

Computer Algebra Independent Integration Tests

Summer 2023 edition

1-Algebraic-functions/1.1-Binomial-products/1.1.3-General/28-
1.1.3.6-g-x^m-a+b-xⁿ-^p-c+d-xⁿ-^q-e+f-xⁿ-^r

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September 6, 2023

Compiled on September 6, 2023 at 2:56am

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CHAPTER 1

INTRODUCTION

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This report gives the result of running the computer algebra independent integration test. The download section in on the main webpage contains links to download the problems in plain text format used for all CAS systems. The number of integrals in this report is [46]. This is test number [28].

1.1 Listing of CAS systems tested

The following are the CAS systems tested:

1. Mathematica 13.3.1 (August 16, 2023) on windows 10.
2. Rubi 4.16.1 (Dec 19, 2018) on Mathematica 13.3 on windows 10
3. Maple 2023.1 (July, 12, 2023) on windows 10.
4. Maxima 5.47 (June 1, 2023) using Lisp SBCL 2.3.0 on Linux via sagemath 10.1 (Aug 20, 2023).
5. FriCAS 1.3.9 (July 8, 2023) based on sbcl 2.3.0 on Linux via sagemath 10.1 (Aug 20, 2023).
6. Giac/Xcas 1.9.0-57 (June 26, 2023) on Linux via sagemath 10.1 (Aug 20, 2023).
7. Sympy 1.12 (May 10, 2023) Using Python 3.11.3 on Linux.
8. Mupad using Matlab 2021a with Symbolic Math Toolbox Version 8.7 on windows 10.

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

Sympy was run directly in Python not via sagemath.

1.2 Results

Important note: A number of problems in this test suite have no antiderivative in closed form. This means the antiderivative of these integrals can not be expressed in terms of elementary, special functions or `Hypergeometric2F1` functions. `RootSum` and `RootOf` are not allowed. If a CAS returns the above integral unevaluated within the time limit, then the result is counted as passed and assigned an A grade.

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

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

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

System	% solved	% Failed
Rubi	100.00 (46)	0.00 (0)
Mathematica	100.00 (46)	0.00 (0)
Sympy	50.00 (23)	50.00 (23)
Maple	26.09 (12)	73.91 (34)
Fricas	26.09 (12)	73.91 (34)
Mupad	26.09 (12)	73.91 (34)
Giac	26.09 (12)	73.91 (34)
Maxima	26.09 (12)	73.91 (34)

Table 1.1: Percentage solved for each CAS

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

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

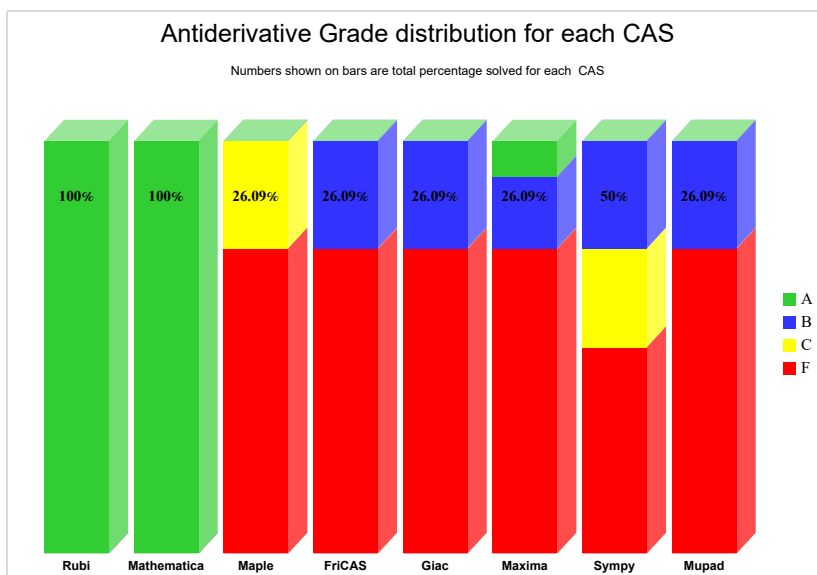
Table 1.2: Description of grading applied to integration result

Grading is implemented for all CAS systems. Based on the above, the following table summarizes the grading for this test suite.

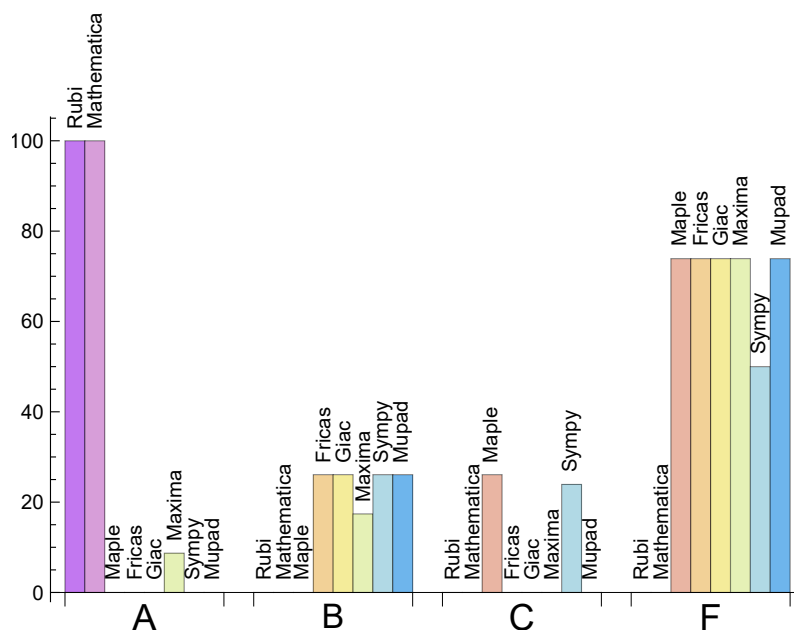
System	% A grade	% B grade	% C grade	% F grade
Rubi	100.000	0.000	0.000	0.000
Mathematica	100.000	0.000	0.000	0.000
Maxima	8.696	17.391	0.000	73.913
Maple	0.000	0.000	26.087	73.913
Fricas	0.000	26.087	0.000	73.913
Giac	0.000	26.087	0.000	73.913
Mupad	0.000	26.087	0.000	73.913
Sympy	0.000	26.087	23.913	50.000

Table 1.3: Antiderivative Grade distribution of each CAS

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



The figure below compares the grades of the CAS systems.



The following table shows the distribution of the different types of failures for each CAS. There are 3 types failures. The first is when CAS returns the input within the time limit, which means it could not solve it. This is the typical failure and given as **F**.

The second failure is due to time out. CAS could not solve the integral within the 3 minutes time limit which is assigned. This is assigned **F(-1)**.

The third is due to an exception generated, indicated as **F(-2)**. This most likely indicates an interface problem between sagemath and the CAS (applicable only to FriCAS, Maxima

and Giac) or it could be an indication of an internal error in the CAS itself. This type of error requires more investigation to determine the cause.

System	Number failed	Percentage normal failure	Percentage time-out failure	Percentage exception failure
Rubi	0	0.00	0.00	0.00
Mathematica	0	0.00	0.00	0.00
Sympy	23	8.70	52.17	39.13
Fricas	34	100.00	0.00	0.00
Maple	34	100.00	0.00	0.00
Mupad	34	0.00	100.00	0.00
Giac	34	97.06	0.00	2.94
Maxima	34	100.00	0.00	0.00

Table 1.4: Failure statistics for each CAS

1.3 Time and leaf size Performance

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

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

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

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

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

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

System	Mean time (sec)
Maxima	0.24
Rubi	0.29
Fricas	0.42
Giac	0.58
Mathematica	0.59
Maple	4.21
Mupad	9.90
Sympy	13.45

Table 1.5: Time performance for each CAS

System	Mean size	Normalized mean	Median size	Normalized median
Mathematica	163.46	0.72	153.50	0.77
Rubi	237.96	1.00	211.50	1.00
Maxima	443.75	2.04	398.00	2.14
Mupad	1031.33	4.35	838.50	4.42
Fricas	3297.67	12.75	2178.50	11.51
Maple	5623.75	21.22	3658.00	19.19
Giac	34300.83	123.55	19913.00	103.63
Sympy	43850.17	156.72	5176.00	29.24

Table 1.6: Leaf size performance for each CAS

1.4 Performance based on number of rules Rubi used

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

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

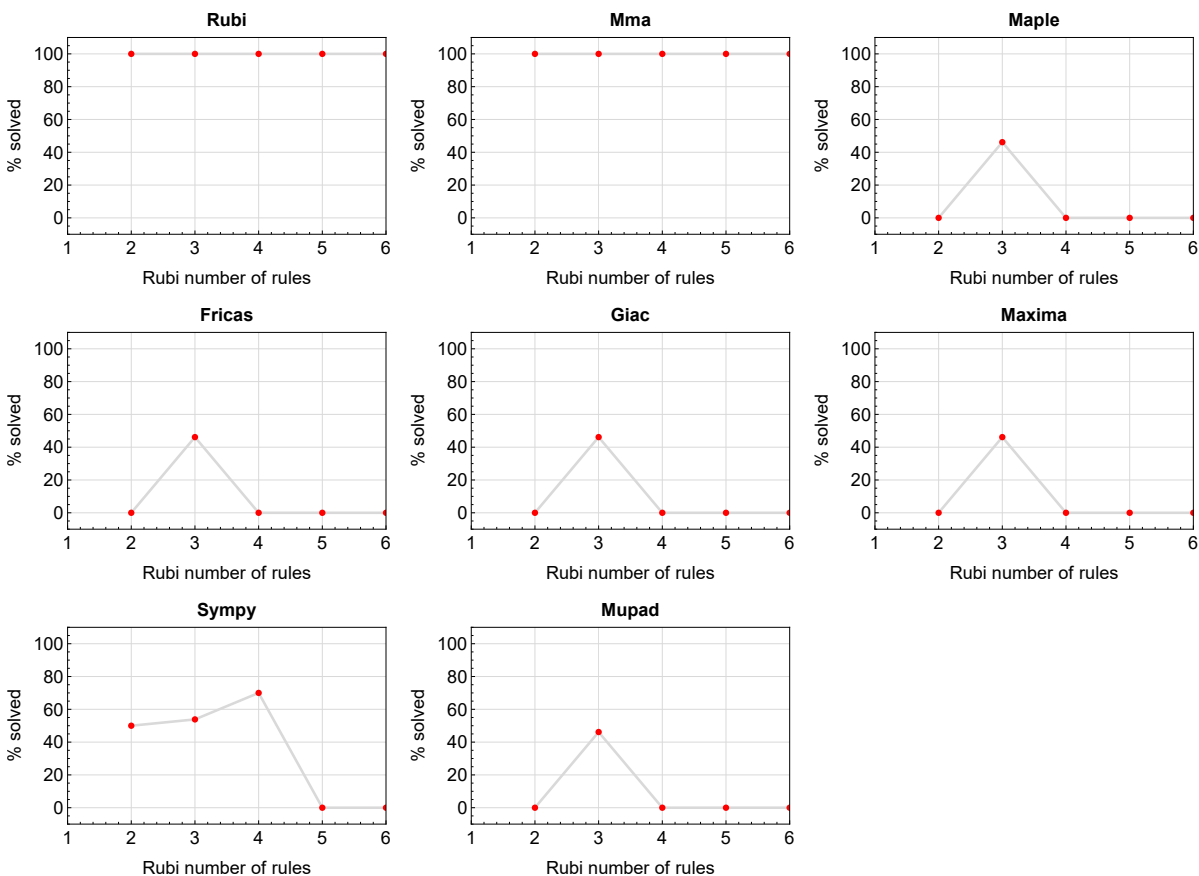


Figure 1.1: Solving statistics per number of Rubi rules used

1.5 Performance based on number of steps Rubi used

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

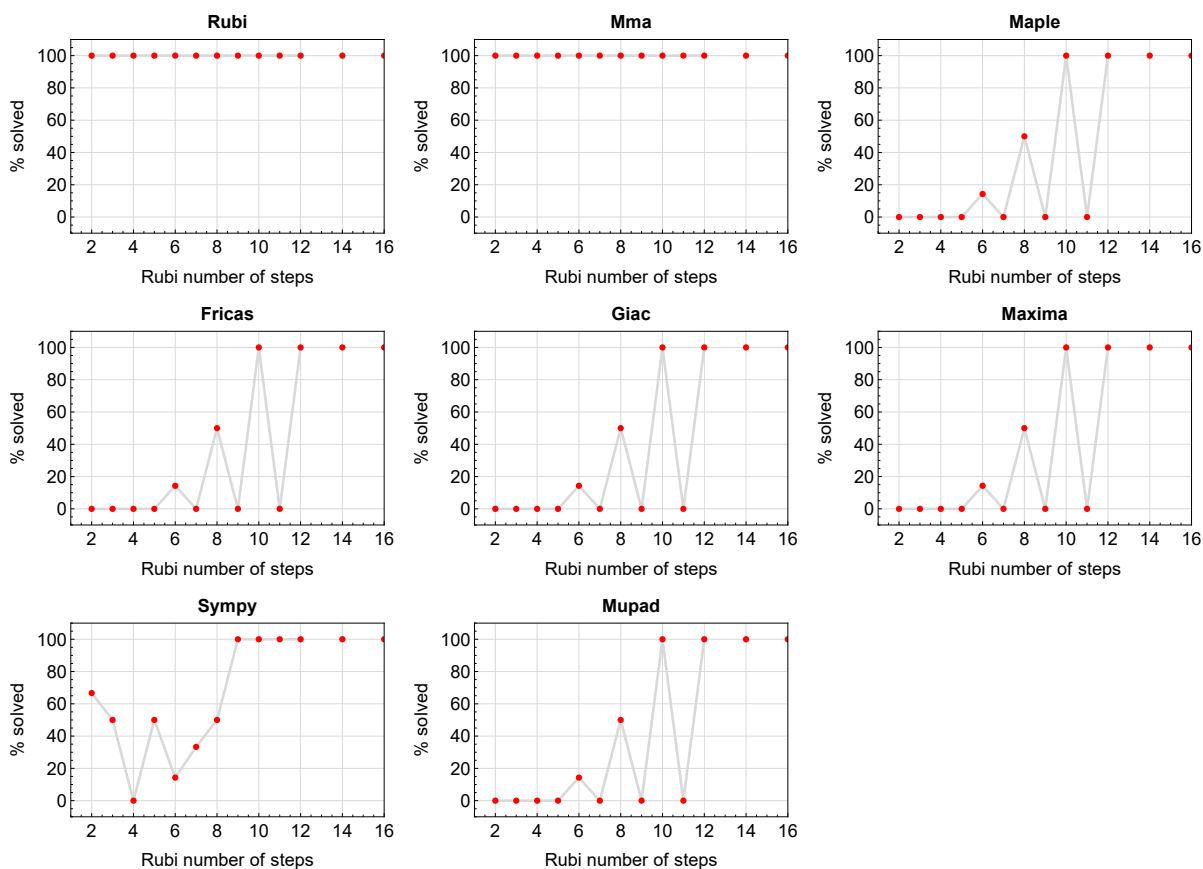


Figure 1.2: Solving statistics per number of Rubi steps used

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

1.6 Solved integrals histogram based on leaf size of result

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

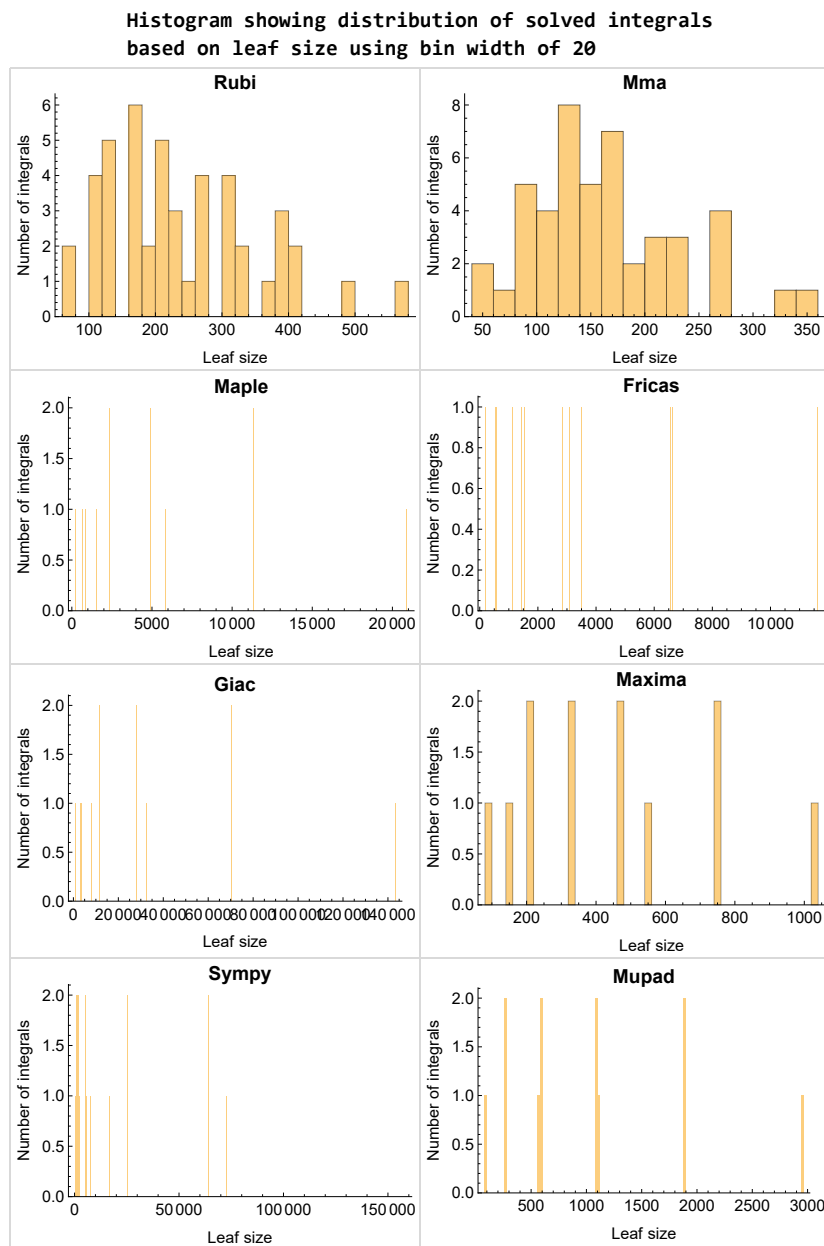


Figure 1.3: Solved integrals based on leaf size distribution

1.7 Solved integrals histogram based on CPU time used

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

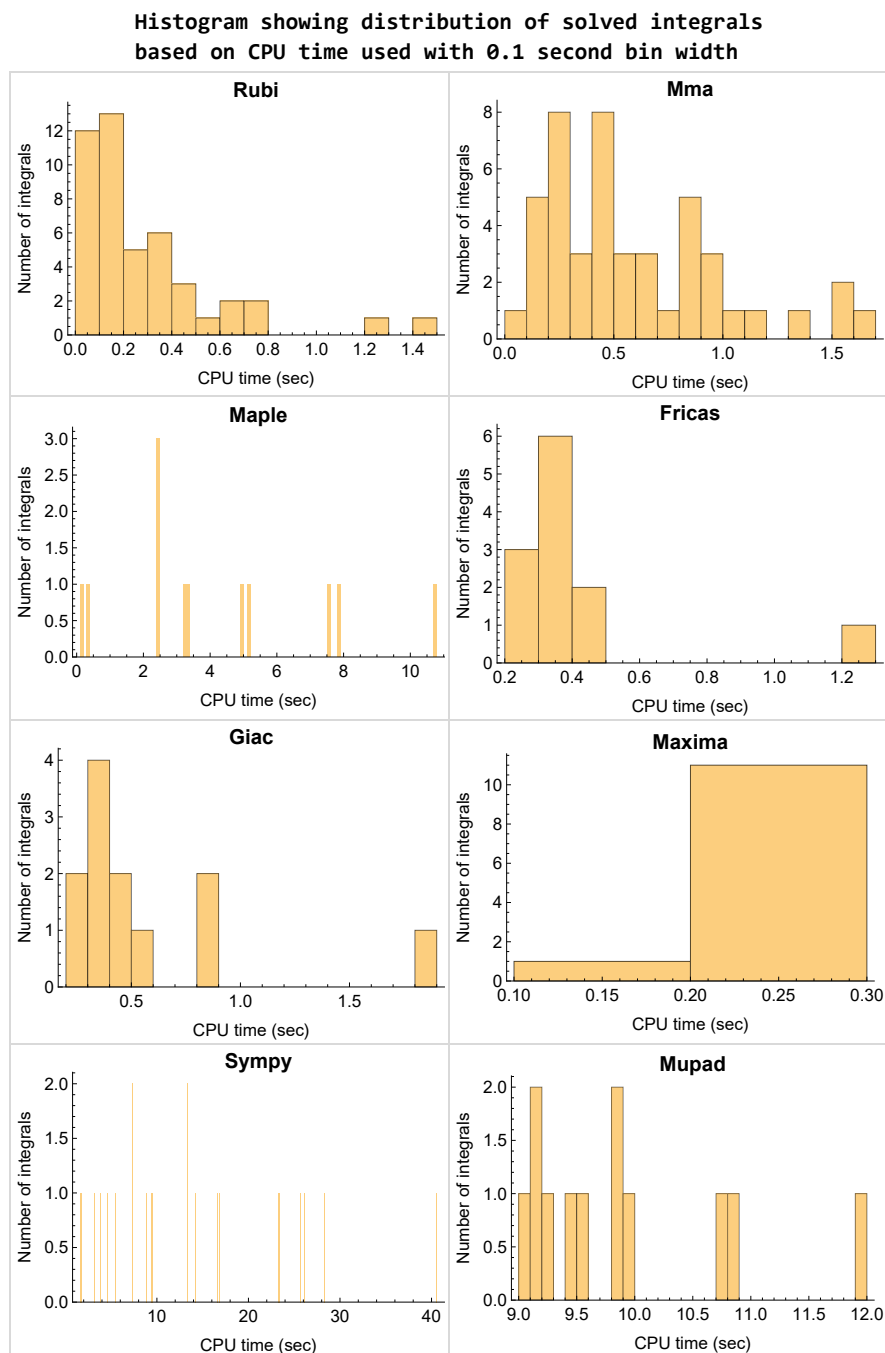


Figure 1.4: Solved integrals histogram based on CPU time used

1.8 Leaf size vs. CPU time used

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

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

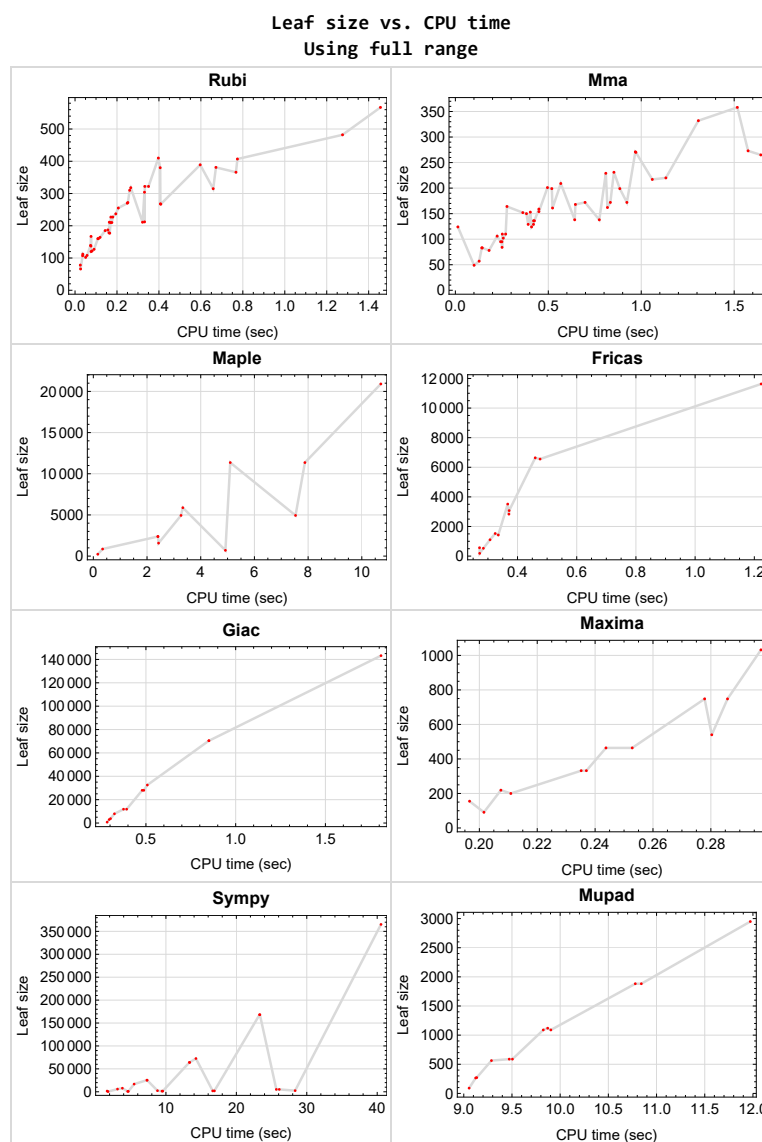


Figure 1.5: Leaf size vs. CPU time. Full range

1.9 list of integrals with no known antiderivative

{}

1.10 List of integrals solved by CAS but has no known antiderivative

Rubi {}

Mathematica {}

Maple {}

Maxima {}

Fricas {}

Sympy {}

Giac {}

Mupad {}

1.11 list of integrals solved by CAS but failed verification

The following are integrals solved by CAS but the verification phase failed to verify the anti-derivative produced is correct. This does not necessarily mean that the anti-derivative is wrong as additional methods of verification might be needed, or more time is needed (3 minutes time limit was used). These integrals are listed here to make it possible to do further investigation to determine why the result could not be verified.

Rubi {}

Mathematica {}

Maple {1, 2, 3, 4, 8, 9, 10, 11, 15, 16, 17, 18}

Maxima Verification phase not currently implemented.

Fricas Verification phase not currently implemented.

Sympy Verification phase not currently implemented.

Giac Verification phase not currently implemented.

Mupad Verification phase not currently implemented.

1.12 Timing

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

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

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

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

1.13 Verification

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

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

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

1.14 Important notes about some of the results

Important note about Maxima results

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

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

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

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

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

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

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

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

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

Important note about FriCAS result

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

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

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

Important note about finding leaf size of antiderivative

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

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

```
def tree_size(expr):
    r"""
    Return the tree size of this expression.
    """
    if expr not in SR:
        # deal with lists, tuples, vectors
        return 1 + sum(tree_size(a) for a in expr)
    expr = SR(expr)
```

```
x, aa = expr.operator(), expr.operands()
if x is None:
    return 1
else:
    return 1 + sum(tree_size(a) for a in aa)
```

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

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

except Exception as ee:
    leafCount =1
```

Important note about Mupad results

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

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

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

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

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

1.15 Design of the test system

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



High level overview of the CAS independent integration test build system

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

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

The following fields are present only in *Rubi Table file*

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

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June 27, 2023
Design v1.0

CHAPTER 2

DETAILED SUMMARY TABLES OF RESULTS

2.1	List of integrals sorted by grade for each CAS	22
2.2	Detailed conclusion table per each integral for all CAS systems	25
2.3	Detailed conclusion table specific for Rubi results	35

2.1 List of integrals sorted by grade for each CAS

Rubi	22
Mma	22
Maple	23
Fricas	23
Maxima	23
Giac	24
Mupad	24
Sympy	24

Rubi

A grade { 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46 }

B grade { }

C grade { }

F normal fail { }

F(-1) timedout fail { }

F(-2) exception fail { }

Mma

A grade { 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46 }

B grade { }

C grade { }

F normal fail { }

F(-1) timedout fail { }

F(-2) exception fail { }

Maple

A grade { }

B grade { }

C grade { 1, 2, 3, 4, 8, 9, 10, 11, 15, 16, 17, 18 }

F normal fail { 5, 6, 7, 12, 13, 14, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46 }

F(-1) timeout fail { }

F(-2) exception fail { }

Fricas

A grade { }

B grade { 1, 2, 3, 4, 8, 9, 10, 11, 15, 16, 17, 18 }

C grade { }

F normal fail { 5, 6, 7, 12, 13, 14, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46 }

F(-1) timeout fail { }

F(-2) exception fail { }

Maxima

A grade { 3, 4, 11, 18 }

B grade { 1, 2, 8, 9, 10, 15, 16, 17 }

C grade { }

F normal fail { 5, 6, 7, 12, 13, 14, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46 }

F(-1) timeout fail { }

F(-2) exception fail { }

Giac**A grade** { }**B grade** { 1, 2, 3, 4, 8, 9, 10, 11, 15, 16, 17, 18 }**C grade** { }**F normal fail** { 5, 6, 7, 12, 13, 14, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 43, 44, 45, 46 }**F(-1) timeout fail** { }**F(-2) exception fail** { 42 }**Mupad****A grade** { }**B grade** { 1, 2, 3, 4, 8, 9, 10, 11, 15, 16, 17, 18 }**C grade** { }**F normal fail** { }**F(-1) timeout fail** { 5, 6, 7, 12, 13, 14, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46 }**F(-2) exception fail** { }**Sympy****A grade** { }**B grade** { 1, 2, 3, 4, 8, 9, 10, 11, 15, 16, 17, 18 }**C grade** { 5, 6, 12, 19, 21, 22, 23, 24, 25, 31, 32 }**F normal fail** { 13, 30 }**F(-1) timeout fail** { 7, 14, 20, 29, 35, 36, 37, 38, 40, 42, 45, 46 }**F(-2) exception fail** { 26, 27, 28, 33, 34, 39, 41, 43, 44 }

2.2 Detailed conclusion table per each integral for all CAS systems

Detailed conclusion table per each integral is given by the table below. The elapsed time is in seconds. For failed result it is given as **F(-1)** if the failure was due to timeout. It is given as **F(-2)** if the failure was due to an exception being raised, which could indicate a bug in the system. If the failure was due to integral not being evaluated within the time limit, then it is given as **F**.

In this table, the column **N.S.** means **normalized size** and is defined as $\frac{\text{antiderivative leaf size}}{\text{optimal antiderivative leaf size}}$. To make the table fit the page, the name **Mathematica** was abbreviated to **MMA**.

Problem 1	Optimal	Rubi	MMA	Maple	Maxima	Fricas	Sympy	Giac	Mupad
grade	N/A	A	A	C	B	B	B	B	B
verified	N/A	Yes	Yes	No	TBD	TBD	TBD	TBD	TBD
size	210	210	172	4939	464	3073	64068	27992	1089
N.S.	1	1.00	0.82	23.52	2.21	14.63	305.09	133.30	5.19
time (sec)	N/A	0.176	0.923	7.531	0.253	0.372	13.378	0.488	9.903

Problem 2	Optimal	Rubi	MMA	Maple	Maxima	Fricas	Sympy	Giac	Mupad
grade	N/A	A	A	C	B	B	B	B	B
verified	N/A	Yes	Yes	No	TBD	TBD	TBD	TBD	TBD
size	160	160	129	2377	332	1524	25315	11834	588
N.S.	1	1.00	0.81	14.86	2.08	9.52	158.22	73.96	3.68
time (sec)	N/A	0.109	0.392	2.404	0.237	0.325	7.330	0.375	9.505

Problem 3	Optimal	Rubi	MMA	Maple	Maxima	Fricas	Sympy	Giac	Mupad
grade	N/A	A	A	C	A	B	B	B	B
verified	N/A	Yes	Yes	No	TBD	TBD	TBD	TBD	TBD
size	108	108	84	858	200	562	7796	3764	271
N.S.	1	1.00	0.78	7.94	1.85	5.20	72.19	34.85	2.51
time (sec)	N/A	0.057	0.251	0.346	0.211	0.272	3.819	0.303	9.134

Problem 4	Optimal	Rubi	MMA	Maple	Maxima	Fricas	Sympy	Giac	Mupad
grade	N/A	A	A	C	A	B	B	B	B
verified	N/A	Yes	Yes	No	TBD	TBD	TBD	TBD	TBD
size	66	66	49	229	91	185	1498	763	91
N.S.	1	1.00	0.74	3.47	1.38	2.80	22.70	11.56	1.38
time (sec)	N/A	0.026	0.101	0.167	0.202	0.272	1.658	0.284	9.056

Problem 5	Optimal	Rubi	MMA	Maple	Maxima	Fricas	Sympy	Giac	Mupad
grade	N/A	A	A	F	F	F	C	F	F(-1)
verified	N/A	Yes	Yes	N/A	TBD	TBD	TBD	TBD	TBD
size	120	120	95	0	0	0	872	0	0
N.S.	1	1.00	0.79	0.00	0.00	0.00	7.27	0.00	0.00
time (sec)	N/A	0.077	0.250	0.000	0.000	0.000	4.665	0.000	0.000

Problem 6	Optimal	Rubi	MMA	Maple	Maxima	Fricas	Sympy	Giac	Mupad
grade	N/A	A	A	F	F	F	C	F	F(-1)
verified	N/A	Yes	Yes	N/A	TBD	TBD	TBD	TBD	TBD
size	177	177	110	0	0	0	5176	0	0
N.S.	1	1.00	0.62	0.00	0.00	0.00	29.24	0.00	0.00
time (sec)	N/A	0.165	0.253	0.000	0.000	0.000	26.100	0.000	0.000

Problem 7	Optimal	Rubi	MMA	Maple	Maxima	Fricas	Sympy	Giac	Mupad
grade	N/A	A	A	F	F	F	F(-1)	F	F(-1)
verified	N/A	Yes	Yes	N/A	TBD	TBD	TBD	TBD	TBD
size	228	227	136	0	0	0	0	0	0
N.S.	1	1.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00
time (sec)	N/A	0.171	0.421	0.000	0.000	0.000	0.000	0.000	0.000

Problem 8	Optimal	Rubi	MMA	Maple	Maxima	Fricas	Sympy	Giac	Mupad
grade	N/A	A	A	C	B	B	B	B	B
verified	N/A	Yes	Yes	No	TBD	TBD	TBD	TBD	TBD
size	318	318	273	11356	748	6638	168099	70422	1882
N.S.	1	1.00	0.86	35.71	2.35	20.87	528.61	221.45	5.92
time (sec)	N/A	0.266	1.575	7.880	0.278	0.460	23.345	0.851	10.779

Problem 14	Optimal	Rubi	MMA	Maple	Maxima	Fricas	Sympy	Giac	Mupad
grade	N/A	A	A	F	F	F	F(-1)	F	F(-1)
verified	N/A	Yes	Yes	N/A	TBD	TBD	TBD	TBD	TBD
size	322	322	168	0	0	0	0	0	0
N.S.	1	1.00	0.52	0.00	0.00	0.00	0.00	0.00	0.00
time (sec)	N/A	0.333	0.646	0.000	0.000	0.000	0.000	0.000	0.000

Problem 15	Optimal	Rubi	MMA	Maple	Maxima	Fricas	Sympy	Giac	Mupad
grade	N/A	A	A	C	B	B	B	B	B
verified	N/A	Yes	Yes	No	TBD	TBD	TBD	TBD	TBD
size	410	410	358	20904	1032	11628	365145	143220	2949
N.S.	1	1.00	0.87	50.99	2.52	28.36	890.60	349.32	7.19
time (sec)	N/A	0.397	1.517	10.708	0.297	1.223	40.538	1.810	11.973

Problem 16	Optimal	Rubi	MMA	Maple	Maxima	Fricas	Sympy	Giac	Mupad
grade	N/A	A	A	C	B	B	B	B	B
verified	N/A	Yes	Yes	No	TBD	TBD	TBD	TBD	TBD
size	310	310	265	11356	748	6557	168099	70422	1882
N.S.	1	1.00	0.85	36.63	2.41	21.15	542.25	227.17	6.07
time (sec)	N/A	0.260	1.643	5.100	0.286	0.476	23.291	0.850	10.842

Problem 17	Optimal	Rubi	MMA	Maple	Maxima	Fricas	Sympy	Giac	Mupad
grade	N/A	A	A	C	B	B	B	B	B
verified	N/A	Yes	Yes	No	TBD	TBD	TBD	TBD	TBD
size	210	210	172	4939	464	2833	64068	27992	1089
N.S.	1	1.00	0.82	23.52	2.21	13.49	305.09	133.30	5.19
time (sec)	N/A	0.169	0.834	3.266	0.244	0.371	13.331	0.479	9.825

Problem 18	Optimal	Rubi	MMA	Maple	Maxima	Fricas	Sympy	Giac	Mupad
grade	N/A	A	A	C	A	B	B	B	B
verified	N/A	Yes	Yes	No	TBD	TBD	TBD	TBD	TBD
size	137	137	106	1576	219	1104	16781	7893	563
N.S.	1	1.00	0.77	11.50	1.60	8.06	122.49	57.61	4.11
time (sec)	N/A	0.076	0.225	2.430	0.207	0.307	5.488	0.325	9.287

Problem 19	Optimal	Rubi	MMA	Maple	Maxima	Fricas	Sympy	Giac	Mupad
grade	N/A	A	A	F	F	F	C	F	F(-1)
verified	N/A	Yes	Yes	N/A	TBD	TBD	TBD	TBD	TBD
size	270	270	229	0	0	0	1933	0	0
N.S.	1	1.00	0.85	0.00	0.00	0.00	7.16	0.00	0.00
time (sec)	N/A	0.249	0.809	0.000	0.000	0.000	16.884	0.000	0.000

Problem 20	Optimal	Rubi	MMA	Maple	Maxima	Fricas	Sympy	Giac	Mupad
grade	N/A	A	A	F	F	F	F(-1)	F	F(-1)
verified	N/A	Yes	Yes	N/A	TBD	TBD	TBD	TBD	TBD
size	394	389	217	0	0	0	0	0	0
N.S.	1	0.99	0.55	0.00	0.00	0.00	0.00	0.00	0.00
time (sec)	N/A	0.597	1.060	0.000	0.000	0.000	0.000	0.000	0.000

Problem 21	Optimal	Rubi	MMA	Maple	Maxima	Fricas	Sympy	Giac	Mupad
grade	N/A	A	A	F	F	F	C	F	F(-1)
verified	N/A	Yes	Yes	N/A	TBD	TBD	TBD	TBD	TBD
size	380	380	332	0	0	0	2463	0	0
N.S.	1	1.00	0.87	0.00	0.00	0.00	6.48	0.00	0.00
time (sec)	N/A	0.406	1.307	0.000	0.000	0.000	28.346	0.000	0.000

Problem 22	Optimal	Rubi	MMA	Maple	Maxima	Fricas	Sympy	Giac	Mupad
grade	N/A	A	A	F	F	F	C	F	F(-1)
verified	N/A	Yes	Yes	N/A	TBD	TBD	TBD	TBD	TBD
size	272	272	231	0	0	0	1933	0	0
N.S.	1	1.00	0.85	0.00	0.00	0.00	7.11	0.00	0.00
time (sec)	N/A	0.252	0.853	0.000	0.000	0.000	16.644	0.000	0.000

Problem 23	Optimal	Rubi	MMA	Maple	Maxima	Fricas	Sympy	Giac	Mupad
grade	N/A	A	A	F	F	F	C	F	F(-1)
verified	N/A	Yes	Yes	N/A	TBD	TBD	TBD	TBD	TBD
size	187	187	154	0	0	0	1402	0	0
N.S.	1	1.00	0.82	0.00	0.00	0.00	7.50	0.00	0.00
time (sec)	N/A	0.157	0.449	0.000	0.000	0.000	9.442	0.000	0.000

2.3 Detailed conclusion table specific for Rubi results

The following table is specific to Rubi only. It gives additional statistics for each integral. the column **steps** is the number of steps used by Rubi to obtain the antiderivative. The **rules** column is the number of unique rules used. The **integrand size** column is the leaf size of the integrand. Finally the ratio $\frac{\text{number of rules}}{\text{integrand size}}$ is also given. The larger this ratio is, the harder the integral is to solve. In this test file, problem number [44] had the largest ratio of [.193500000000000005]

Table 2.1: Rubi specific breakdown of results for each integral

#	grade	number of steps used	number of unique rules	normalized antiderivative leaf size	integrand leaf size	$\frac{\text{number of rules}}{\text{integrand leaf size}}$
1	A	12	3	1.00	29	0.103
2	A	10	3	1.00	29	0.103
3	A	8	3	1.00	27	0.111
4	A	6	3	1.00	20	0.150
5	A	5	4	1.00	29	0.138
6	A	3	3	1.00	29	0.103
7	A	3	3	1.00	29	0.103
8	A	14	3	1.00	31	0.097
9	A	12	3	1.00	31	0.097
10	A	10	3	1.00	29	0.103
11	A	8	3	1.00	22	0.136
12	A	7	4	1.00	31	0.129
13	A	6	5	1.00	31	0.161
14	A	4	3	1.00	31	0.097
15	A	16	3	1.00	31	0.097
16	A	14	3	1.00	31	0.097
17	A	12	3	1.00	29	0.103
18	A	10	3	1.00	22	0.136
19	A	9	4	1.00	31	0.129
20	A	8	5	0.99	31	0.161
21	A	11	4	1.00	31	0.129
22	A	9	4	1.00	31	0.129
23	A	7	4	1.00	31	0.129
24	A	5	4	1.00	29	0.138

Continued on next page

Table 2.1 – continued from previous page

#	grade	number of steps used	number of unique rules	normalized antiderivative leaf size	integrand leaf size	$\frac{\text{number of rules}}{\text{integrand leaf size}}$
25	A	2	2	1.00	22	0.091
26	A	4	2	1.00	31	0.065
27	A	5	3	1.00	31	0.097
28	A	6	3	1.00	31	0.097
29	A	8	5	0.99	31	0.161
30	A	6	5	1.00	31	0.161
31	A	3	3	1.00	29	0.103
32	A	2	2	1.00	22	0.091
33	A	5	3	1.00	31	0.097
34	A	6	3	1.00	31	0.097
35	A	7	3	1.00	31	0.097
36	A	4	3	1.00	31	0.097
37	A	3	3	1.00	29	0.103
38	A	2	2	1.00	22	0.091
39	A	6	3	1.00	31	0.097
40	A	7	3	1.00	31	0.097
41	A	7	3	1.00	31	0.097
42	A	4	4	0.94	29	0.138
43	A	6	5	1.00	31	0.161
44	A	7	6	1.00	31	0.194
45	A	4	4	1.00	47	0.085
46	A	4	4	1.20	55	0.073

CHAPTER 3

LISTING OF INTEGRALS

3.1	$\int (ex)^m (a + bx^n)^3 (A + Bx^n) (c + dx^n) dx \dots\dots\dots$	39
3.2	$\int (ex)^m (a + bx^n)^2 (A + Bx^n) (c + dx^n) dx \dots\dots\dots$	102
3.3	$\int (ex)^m (a + bx^n) (A + Bx^n) (c + dx^n) dx \dots\dots\dots$	131
3.4	$\int (ex)^m (A + Bx^n) (c + dx^n) dx \dots\dots\dots$	143
3.5	$\int \frac{(ex)^m (A+Bx^n)(c+dx^n)}{a+bx^n} dx \dots\dots\dots$	149
3.6	$\int \frac{(ex)^m (A+Bx^n)(c+dx^n)}{(a+bx^n)^2} dx \dots\dots\dots$	154
3.7	$\int \frac{(ex)^m (A+Bx^n)(c+dx^n)}{(a+bx^n)^3} dx \dots\dots\dots$	161
3.8	$\int (ex)^m (a + bx^n)^3 (A + Bx^n) (c + dx^n)^2 dx \dots\dots\dots$	166
3.9	$\int (ex)^m (a + bx^n)^2 (A + Bx^n) (c + dx^n)^2 dx \dots\dots\dots$	312
3.10	$\int (ex)^m (a + bx^n) (A + Bx^n) (c + dx^n)^2 dx \dots\dots\dots$	380
3.11	$\int (ex)^m (A + Bx^n) (c + dx^n)^2 dx \dots\dots\dots$	409
3.12	$\int \frac{(ex)^m (A+Bx^n)(c+dx^n)^2}{a+bx^n} dx \dots\dots\dots$	419
3.13	$\int \frac{(ex)^m (A+Bx^n)(c+dx^n)^2}{(a+bx^n)^2} dx \dots\dots\dots$	425
3.14	$\int \frac{(ex)^m (A+Bx^n)(c+dx^n)^2}{(a+bx^n)^3} dx \dots\dots\dots$	431
3.15	$\int (ex)^m (a + bx^n)^3 (A + Bx^n) (c + dx^n)^3 dx \dots\dots\dots$	437
3.16	$\int (ex)^m (a + bx^n)^2 (A + Bx^n) (c + dx^n)^3 dx \dots\dots\dots$	748
3.17	$\int (ex)^m (a + bx^n) (A + Bx^n) (c + dx^n)^3 dx \dots\dots\dots$	894
3.18	$\int (ex)^m (A + Bx^n) (c + dx^n)^3 dx \dots\dots\dots$	957
3.19	$\int \frac{(ex)^m (A+Bx^n)(c+dx^n)^3}{a+bx^n} dx \dots\dots\dots$	978
3.20	$\int \frac{(ex)^m (A+Bx^n)(c+dx^n)^3}{(a+bx^n)^2} dx \dots\dots\dots$	985
3.21	$\int \frac{(ex)^m (a+bx^n)^4 (A+Bx^n)}{c+dx^n} dx \dots\dots\dots$	991
3.22	$\int \frac{(ex)^m (a+bx^n)^3 (A+Bx^n)}{c+dx^n} dx \dots\dots\dots$	1000
3.23	$\int \frac{(ex)^m (a+bx^n)^2 (A+Bx^n)}{c+dx^n} dx \dots\dots\dots$	1007

3.24	$\int \frac{(ex)^m(a+bx^n)(A+Bx^n)}{c+dx^n} dx$	1013
3.25	$\int \frac{(ex)^m(A+Bx^n)}{c+dx^n} dx$	1018
3.26	$\int \frac{(ex)^m(A+Bx^n)}{(a+bx^n)(c+dx^n)} dx$	1022
3.27	$\int \frac{(ex)^m(A+Bx^n)}{(a+bx^n)^2(c+dx^n)} dx$	1026
3.28	$\int \frac{(ex)^m(A+Bx^n)}{(a+bx^n)^3(c+dx^n)} dx$	1030
3.29	$\int \frac{(ex)^m(a+bx^n)^3(A+Bx^n)}{(c+dx^n)^2} dx$	1036
3.30	$\int \frac{(ex)^m(a+bx^n)^2(A+Bx^n)}{(c+dx^n)^2} dx$	1042
3.31	$\int \frac{(ex)^m(a+bx^n)(A+Bx^n)}{(c+dx^n)^2} dx$	1048
3.32	$\int \frac{(ex)^m(A+Bx^n)}{(c+dx^n)^2} dx$	1055
3.33	$\int \frac{(ex)^m(A+Bx^n)}{(a+bx^n)(c+dx^n)^2} dx$	1060
3.34	$\int \frac{(ex)^m(A+Bx^n)}{(a+bx^n)^2(c+dx^n)^2} dx$	1064
3.35	$\int \frac{(ex)^m(A+Bx^n)}{(a+bx^n)^3(c+dx^n)^2} dx$	1069
3.36	$\int \frac{(ex)^m(a+bx^n)^2(A+Bx^n)}{(c+dx^n)^3} dx$	1076
3.37	$\int \frac{(ex)^m(a+bx^n)(A+Bx^n)}{(c+dx^n)^3} dx$	1082
3.38	$\int \frac{(ex)^m(A+Bx^n)}{(c+dx^n)^3} dx$	1087
3.39	$\int \frac{(ex)^m(A+Bx^n)}{(a+bx^n)(c+dx^n)^3} dx$	1091
3.40	$\int \frac{(ex)^m(A+Bx^n)}{(a+bx^n)^2(c+dx^n)^3} dx$	1097
3.41	$\int (ex)^m (a+bx^n)^p (A+Bx^n) (c+dx^n)^q dx$	1103
3.42	$\int (ex)^m (a+bx^n)^p (A+Bx^n) (c+dx^n) dx$	1108
3.43	$\int \frac{(ex)^m(a+bx^n)^p(A+Bx^n)}{c+dx^n} dx$	1113
3.44	$\int \frac{(ex)^m(a+bx^n)^p(A+Bx^n)}{(c+dx^n)^2} dx$	1118
3.45	$\int \frac{(-a+bx^{n/2})^{-1+\frac{1}{n}}(a+bx^{n/2})^{-1+\frac{1}{n}}(c+dx^n)}{x^2} dx$	1124
3.46	$\int \frac{(-a+bx^{n/2})^{\frac{1-n}{n}}(a+bx^{n/2})^{\frac{1-n}{n}}(c+dx^n)}{x^2} dx$	1129

3.1 $\int (ex)^m (a + bx^n)^3 (A + Bx^n) (c + dx^n) dx$

Optimal result	39
Rubi [A] (verified)	39
Mathematica [A] (verified)	42
Maple [C] (warning: unable to verify)	42
Fricas [B] (verification not implemented)	45
Sympy [B] (verification not implemented)	46
Maxima [B] (verification not implemented)	83
Giac [B] (verification not implemented)	84
Mupad [B] (verification not implemented)	101

Optimal result

Integrand size = 29, antiderivative size = 210

$$\int (ex)^m (a + bx^n)^3 (A + Bx^n) (c + dx^n) dx = \frac{a^2(3Abc + aBc + aAd)x^{1+n}(ex)^m}{1 + m + n} + \frac{a(3Ab(bc + ad) + aB(3bc + ad))x^{1+2n}(ex)^m}{1 + m + 2n} + \frac{b(3aB(bc + ad) + Ab(bc + 3ad))x^{1+3n}(ex)^m}{1 + m + 3n} + \frac{b^2(bBc + Abd + 3aBd)x^{1+4n}(ex)^m}{1 + m + 4n} + \frac{b^3Bdx^{1+5n}(ex)^m}{1 + m + 5n} + \frac{a^3Ac(ex)^{1+m}}{e(1 + m)}$$

[Out] $a^2*(A*a*d+3*A*b*c+B*a*c)*x^{(1+n)}*(e*x)^m/(1+m+n)+a*(3*A*b*(a*d+b*c)+a*B*(a*d+3*b*c))*x^{(1+2*n)}*(e*x)^m/(1+m+2*n)+b*(3*a*B*(a*d+b*c)+A*b*(3*a*d+b*c))*x^{(1+3*n)}*(e*x)^m/(1+m+3*n)+b^2*(A*b*d+3*B*a*d+B*b*c)*x^{(1+4*n)}*(e*x)^m/(1+m+4*n)+b^3*B*d*x^{(1+5*n)}*(e*x)^m/(1+m+5*n)+a^3*A*c*(e*x)^{(1+m)}/e/(1+m)$

Rubi [A] (verified)

Time = 0.18 (sec) , antiderivative size = 210, normalized size of antiderivative = 1.00, number of steps used = 12, number of rules used = 3, $\frac{\text{number of rules}}{\text{integrand size}} = 0.103$, Rules used

= {584, 20, 30}

$$\int (ex)^m (a + bx^n)^3 (A + Bx^n) (c + dx^n) dx = \frac{a^3 Ac (ex)^{m+1}}{e(m+1)} + \frac{a^2 x^{n+1} (ex)^m (aAd + aBc + 3Abc)}{m+n+1} + \frac{b^2 x^{4n+1} (ex)^m (3aBd + Abd + bBc)}{m+4n+1} + \frac{ax^{2n+1} (ex)^m (3Ab(ad+bc) + aB(ad+3bc))}{m+2n+1} + \frac{bx^{3n+1} (ex)^m (Ab(3ad+bc) + 3aB(ad+bc))}{m+3n+1} + \frac{b^3 Bdx^{5n+1} (ex)^m}{m+5n+1}$$

[In] Int[(e*x)^m*(a + b*x^n)^3*(A + B*x^n)*(c + d*x^n), x]

[Out] (a^2*(3*A*b*c + a*B*c + a*A*d)*x^(1 + n)*(e*x)^m)/(1 + m + n) + (a*(3*A*b*(b*c + a*d) + a*B*(3*b*c + a*d))*x^(1 + 2*n)*(e*x)^m)/(1 + m + 2*n) + (b*(3*a*B*(b*c + a*d) + A*b*(b*c + 3*a*d))*x^(1 + 3*n)*(e*x)^m)/(1 + m + 3*n) + (b^2*(b*B*c + A*b*d + 3*a*B*d)*x^(1 + 4*n)*(e*x)^m)/(1 + m + 4*n) + (b^3*B*d*x^(1 + 5*n)*(e*x)^m)/(1 + m + 5*n) + (a^3*A*c*(e*x)^(1 + m))/(e*(1 + m))

Rule 20

Int[(u_.)*((a_.)*(v_))^(m_.)*((b_.)*(v_))^(n_.), x_Symbol] := Dist[b^IntPart[n]*((b*v)^FracPart[n]/(a^IntPart[n]*(a*v)^FracPart[n])), Int[u*(a*v)^(m+n)], x], x] /; FreeQ[{a, b, m, n}, x] && !IntegerQ[m] && !IntegerQ[n] && !IntegerQ[m+n]

Rule 30

Int[(x_)^(m_.), x_Symbol] := Simp[x^(m+1)/(m+1), x] /; FreeQ[m, x] && NeQ[m, -1]

Rule 584

Int[((g_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_.)*((c_) + (d_.)*(x_)^(n_))^(q_.)*((e_) + (f_.)*(x_)^(n_))^(r_.), x_Symbol] := Int[ExpandIntegrand[(g*x)^m*(a + b*x^n)^p*(c + d*x^n)^q*(e + f*x^n)^r, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n}, x] && IGtQ[p, -2] && IGtQ[q, 0] && IGtQ[r, 0]

Rubi steps

$$\begin{aligned}
\text{integral} &= \int (a^3 Ac(ex)^m + a^2(3Abc + aBc + aAd)x^n(ex)^m \\
&\quad + a(3Ab(bc + ad) + aB(3bc + ad))x^{2n}(ex)^m \\
&\quad + b(3aB(bc + ad) + Ab(bc + 3ad))x^{3n}(ex)^m + b^2(bBc + Abd + 3aBd)x^{4n}(ex)^m \\
&\quad + b^3Bdx^{5n}(ex)^m) dx \\
&= \frac{a^3 Ac(ex)^{1+m}}{e(1+m)} + (b^3 Bd) \int x^{5n}(ex)^m dx + (a^2(3Abc + aBc + aAd)) \int x^n(ex)^m dx \\
&\quad + (b^2(bBc + Abd + 3aBd)) \int x^{4n}(ex)^m dx \\
&\quad + (a(3Ab(bc + ad) + aB(3bc + ad))) \int x^{2n}(ex)^m dx \\
&\quad + (b(3aB(bc + ad) + Ab(bc + 3ad))) \int x^{3n}(ex)^m dx \\
&= \frac{a^3 Ac(ex)^{1+m}}{e(1+m)} + (b^3 Bdx^{-m}(ex)^m) \int x^{m+5n} dx \\
&\quad + (a^2(3Abc + aBc + aAd)x^{-m}(ex)^m) \int x^{m+n} dx \\
&\quad + (b^2(bBc + Abd + 3aBd)x^{-m}(ex)^m) \int x^{m+4n} dx \\
&\quad + (a(3Ab(bc + ad) + aB(3bc + ad))x^{-m}(ex)^m) \int x^{m+2n} dx \\
&\quad + (b(3aB(bc + ad) + Ab(bc + 3ad))x^{-m}(ex)^m) \int x^{m+3n} dx \\
&= \frac{a^2(3Abc + aBc + aAd)x^{1+n}(ex)^m}{1+m+n} + \frac{a(3Ab(bc + ad) + aB(3bc + ad))x^{1+2n}(ex)^m}{1+m+2n} \\
&\quad + \frac{b(3aB(bc + ad) + Ab(bc + 3ad))x^{1+3n}(ex)^m}{1+m+3n} \\
&\quad + \frac{b^2(bBc + Abd + 3aBd)x^{1+4n}(ex)^m}{1+m+4n} + \frac{b^3 Bdx^{1+5n}(ex)^m}{1+m+5n} + \frac{a^3 Ac(ex)^{1+m}}{e(1+m)}
\end{aligned}$$

Mathematica [A] (verified)

Time = 0.92 (sec) , antiderivative size = 172, normalized size of antiderivative = 0.82

$$\int (ex)^m (a + bx^n)^3 (A + Bx^n) (c + dx^n) dx = x(ex)^m \left(\frac{a^3 Ac}{1+m} + \frac{a^2(3Abc + aBc + aAd)x^n}{1+m+n} \right. \\ + \frac{a(3Ab(bc + ad) + aB(3bc + ad))x^{2n}}{1+m+2n} \\ + \frac{b(3aB(bc + ad) + Ab(bc + 3ad))x^{3n}}{1+m+3n} \\ \left. + \frac{b^2(bBc + Abd + 3aBd)x^{4n}}{1+m+4n} + \frac{b^3 Bdx^{5n}}{1+m+5n} \right)$$

[In] Integrate[(e*x)^m*(a + b*x^n)^3*(A + B*x^n)*(c + d*x^n),x]

[Out] x*(e*x)^m*((a^3*A*c)/(1 + m) + (a^2*(3*A*b*c + a*B*c + a*A*d)*x^n)/(1 + m + n) + (a*(3*A*b*(b*c + a*d) + a*B*(3*b*c + a*d))*x^(2*n))/(1 + m + 2*n) + (b*(3*a*B*(b*c + a*d) + A*b*(b*c + 3*a*d))*x^(3*n))/(1 + m + 3*n) + (b^2*(b*B*c + A*b*d + 3*a*B*d)*x^(4*n))/(1 + m + 4*n) + (b^3*B*d*x^(5*n))/(1 + m + 5*n))

Maple [C] (warning: unable to verify)

Result contains higher order function than in optimal. Order 9 vs. order 3.

Time = 7.53 (sec) , antiderivative size = 4939, normalized size of antiderivative = 23.52

method	result	size
risch	Expression too large to display	4939
parallelrisch	Expression too large to display	6818

[In] int((e*x)^m*(a+b*x^n)^3*(A+B*x^n)*(c+d*x^n),x,method=_RETURNVERBOSE)

[Out] x*(147*A*b^3*c*m*n^2*(x^n)^3+3*(x^n)^2*d*a^2*b*A+90*B*a*b^2*d*n^4*(x^n)^4+4*B*b^3*c*m^3*n*(x^n)^4+120*B*a*b^2*c*n^4*(x^n)^3+180*B*a^2*b*c*n^4*(x^n)^2+84*B*a^3*c*m^2*n*x^n+144*B*a*b^2*c*m*n*(x^n)^3+132*B*a*b^2*d*m^3*n*(x^n)^4+122*A*b^3*d*m*n^3*(x^n)^4+132*B*a*b^2*d*m*n*(x^n)^4+61*A*b^3*d*m^2*n^3*(x^n)^4+366*B*a*b^2*d*m*n^3*(x^n)^4+39*A*a^2*b*d*m^4*n*(x^n)^2+30*B*a*b^2*d*m^3*(x^n)^4+177*A*a*b^2*c*n^2*(x^n)^2+14*A*a^3*d*m^4*n*x^n+15*B*a*b^2*c*m^4*(x^n)^3+216*B*a*b^2*c*m^2*n*(x^n)^3+44*A*b^3*d*m^3*n*(x^n)^4+177*B*a^2*b*c*m^3*n^2*(x^n)^2+234*B*a^2*b*c*m^2*n*(x^n)^2+531*B*a^2*b*c*m*n^2*(x^n)^2+144*B*a^2*b*d*m*n*(x^n)^3+441*A*a*b^2*d*m^2*n^2*(x^n)^3+234*A*a*b^2*c*m^2*n*(x^n)^2+147*B*a^2*b*d*m^3*n^2*(x^n)^3+234*B*a^2*b*d*m^2*n^3*(x^n)^3+308*B*a^3*c*m*n^3*x^n+24*B*b^3*d*m*n^4*(x^n)^5+30*A*b^3*d*m*n^4*(x^n)^4+531*A*a*b^2*c*m^2*n^2*(x^n)^2+30*A*a^2*b*c*m^2*x^n+213*A*a^2*b*c*n^2*x^n+213*B*a^3*c*m^2

$$\begin{aligned}
& n^2 x^n + 15 A a^2 b^2 c^2 (x^n)^{2m+213} A a^3 d^2 m^2 x^n + 30 A a^2 b^2 c^2 m^3 x^n + \\
& 56 A a^3 d^2 m^3 n x^n + 15 B a^2 b^2 c^2 (x^n)^{2m+15} A a^2 b^2 d (x^n)^{3m+36} A a^2 b^2 d^2 (x^n)^{3n+30} A a^2 b^2 d^2 m^3 (x^n)^{2+59} B a^3 d^2 m^3 n^2 (x^n)^{2+107} B a^3 d^2 m^2 n^3 (x^n)^{2+642} A a^2 b^2 c^2 m^3 (x^n)^{2+441} B a^2 b^2 c^2 m^2 n^2 (x^n)^3 \\
& + 44 B b^3 c^2 m^2 n (x^n)^4 + 30 B a^2 b^2 c^2 m^3 (x^n)^3 + 180 A a^2 b^2 d^2 m^2 n^4 (x^n)^2 + 39 A a^2 b^2 c^2 m^4 n (x^n)^2 + 123 B b^3 c^2 m^2 n^2 (x^n)^4 + 3 B a^2 b^2 c^2 m^5 (x^n)^3 + 15 B a^2 b^2 d^2 m^4 (x^n)^4 + 12 A b^3 c^2 m^4 n (x^n)^3 + 123 A b^3 d^2 m^2 n^2 (x^n)^4 + 120 B a^2 b^2 d^2 n^4 (x^n)^3 + 180 B a^2 b^2 c^2 m^2 n^4 (x^n)^2 + 15 a^3 A c^2 n^4 \\
& 9 A b^3 c^2 m^3 n^2 (x^n)^3 + 30 A a^2 b^2 c^2 m^2 (x^n)^2 + 154 A a^3 d^2 m^2 n^3 x^n + 531 A a^2 b^2 d^2 m^2 n^2 (x^n)^2 + 177 B a^2 b^2 c^2 n^2 (x^n)^2 + 5 a^3 A c^2 m + 360 A a^2 b^2 c^2 n^4 x^n + 360 A a^2 b^2 c^2 m^2 n^4 x^n + 156 A a^2 b^2 d^2 m^3 n (x^n)^2 + 3 A a^2 b^2 c^2 m^5 (x^n)^2 + 78 B a^3 d^2 m^2 n (x^n)^2 + 177 B a^3 d^2 m^2 n^2 (x^n)^2 + 30 B a^2 b^2 c^2 m^3 (x^n)^2 + 36 B a^2 b^2 c^2 m^4 n (x^n)^3 + 3 A a^2 b^2 d^2 m^5 (x^n)^3 + 39 B a^2 b^2 c^2 (x^n)^2 n + 56 A a^3 d^2 m^2 n x^n + 156 A a^2 b^2 d^2 m^2 n (x^n)^2 + a^3 A c^2 + 213 B a^3 c^2 m^2 n^2 x^n + 52 B a^3 d^2 m^2 n (x^n)^2 + 177 B a^3 d^2 m^2 n^2 (x^n)^2 + 321 A a^2 b^2 d^2 m^2 n^3 (x^n)^2 + 147 B a^2 b^2 c^2 n^2 (x^n)^3 + 156 A a^2 b^2 c^2 m^3 n (x^n)^2 + 156 A b^3 c^2 m^2 n^3 (x^n)^3 + 71 A a^3 d^2 m^3 n^2 x^n + 39 A a^2 b^2 c^2 (x^n)^2 n + 156 B a^2 b^2 c^2 m^3 n (x^n)^2 + 40 B b^3 d^2 m^2 n (x^n)^5 + 177 A a^2 b^2 d^2 n^2 (x^n)^2 + 63 \\
& 9 A a^2 b^2 c^2 m^2 n^2 x^n + 30 B b^3 c^2 m^2 n^4 (x^n)^4 + 40 B b^3 d^2 m^3 n (x^n)^5 + 10 B b^3 d^2 m^4 n (x^n)^5 + 441 B a^2 b^2 c^2 m^2 n^2 (x^n)^3 + 123 B a^2 b^2 d^2 n^2 (x^n)^4 + 3 A a^2 b^2 c^2 m^5 x^n + 66 B b^3 c^2 m^2 n (x^n)^4 + 468 A a^2 b^2 d^2 m^2 n^3 (x^n)^3 + 60 B a^3 d^2 n^4 (x^n)^2 + 10 B b^3 c^2 m^2 (x^n)^4 + 213 A a^2 b^2 c^2 m^3 n^2 x^n + 46 \\
& 2 A a^2 b^2 c^2 m^2 n^3 x^n + 15 A a^2 b^2 d^2 m^4 (x^n)^3 + 60 B a^3 d^2 m^2 n^4 (x^n)^2 + 3 B a^2 b^2 c^2 m^5 (x^n)^2 + 531 B a^2 b^2 c^2 m^2 n^2 (x^n)^2 + 642 B a^2 b^2 c^2 m^3 (x^n)^2 + 41 A b^3 d^2 m^3 n^2 (x^n)^4 + 105 B b^3 d^2 m^2 n^2 (x^n)^5 + 61 B b^3 c^2 m^2 n^3 (x^n)^4 + 234 A a^2 b^2 d^2 n^3 (x^n)^3 + 234 B a^2 b^2 d^2 n^3 (x^n)^3 + 198 B a^2 b^2 d^2 m^2 n (x^n)^4 + 123 B b^3 c^2 m^2 n^2 (x^n)^4 + 122 B b^3 c^2 m^2 n^3 (x^n)^4 + B a^3 c^2 x^n + A b^3 c^2 (x^n)^3 + 36 B a^2 b^2 c^2 (x^n)^3 n + 56 B a^3 c^2 m^3 n x^n + 5 B a^3 c^2 x^n m + 14 B a^3 c^2 x^n n + 41 B b^3 c^2 n^2 (x^n)^4 + 5 m b^3 B d^2 (x^n)^5 + 10 b^3 B d^2 (x^n)^5 n + 5 A a^3 d^2 m^4 x^n + 120 A a^3 d^2 n^4 x^n + 10 A b^3 c^2 m^2 (x^n)^3 + 30 A b^3 d^2 n^4 (x^n)^4 + 5 B b^3 c^2 m^4 (x^n)^4 + 30 B b^3 c^2 n^4 (x^n)^4 + 10 B b^3 d^2 m^3 (x^n)^5 + 50 B b^3 d^2 n^3 (x^n)^5 + 11 B b^3 c^2 (x^n)^4 n + 10 A a^3 d^2 m^3 x^n + 154 A a^3 d^2 n^3 x^n + 5 A b^3 c^2 (x^n)^3 m + 12 A b^3 c^2 (x^n)^3 n + 10 B a^3 c^2 m^3 x^n + 120 A a^3 c^2 n^5 + 10 A a^3 c^2 m^2 + 85 A a^3 c^2 n^2 + 56 B a^3 c^2 m^2 n x^n + 15 A a^2 b^2 c^2 m^4 (x^n)^2 + 84 A a^3 d^2 m^2 n x^n + 11 A b^3 d^2 m^4 n (x^n)^4 + 30 B a^2 b^2 c^2 m^2 (x^n)^3 + 154 B a^3 c^2 m^2 n^3 x^n + 120 B a^3 c^2 m^2 n^4 x^n + 13 B a^3 d^2 m^4 n (x^n)^2 + 441 A a^2 b^2 d^2 m^2 n^2 (x^n)^3 + 147 B a^2 b^2 c^2 m^3 n^2 (x^n)^3 + 42 A a^2 b^2 c^2 m^4 n x^n + 48 A b^3 c^2 m^3 n (x^n)^3 + 147 A b^3 c^2 m^2 n^2 (x^n)^3 + 35 B b^3 d^2 m^3 n^2 (x^n)^5 + 177 A a^2 b^2 d^2 m^3 n^2 (x^n)^2 + 15 B a^2 b^2 c^2 m^4 (x^n)^2 + 120 B a^2 b^2 d^2 m^2 n^4 (x^n)^3 + 3 B a^2 b^2 d^2 m^5 (x^n)^4 + 180 A a^2 b^2 c^2 m^2 n^4 (x^n)^2 + 144 A a^2 b^2 d^2 m^3 n (x^n)^3 + 36 B a^2 b^2 d^2 (x^n)^3 n + 15 B a^2 b^2 c^2 (x^n)^3 m + 642 A a^2 b^2 d^2 m^2 n^3 (x^n)^2 + 44 A b^3 d^2 m^2 n (x^n)^4 + 66 A b^3 d^2 m^2 n^2 (x^n)^4 + 147 A a^2 b^2 d^2 m^3 n^2 (x^n)^3 + 11 B b^3 c^2 m^4 n (x^n)^4 + 183 B a^2 b^2 d^2 m^2 n^3 (x^n)^4 + 60 B b^3 d^2 m^2 n (x^n)^5 + 39 B a^2 b^2 c^2 m^4 n (x^n)^2 + 321 B a^2 b^2 c^2 m^2 n^3 (x^n)^2 + 639 A a^2 b^2 c^2 m^2 n^2 x^n + 924 A a^2 b^2 c^2 m^2 n^2 x^n
\end{aligned}$$

$$\begin{aligned}
& 3x^n + 234A^2b^2d^2m^2n(x^n)^2 + 441B^2a^2b^2d^2m^2n^2(x^n)^3 + 50B^2b^3d^2m^2n^3(x^n)^5 + B^2b^3d^2m^5(x^n)^5 + 90B^2a^2b^2d^2m^4(x^n)^4 + 36A^2a^2b^2d^2m^4n(x^n)^3 + 72A^2b^3c^2m^2n(x^n)^3 + 441B^2a^2b^2d^2m^2n^2(x^n)^3 + 144B^2a^2b^2c^2m^3n(x^n)^3 + 168A^2a^2b^2c^2m^3n^2x^n + 100B^2b^3d^2m^3n^3(x^n)^5 + 234B^2a^2b^2c^2m^3n^3(x^n)^3 + 15B^2a^2b^2d^2(x^n)^4 + 15A^2a^2b^2c^2m^4x^n + 156A^2a^2b^2c^2m^4n(x^n)^2 + 40A^2b^3c^2m^4n(x^n)^3 + 252A^2a^2b^2c^2m^2n^2x^n + 15A^2a^2b^2d^2m^4(x^n)^2 + 52B^2a^3d^2m^3n(x^n)^2 + 321A^2a^2b^2c^2m^3n^3(x^n)^2 + 30B^2a^2b^2d^2m^2(x^n)^3 + 30B^2a^2b^2c^2m^2(x^n)^2 + 321A^2a^2b^2d^2m^3n^3(x^n)^2 + 30A^2a^2b^2c^2m^3n^3(x^n)^2 + B^2b^3c^2m^3n^4 + 123A^2b^3d^2m^2n^2(x^n)^4 + 78A^2b^3c^2m^2n^3(x^n)^3 + 369B^2a^2b^2d^2m^2n^2(x^n)^4 + 468B^2a^2b^2c^2m^3n^3(x^n)^3 + 3A^2a^2b^2d^2m^5(x^n)^2 + 30A^2a^2b^2d^2m^3(x^n)^3 + 183B^2a^2b^2d^2m^3n^3(x^n)^4 + 216A^2a^2b^2d^2m^2n(x^n)^3 + 105B^2b^3d^2m^2n^2(x^n)^5 + 36B^2a^2b^2d^2m^4n(x^n)^3 + 120A^2a^2b^2d^2m^2n^4(x^n)^3 + 234A^2a^2b^2d^2m^2n^3(x^n)^3 + 180A^2a^2b^2d^2m^4(x^n)^2 + 30B^2a^2b^2d^2m^3(x^n)^3 + 120A^2a^3d^2m^4n^4x^n + 71B^2a^3c^2m^3n^2x^n + 213A^2a^3d^2m^2n^2x^n + 216B^2a^2b^2d^2m^2n^2(x^n)^3 + 531A^2a^2b^2d^2m^2n^2(x^n)^2 + 321B^2a^2b^2c^2m^3n^3(x^n)^2 + 147B^2a^2b^2d^2m^2n^2(x^n)^3 + 180A^2a^2b^2c^2m^4n^4(x^n)^2 + 41B^2b^3c^2m^3n^2(x^n)^4 + 39A^2a^2b^2d^2(x^n)^2 + 30B^2a^2b^2d^2m^2(x^n)^4 + 214B^2a^3d^2m^3n^3(x^n)^2 + 308A^2a^3d^2m^3n^3x^n + 15B^2a^2b^2d^2m^4(x^n)^3 + 33B^2a^2b^2d^2(x^n)^4 + 156B^2a^2b^2c^2m^3n^3(x^n)^2 + 321A^2a^2b^2c^2m^2n^3(x^n)^2 + 177A^2a^2b^2c^2m^3n^2(x^n)^2 + 369B^2a^2b^2d^2m^2n^2(x^n)^4 + 14B^2a^3c^2m^4n^4x^n + 468B^2a^2b^2d^2m^3n^3(x^n)^3 + 168A^2a^2b^2c^2m^3n^3x^n + 144B^2a^2b^2d^2m^3n^3(x^n)^3 + 120A^2a^2b^2d^2m^4(x^n)^3 + 3B^2a^2b^2d^2m^5(x^n)^3 + 10B^2a^3c^2m^2x^n + 71B^2a^3c^2m^2x^n + 123B^2a^2b^2d^2m^3n^2(x^n)^4 + 531A^2a^2b^2c^2m^2n^2(x^n)^2 + 144A^2a^2b^2d^2m^2n^2(x^n)^3 + 15A^2a^2b^2c^2x^n + 42A^2a^2b^2c^2x^n + 462A^2a^2b^2c^2n^3x^n + 30A^2a^2b^2d^2m^2(x^n)^2 + 15A^2a^2b^2d^2(x^n)^2 + 30A^2a^2b^2d^2m^2(x^n)^3 + 147A^2a^2b^2d^2m^2(x^n)^3 + 48A^2b^3c^2m^3n(x^n)^3 + 15B^2a^2b^2d^2(x^n)^3 + 234B^2a^2b^2c^2m^2n^3(x^n)^3 + 120B^2a^2b^2c^2m^4n^4(x^n)^3 + 33B^2a^2b^2d^2m^4n^4(x^n)^4 + 154B^2a^3c^2m^3n^3x^n + 10B^2a^3d^2m^2(x^n)^2 + 59B^2a^3d^2m^2(x^n)^2 + b^3B^2d^2(x^n)^5 + A^2b^3d^2(x^n)^4 + 3(x^n)^2 + c^2a^2b^2A^2 + 3(x^n)^2 + c^2a^2b^2B^2 + 3(x^n)^3 + A^2a^2b^2d^2 + 40A^2b^3c^2n^4(x^n)^3 + 255A^2a^3c^2m^2n^2 + 450A^2a^3c^2m^3n^3 + 5A^2b^3c^2m^4(x^n)^3 + B^2a^3d^2m^5(x^n)^2 + 10B^2b^3c^2m^3(x^n)^4 + 61B^2b^3c^2n^3(x^n)^4 + 10B^2b^3d^2m^2(x^n)^5 + 3(x^n)^3 + B^2a^2b^2c^2 + 5B^2b^3c^2(x^n)^4 + 10A^2b^3c^2m^3(x^n)^3 + 5A^2b^3d^2m^4(x^n)^4 + 274A^2a^3c^2n^4 + 10A^2a^3c^2m^3 + 225A^2a^3c^2n^3 + 60A^2a^3c^2m^3n + A^2a^3c^2m^5 + 5A^2a^3c^2m^4 + 15A^2a^3c^2m^4n + 85A^2a^3c^2m^3n^2 + 225A^2a^3c^2m^2n^3 + 274A^2a^3c^2m^4n + A^2b^3c^2m^5(x^n)^3 + 5A^2a^3d^2x^n + B^2a^3d^2(x^n)^2 + A^2a^3d^2x^n + 90A^2a^3c^2m^2n + 255A^2a^3c^2m^2n + A^2a^3d^2m^5x^n + 10A^2b^3d^2m^2(x^n)^4 + 41A^2b^3d^2n^2(x^n)^4 + B^2a^3c^2m^5x^n + 5B^2a^3d^2m^4(x^n)^2 + 3(x^n)^4 + B^2a^2b^2d^2 + A^2b^3d^2m^5(x^n)^4 + 35B^2b^3d^2n^2(x^n)^5 + 49A^2b^3c^2n^2(x^n)^3 + 5A^2b^3d^2(x^n)^4 + 11A^2b^3d^2(x^n)^4 + 5B^2a^3c^2m^4x^n + 120B^2a^3c^2n^4x^n + 10B^2a^3d^2m^3(x^n)^2 + 107B^2a^3d^2n^3(x^n)^2 + 61A^2b^3d^2n^3(x^n)^4 + 10A^2b^3d^2m^3(x^n)^4 + B^2b^3c^2m^5(x^n)^4 + 5B^2b^3d^2m^4(x^n)^5 + 24B^2b^3d^2n^4(x^n)^5 + 10A^2a^3d^2m^2x^n + 71A^2a^3d^2n^2x^n + 3x^n + c^2a^2b^2A^2 + 3(x^n)^3 + B^2a^2b^2d^2 + 14A^2a^3d^2x^n + 60A^2a^3c^2m^3n + 5B^2a^3d^2(x^n)^2 + 13B^2a^3d^2(x^n)^2 + 78A^2b^3c^2n^3(x^n)^3) / ((1+m) / (1+m+n) / (1+m+2n) / (1+m+3n) / (1+m+4n)
\end{aligned}$$

)/(1+m+5*n)*x^m*e^m*exp(1/2*I*csgn(I*e*x)*Pi*m*(csgn(I*e*x)-csgn(I*x))*(-cs
gn(I*e*x)+csgn(I*e)))

Fricas [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 3073 vs. 2(210) = 420.

Time = 0.37 (sec) , antiderivative size = 3073, normalized size of antiderivative = 14.63

$$\int (ex)^m (a + bx^n)^3 (A + Bx^n) (c + dx^n) dx = \text{Too large to display}$$

```
[In] integrate((e*x)^m*(a+b*x^n)^3*(A+B*x^n)*(c+d*x^n),x, algorithm="fricas")
[Out] ((B*b^3*d*m^5 + 5*B*b^3*d*m^4 + 10*B*b^3*d*m^3 + 10*B*b^3*d*m^2 + 5*B*b^3*d
*m + B*b^3*d + 24*(B*b^3*d*m + B*b^3*d)*n^4 + 50*(B*b^3*d*m^2 + 2*B*b^3*d*m
+ B*b^3*d)*n^3 + 35*(B*b^3*d*m^3 + 3*B*b^3*d*m^2 + 3*B*b^3*d*m + B*b^3*d)*
n^2 + 10*(B*b^3*d*m^4 + 4*B*b^3*d*m^3 + 6*B*b^3*d*m^2 + 4*B*b^3*d*m + B*b^3
*d)*n)*x*x^(5*n)*e^(m*log(e) + m*log(x)) + ((B*b^3*c + (3*B*a*b^2 + A*b^3)*
d)*m^5 + B*b^3*c + 5*(B*b^3*c + (3*B*a*b^2 + A*b^3)*d)*m^4 + 30*(B*b^3*c +
(3*B*a*b^2 + A*b^3)*d + (B*b^3*c + (3*B*a*b^2 + A*b^3)*d)*m)*n^4 + 10*(B*b^
3*c + (3*B*a*b^2 + A*b^3)*d)*m^3 + 61*(B*b^3*c + (B*b^3*c + (3*B*a*b^2 + A*
b^3)*d)*m^2 + (3*B*a*b^2 + A*b^3)*d + 2*(B*b^3*c + (3*B*a*b^2 + A*b^3)*d)*m
)*n^3 + 10*(B*b^3*c + (3*B*a*b^2 + A*b^3)*d)*m^2 + 41*(B*b^3*c + (B*b^3*c +
(3*B*a*b^2 + A*b^3)*d)*m^3 + 3*(B*b^3*c + (3*B*a*b^2 + A*b^3)*d)*m^2 + (3*
B*a*b^2 + A*b^3)*d + 3*(B*b^3*c + (3*B*a*b^2 + A*b^3)*d)*m)*n^2 + (3*B*a*b^
2 + A*b^3)*d + 5*(B*b^3*c + (3*B*a*b^2 + A*b^3)*d)*m + 11*(B*b^3*c + (B*b^3
*c + (3*B*a*b^2 + A*b^3)*d)*m^4 + 4*(B*b^3*c + (3*B*a*b^2 + A*b^3)*d)*m^3 +
6*(B*b^3*c + (3*B*a*b^2 + A*b^3)*d)*m^2 + (3*B*a*b^2 + A*b^3)*d + 4*(B*b^3
*c + (3*B*a*b^2 + A*b^3)*d)*m)*n)*x*x^(4*n)*e^(m*log(e) + m*log(x)) + (((3*
B*a*b^2 + A*b^3)*c + 3*(B*a^2*b + A*a*b^2)*d)*m^5 + 5*((3*B*a*b^2 + A*b^3)*
c + 3*(B*a^2*b + A*a*b^2)*d)*m^4 + 40*((3*B*a*b^2 + A*b^3)*c + 3*(B*a^2*b +
A*a*b^2)*d + ((3*B*a*b^2 + A*b^3)*c + 3*(B*a^2*b + A*a*b^2)*d)*m)*n^4 + 10
*((3*B*a*b^2 + A*b^3)*c + 3*(B*a^2*b + A*a*b^2)*d)*m^3 + 78*((3*B*a*b^2 +
A*b^3)*c + 3*(B*a^2*b + A*a*b^2)*d)*m^2 + (3*B*a*b^2 + A*b^3)*c + 3*(B*a^2*
b + A*a*b^2)*d + 2*((3*B*a*b^2 + A*b^3)*c + 3*(B*a^2*b + A*a*b^2)*d)*m)*n^3
+ 10*((3*B*a*b^2 + A*b^3)*c + 3*(B*a^2*b + A*a*b^2)*d)*m^2 + 49*((3*B*a*b
^2 + A*b^3)*c + 3*(B*a^2*b + A*a*b^2)*d)*m^3 + 3*((3*B*a*b^2 + A*b^3)*c + 3
*(B*a^2*b + A*a*b^2)*d)*m^2 + (3*B*a*b^2 + A*b^3)*c + 3*(B*a^2*b + A*a*b^2)
*d + 3*((3*B*a*b^2 + A*b^3)*c + 3*(B*a^2*b + A*a*b^2)*d)*m)*n^2 + (3*B*a*b^
2 + A*b^3)*c + 3*(B*a^2*b + A*a*b^2)*d + 5*((3*B*a*b^2 + A*b^3)*c + 3*(B*a^
2*b + A*a*b^2)*d)*m + 12*((3*B*a*b^2 + A*b^3)*c + 3*(B*a^2*b + A*a*b^2)*d)
*m^4 + 4*((3*B*a*b^2 + A*b^3)*c + 3*(B*a^2*b + A*a*b^2)*d)*m^3 + 6*((3*B*a*
b^2 + A*b^3)*c + 3*(B*a^2*b + A*a*b^2)*d)*m^2 + (3*B*a*b^2 + A*b^3)*c + 3*(
B*a^2*b + A*a*b^2)*d + 4*((3*B*a*b^2 + A*b^3)*c + 3*(B*a^2*b + A*a*b^2)*d)*
m)*n)*x*x^(3*n)*e^(m*log(e) + m*log(x)) + ((3*(B*a^2*b + A*a*b^2)*c + (B*a^
```

```

3 + 3*A*a^2*b)*d)*m^5 + 5*(3*(B*a^2*b + A*a*b^2)*c + (B*a^3 + 3*A*a^2*b)*d)
*m^4 + 60*(3*(B*a^2*b + A*a*b^2)*c + (B*a^3 + 3*A*a^2*b)*d + (3*(B*a^2*b +
A*a*b^2)*c + (B*a^3 + 3*A*a^2*b)*d)*m)*n^4 + 10*(3*(B*a^2*b + A*a*b^2)*c +
(B*a^3 + 3*A*a^2*b)*d)*m^3 + 107*((3*(B*a^2*b + A*a*b^2)*c + (B*a^3 + 3*A*a
^2*b)*d)*m^2 + 3*(B*a^2*b + A*a*b^2)*c + (B*a^3 + 3*A*a^2*b)*d + 2*(3*(B*a^
2*b + A*a*b^2)*c + (B*a^3 + 3*A*a^2*b)*d)*m)*n^3 + 10*(3*(B*a^2*b + A*a*b^2
)*c + (B*a^3 + 3*A*a^2*b)*d)*m^2 + 59*((3*(B*a^2*b + A*a*b^2)*c + (B*a^3 +
3*A*a^2*b)*d)*m^3 + 3*(3*(B*a^2*b + A*a*b^2)*c + (B*a^3 + 3*A*a^2*b)*d)*m^2
+ 3*(B*a^2*b + A*a*b^2)*c + (B*a^3 + 3*A*a^2*b)*d + 3*(3*(B*a^2*b + A*a*b^
2)*c + (B*a^3 + 3*A*a^2*b)*d)*m)*n^2 + 3*(B*a^2*b + A*a*b^2)*c + (B*a^3 + 3
*A*a^2*b)*d + 5*(3*(B*a^2*b + A*a*b^2)*c + (B*a^3 + 3*A*a^2*b)*d)*m + 13*((
3*(B*a^2*b + A*a*b^2)*c + (B*a^3 + 3*A*a^2*b)*d)*m^4 + 4*(3*(B*a^2*b + A*a*
b^2)*c + (B*a^3 + 3*A*a^2*b)*d)*m^3 + 6*(3*(B*a^2*b + A*a*b^2)*c + (B*a^3 +
3*A*a^2*b)*d)*m^2 + 3*(B*a^2*b + A*a*b^2)*c + (B*a^3 + 3*A*a^2*b)*d + 4*(3
*(B*a^2*b + A*a*b^2)*c + (B*a^3 + 3*A*a^2*b)*d)*m)*n)*x*x^(2*n)*e^(m*log(e)
+ m*log(x)) + ((A*a^3*d + (B*a^3 + 3*A*a^2*b)*c)*m^5 + A*a^3*d + 5*(A*a^3*d
+ (B*a^3 + 3*A*a^2*b)*c)*m^4 + 120*(A*a^3*d + (B*a^3 + 3*A*a^2*b)*c + (A*
a^3*d + (B*a^3 + 3*A*a^2*b)*c)*m)*n^4 + 10*(A*a^3*d + (B*a^3 + 3*A*a^2*b)*c
)*m^3 + 154*(A*a^3*d + (A*a^3*d + (B*a^3 + 3*A*a^2*b)*c)*m^2 + (B*a^3 + 3*A
a^2*b)*c + 2*(A*a^3*d + (B*a^3 + 3*A*a^2*b)*c)*m)*n^3 + 10*(A*a^3*d + (B*a
^3 + 3*A*a^2*b)*c)*m^2 + 71*(A*a^3*d + (A*a^3*d + (B*a^3 + 3*A*a^2*b)*c)*m^
3 + 3*(A*a^3*d + (B*a^3 + 3*A*a^2*b)*c)*m^2 + (B*a^3 + 3*A*a^2*b)*c + 3*(A*
a^3*d + (B*a^3 + 3*A*a^2*b)*c)*m)*n^2 + (B*a^3 + 3*A*a^2*b)*c + 5*(A*a^3*d
+ (B*a^3 + 3*A*a^2*b)*c)*m + 14*(A*a^3*d + (A*a^3*d + (B*a^3 + 3*A*a^2*b)*c
)*m^4 + 4*(A*a^3*d + (B*a^3 + 3*A*a^2*b)*c)*m^3 + 6*(A*a^3*d + (B*a^3 + 3*A
a^2*b)*c)*m^2 + (B*a^3 + 3*A*a^2*b)*c + 4*(A*a^3*d + (B*a^3 + 3*A*a^2*b)*c
)*m)*n)*x*x^n*e^(m*log(e) + m*log(x)) + (A*a^3*c*m^5 + 120*A*a^3*c*n^5 + 5*
A*a^3*c*m^4 + 10*A*a^3*c*m^3 + 10*A*a^3*c*m^2 + 5*A*a^3*c*m + A*a^3*c + 274
*(A*a^3*c*m + A*a^3*c)*n^4 + 225*(A*a^3*c*m^2 + 2*A*a^3*c*m + A*a^3*c)*n^3
+ 85*(A*a^3*c*m^3 + 3*A*a^3*c*m^2 + 3*A*a^3*c*m + A*a^3*c)*n^2 + 15*(A*a^3*
c*m^4 + 4*A*a^3*c*m^3 + 6*A*a^3*c*m^2 + 4*A*a^3*c*m + A*a^3*c)*n)*x*e^(m*lo
g(e) + m*log(x)))/(m^6 + 120*(m + 1)*n^5 + 6*m^5 + 274*(m^2 + 2*m + 1)*n^4
+ 15*m^4 + 225*(m^3 + 3*m^2 + 3*m + 1)*n^3 + 20*m^3 + 85*(m^4 + 4*m^3 + 6*m
^2 + 4*m + 1)*n^2 + 15*m^2 + 15*(m^5 + 5*m^4 + 10*m^3 + 10*m^2 + 5*m + 1)*n
+ 6*m + 1)

```

Sympy [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 64068 vs. 2(206) = 412.

Time = 13.38 (sec) , antiderivative size = 64068, normalized size of antiderivative = 305.09

$$\int (ex)^m (a + bx^n)^3 (A + Bx^n) (c + dx^n) dx = \text{Too large to display}$$

[In] integrate((e*x)**m*(a+b*x**n)**3*(A+B*x**n)*(c+d*x**n),x)

```
[Out] Piecewise(((A + B)*(a + b)**3*(c + d)*log(x)/e, Eq(m, -1) & Eq(n, 0)), ((A*
a**3*c*log(x) + A*a**3*d*x**n/n + 3*A*a**2*b*c*x**n/n + 3*A*a**2*b*d*x**(2*
n)/(2*n) + 3*A*a*b**2*c*x**(2*n)/(2*n) + A*a*b**2*d*x**(3*n)/n + A*b**3*c*x
**(3*n)/(3*n) + A*b**3*d*x**(4*n)/(4*n) + B*a**3*c*x**n/n + B*a**3*d*x**(2*
n)/(2*n) + 3*B*a**2*b*c*x**(2*n)/(2*n) + B*a**2*b*d*x**(3*n)/n + B*a*b**2*c
*x**(3*n)/n + 3*B*a*b**2*d*x**(4*n)/(4*n) + B*b**3*c*x**(4*n)/(4*n) + B*b**
3*d*x**(5*n)/(5*n))/e, Eq(m, -1)), (A*a**3*c*Piecewise((0**(-5*n - 1)*x, Eq
(e, 0)), (Piecewise((-1/(5*n*(e*x)**(5*n))), Ne(n, 0)), (log(e*x), True))/e,
True)) + A*a**3*d*Piecewise((-x*x**n*(e*x)**(-5*n - 1)/(4*n), Ne(n, 0)), (
x*x**n*(e*x)**(-5*n - 1)*log(x), True)) + 3*A*a**2*b*c*Piecewise((-x*x**n*(
e*x)**(-5*n - 1)/(4*n), Ne(n, 0)), (x*x**n*(e*x)**(-5*n - 1)*log(x), True))
+ 3*A*a**2*b*d*Piecewise((-x*x**(2*n)*(e*x)**(-5*n - 1)/(3*n), Ne(n, 0)),
(x*x**(2*n)*(e*x)**(-5*n - 1)*log(x), True)) + 3*A*a*b**2*c*Piecewise((-x*x
**(2*n)*(e*x)**(-5*n - 1)/(3*n), Ne(n, 0)), (x*x**(2*n)*(e*x)**(-5*n - 1)*l
og(x), True)) + 3*A*a*b**2*d*Piecewise((-x*x**(3*n)*(e*x)**(-5*n - 1)/(2*n)
, Ne(n, 0)), (x*x**(3*n)*(e*x)**(-5*n - 1)*log(x), True)) + A*b**3*c*Piecew
ise((-x*x**(3*n)*(e*x)**(-5*n - 1)/(2*n), Ne(n, 0)), (x*x**(3*n)*(e*x)**(-5
*n - 1)*log(x), True)) + A*b**3*d*Piecewise((-x*x**(4*n)*(e*x)**(-5*n - 1)/
n, Ne(n, 0)), (x*x**(4*n)*(e*x)**(-5*n - 1)*log(x), True)) + B*a**3*c*Piec
e wise((-x*x**n*(e*x)**(-5*n - 1)/(4*n), Ne(n, 0)), (x*x**n*(e*x)**(-5*n - 1)
*log(x), True)) + B*a**3*d*Piecewise((-x*x**(2*n)*(e*x)**(-5*n - 1)/(3*n),
Ne(n, 0)), (x*x**(2*n)*(e*x)**(-5*n - 1)*log(x), True)) + 3*B*a**2*b*c*Piec
e wise((-x*x**(2*n)*(e*x)**(-5*n - 1)/(3*n), Ne(n, 0)), (x*x**(2*n)*(e*x)**(-
5*n - 1)*log(x), True)) + 3*B*a**2*b*d*Piecewise((-x*x**(3*n)*(e*x)**(-5*n
- 1)/(2*n), Ne(n, 0)), (x*x**(3*n)*(e*x)**(-5*n - 1)*log(x), True)) + 3*B*
a*b**2*c*Piecewise((-x*x**(3*n)*(e*x)**(-5*n - 1)/(2*n), Ne(n, 0)), (x*x**(
3*n)*(e*x)**(-5*n - 1)*log(x), True)) + 3*B*a*b**2*d*Piecewise((-x*x**(4*n)
*(e*x)**(-5*n - 1)/n, Ne(n, 0)), (x*x**(4*n)*(e*x)**(-5*n - 1)*log(x), True
)) + B*b**3*c*Piecewise((-x*x**(4*n)*(e*x)**(-5*n - 1)/n, Ne(n, 0)), (x*x**
(4*n)*(e*x)**(-5*n - 1)*log(x), True)) + B*b**3*d*x*x**(5*n)*(e*x)**(-5*n -
1)*log(x), Eq(m, -5*n - 1)), (A*a**3*c*Piecewise((0**(-4*n - 1)*x, Eq(e, 0
)), (Piecewise((-1/(4*n*(e*x)**(4*n))), Ne(n, 0)), (log(e*x), True))/e, True
)) + A*a**3*d*Piecewise((-x*x**n*(e*x)**(-4*n - 1)/(3*n), Ne(n, 0)), (x*x**
n*(e*x)**(-4*n - 1)*log(x), True)) + 3*A*a**2*b*c*Piecewise((-x*x**n*(e*x)*
*(-4*n - 1)/(3*n), Ne(n, 0)), (x*x**n*(e*x)**(-4*n - 1)*log(x), True)) + 3*
A*a**2*b*d*Piecewise((-x*x**(2*n)*(e*x)**(-4*n - 1)/(2*n), Ne(n, 0)), (x*x*
*(2*n)*(e*x)**(-4*n - 1)*log(x), True)) + 3*A*a*b**2*c*Piecewise((-x*x**(2*
n)*(e*x)**(-4*n - 1)/(2*n), Ne(n, 0)), (x*x**(2*n)*(e*x)**(-4*n - 1)*log(x)
, True)) + 3*A*a*b**2*d*Piecewise((-x*x**(3*n)*(e*x)**(-4*n - 1)/n, Ne(n, 0
)), (x*x**(3*n)*(e*x)**(-4*n - 1)*log(x), True)) + A*b**3*c*Piecewise((-x*x
**(3*n)*(e*x)**(-4*n - 1)/n, Ne(n, 0)), (x*x**(3*n)*(e*x)**(-4*n - 1)*log(x)
), True)) + A*b**3*d*x*x**(4*n)*(e*x)**(-4*n - 1)*log(x) + B*a**3*c*Piecewi
se((-x*x**n*(e*x)**(-4*n - 1)/(3*n), Ne(n, 0)), (x*x**n*(e*x)**(-4*n - 1)*l
og(x), True)) + B*a**3*d*Piecewise((-x*x**(2*n)*(e*x)**(-4*n - 1)/(2*n), Ne
(n, 0)), (x*x**(2*n)*(e*x)**(-4*n - 1)*log(x), True)) + 3*B*a**2*b*c*Piec
```

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ise((-x*x**(2*n)*(e*x)**(-4*n - 1)/(2*n), Ne(n, 0)), (x*x**(2*n)*(e*x)**(-4
*n - 1)*log(x), True)) + 3*B*a**2*b*d*Piecewise((-x*x**(3*n)*(e*x)**(-4*n -
1)/n, Ne(n, 0)), (x*x**(3*n)*(e*x)**(-4*n - 1)*log(x), True)) + 3*B*a*b**2
*c*Piecewise((-x*x**(3*n)*(e*x)**(-4*n - 1)/n, Ne(n, 0)), (x*x**(3*n)*(e*x)
**(-4*n - 1)*log(x), True)) + 3*B*a*b**2*d*x*x**(4*n)*(e*x)**(-4*n - 1)*log
(x) + B*b**3*c*x*x**(4*n)*(e*x)**(-4*n - 1)*log(x) + B*b**3*d*Piecewise((x*
x**(5*n)*(e*x)**(-4*n - 1)/n, Ne(n, 0)), (x*x**(5*n)*(e*x)**(-4*n - 1)*log(
x), True)), Eq(m, -4*n - 1)), (A*a**3*c*Piecewise((0**(-3*n - 1)*x, Eq(e, 0
)), (Piecewise((-1/(3*n*(e*x)**(3*n)), Ne(n, 0)), (log(e*x), True))/e, True
)) + A*a**3*d*Piecewise((-x*x**n*(e*x)**(-3*n - 1)/(2*n), Ne(n, 0)), (x*x**
n*(e*x)**(-3*n - 1)*log(x), True)) + 3*A*a**2*b*c*Piecewise((-x*x**n*(e*x)*
*(-3*n - 1)/(2*n), Ne(n, 0)), (x*x**n*(e*x)**(-3*n - 1)*log(x), True)) + 3*
A*a**2*b*d*Piecewise((-x*x**(2*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x*x**(2*
n)*(e*x)**(-3*n - 1)*log(x), True)) + 3*A*a*b**2*c*Piecewise((-x*x**(2*n)*(
e*x)**(-3*n - 1)/n, Ne(n, 0)), (x*x**(2*n)*(e*x)**(-3*n - 1)*log(x), True))
+ 3*A*a*b**2*d*x*x**(3*n)*(e*x)**(-3*n - 1)*log(x) + A*b**3*c*x*x**(3*n)*(
e*x)**(-3*n - 1)*log(x) + A*b**3*d*Piecewise((x*x**(4*n)*(e*x)**(-3*n - 1)/
n, Ne(n, 0)), (x*x**(4*n)*(e*x)**(-3*n - 1)*log(x), True)) + B*a**3*c*Piece
wise((-x*x**n*(e*x)**(-3*n - 1)/(2*n), Ne(n, 0)), (x*x**n*(e*x)**(-3*n - 1)
*log(x), True)) + B*a**3*d*Piecewise((-x*x**(2*n)*(e*x)**(-3*n - 1)/n, Ne(n
, 0)), (x*x**(2*n)*(e*x)**(-3*n - 1)*log(x), True)) + 3*B*a**2*b*c*Piecewis
e((-x*x**(2*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x*x**(2*n)*(e*x)**(-3*n - 1)
*log(x), True)) + 3*B*a**2*b*d*x*x**(3*n)*(e*x)**(-3*n - 1)*log(x) + 3*B*a
*b**2*c*x*x**(3*n)*(e*x)**(-3*n - 1)*log(x) + 3*B*a*b**2*d*Piecewise((x*x**
(4*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x*x**(4*n)*(e*x)**(-3*n - 1)*log(x),
True)) + B*b**3*c*Piecewise((x*x**(4*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x
*x**(4*n)*(e*x)**(-3*n - 1)*log(x), True)) + B*b**3*d*Piecewise((x*x**(5*n)
*(e*x)**(-3*n - 1)/(2*n), Ne(n, 0)), (x*x**(5*n)*(e*x)**(-3*n - 1)*log(x),
True)), Eq(m, -3*n - 1)), (A*a**3*c*Piecewise((0**(-2*n - 1)*x, Eq(e, 0)),
(Piecewise((-1/(2*n*(e*x)**(2*n)), Ne(n, 0)), (log(e*x), True))/e, True)) +
A*a**3*d*Piecewise((-x*x**n*(e*x)**(-2*n - 1)/n, Ne(n, 0)), (x*x**n*(e*x)*
*(-2*n - 1)*log(x), True)) + 3*A*a**2*b*c*Piecewise((-x*x**n*(e*x)**(-2*n -
1)/n, Ne(n, 0)), (x*x**n*(e*x)**(-2*n - 1)*log(x), True)) + 3*A*a**2*b*d*x
*x**(2*n)*(e*x)**(-2*n - 1)*log(x) + 3*A*a*b**2*c*x*x**(2*n)*(e*x)**(-2*n -
1)*log(x) + 3*A*a*b**2*d*Piecewise((x*x**(3*n)*(e*x)**(-2*n - 1)/n, Ne(n,
0)), (x*x**(3*n)*(e*x)**(-2*n - 1)*log(x), True)) + A*b**3*c*Piecewise((x*x
**(3*n)*(e*x)**(-2*n - 1)/n, Ne(n, 0)), (x*x**(3*n)*(e*x)**(-2*n - 1)*log(x
), True)) + A*b**3*d*Piecewise((x*x**(4*n)*(e*x)**(-2*n - 1)/(2*n), Ne(n, 0
)), (x*x**(4*n)*(e*x)**(-2*n - 1)*log(x), True)) + B*a**3*c*Piecewise((-x*x
**n*(e*x)**(-2*n - 1)/n, Ne(n, 0)), (x*x**n*(e*x)**(-2*n - 1)*log(x), True)
) + B*a**3*d*x*x**(2*n)*(e*x)**(-2*n - 1)*log(x) + 3*B*a**2*b*c*x*x**(2*n)*
(e*x)**(-2*n - 1)*log(x) + 3*B*a**2*b*d*Piecewise((x*x**(3*n)*(e*x)**(-2*n
- 1)/n, Ne(n, 0)), (x*x**(3*n)*(e*x)**(-2*n - 1)*log(x), True)) + 3*B*a*b**
2*c*Piecewise((x*x**(3*n)*(e*x)**(-2*n - 1)/n, Ne(n, 0)), (x*x**(3*n)*(e*x)
**(-2*n - 1)*log(x), True)) + 3*B*a*b**2*d*Piecewise((x*x**(4*n)*(e*x)**(-2

```


$n - 1)/(2*n), \text{Ne}(n, 0)), (x*x**(4*n)*(e*x)**(-2*n - 1)*\log(x), \text{True})) + B*b**3*c*\text{Piecewise}((x*x**(4*n)*(e*x)**(-2*n - 1)/(2*n), \text{Ne}(n, 0)), (x*x**(4*n)*(e*x)**(-2*n - 1)*\log(x), \text{True})) + B*b**3*d*\text{Piecewise}((x*x**(5*n)*(e*x)**(-2*n - 1)/(3*n), \text{Ne}(n, 0)), (x*x**(5*n)*(e*x)**(-2*n - 1)*\log(x), \text{True})), \text{Eq}(m, -2*n - 1)), (A*a**3*c*\text{Piecewise}((0**(-n - 1)*x, \text{Eq}(e, 0)), (\text{Piecewise}((-1/(n*(e*x)**n), \text{Ne}(n, 0)), (\log(e*x), \text{True}))/e, \text{True}))) + A*a**3*d*x*x**n*(e*x)**(-n - 1)*\log(x) + 3*A*a**2*b*c*x*x**n*(e*x)**(-n - 1)*\log(x) + 3*A*a**2*b*d*\text{Piecewise}((x*x**(2*n)*(e*x)**(-n - 1)/n, \text{Ne}(n, 0)), (x*x**(2*n)*(e*x)**(-n - 1)*\log(x), \text{True})) + 3*A*a*b**2*c*\text{Piecewise}((x*x**(2*n)*(e*x)**(-n - 1)/n, \text{Ne}(n, 0)), (x*x**(2*n)*(e*x)**(-n - 1)*\log(x), \text{True})) + 3*A*a*b**2*d*\text{Piecewise}((x*x**(3*n)*(e*x)**(-n - 1)/(2*n), \text{Ne}(n, 0)), (x*x**(3*n)*(e*x)**(-n - 1)*\log(x), \text{True})) + A*b**3*c*\text{Piecewise}((x*x**(3*n)*(e*x)**(-n - 1)/(2*n), \text{Ne}(n, 0)), (x*x**(3*n)*(e*x)**(-n - 1)*\log(x), \text{True})) + A*b**3*d*\text{Piecewise}((x*x**(4*n)*(e*x)**(-n - 1)/(3*n), \text{Ne}(n, 0)), (x*x**(4*n)*(e*x)**(-n - 1)*\log(x), \text{True})) + B*a**3*c*x*x**n*(e*x)**(-n - 1)*\log(x) + B*a**3*d*\text{Piecewise}((x*x**(2*n)*(e*x)**(-n - 1)/n, \text{Ne}(n, 0)), (x*x**(2*n)*(e*x)**(-n - 1)*\log(x), \text{True})) + 3*B*a**2*b*c*\text{Piecewise}((x*x**(2*n)*(e*x)**(-n - 1)/n, \text{Ne}(n, 0)), (x*x**(2*n)*(e*x)**(-n - 1)*\log(x), \text{True})) + 3*B*a**2*b*d*\text{Piecewise}((x*x**(3*n)*(e*x)**(-n - 1)/(2*n), \text{Ne}(n, 0)), (x*x**(3*n)*(e*x)**(-n - 1)*\log(x), \text{True})) + 3*B*a*b**2*c*\text{Piecewise}((x*x**(3*n)*(e*x)**(-n - 1)/(2*n), \text{Ne}(n, 0)), (x*x**(3*n)*(e*x)**(-n - 1)*\log(x), \text{True})) + 3*B*a*b**2*d*\text{Piecewise}((x*x**(4*n)*(e*x)**(-n - 1)/(3*n), \text{Ne}(n, 0)), (x*x**(4*n)*(e*x)**(-n - 1)*\log(x), \text{True})) + B*b**3*c*\text{Piecewise}((x*x**(4*n)*(e*x)**(-n - 1)/(3*n), \text{Ne}(n, 0)), (x*x**(4*n)*(e*x)**(-n - 1)*\log(x), \text{True})) + B*b**3*d*\text{Piecewise}((x*x**(5*n)*(e*x)**(-n - 1)/(4*n), \text{Ne}(n, 0)), (x*x**(5*n)*(e*x)**(-n - 1)*\log(x), \text{True})), \text{Eq}(m, -n - 1)), (A*a**3*c*m**5*x*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 15*A*a**3*c*m**4*n*x*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 5*A*a**3*c*m**4*x*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 60*A*a**3*c*m**3*n*x*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4$

$$\begin{aligned}
& 5n^2 + 15n + 1) + 71Aa^3d^3n^2xx^n(e^x)^m/(m^6 + 15m^5n \\
& n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 \\
& n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 \\
& + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 \\
& + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 56 \\
& Aa^3d^3n^2xx^n(e^x)^m/(m^6 + 15m^5n + 6m^5 + 85m^4n^2 \\
& + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 \\
& 3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + \\
& 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 \\
& + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 10Aa^3d^3n^2xx^n(e^x) \\
&)^m/(m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m \\
& m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2 \\
& n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 67 \\
& 5mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n \\
& n^2 + 15n + 1) + 154Aa^3d^2n^3xx^n(e^x)^m/(m^6 + 15m^5n \\
& + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n \\
& ^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 \\
& + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 \\
& + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 213 \\
& Aa^3d^2n^2xx^n(e^x)^m/(m^6 + 15m^5n + 6m^5 + 85m^4n^2 \\
& + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m \\
& m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 \\
& + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n \\
& ^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 84Aa^3d^2n^2xx^n \\
& (e^x)^m/(m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + \\
& 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675 \\
& m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 \\
& + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 \\
& + 85n^2 + 15n + 1) + 10Aa^3d^2n^2xx^n(e^x)^m/(m^6 + 15m^5n \\
& + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 \\
& + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + \\
& 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + \\
& 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 120* \\
& Aa^3d^2n^2xx^n(e^x)^m/(m^6 + 15m^5n + 6m^5 + 85m^4n^2 + \\
& 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 \\
& + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 1 \\
& 20mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 \\
& + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 308Aa^3d^2n^2xx^n(e \\
& ^x)^m/(m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 22 \\
& 5m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^ \\
& ^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + \\
& 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 8 \\
& 5n^2 + 15n + 1) + 213Aa^3d^2n^2xx^n(e^x)^m/(m^6 + 15m^5n \\
& + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^ \\
& ^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 +
\end{aligned}$$

$$\begin{aligned}
& 150m^{**2}n + 15m^{**2} + 120m^{*n**5} + 548m^{*n**4} + 675m^{*n**3} + 340m^{*n**2} + \\
& 75m^{*n} + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 56A \\
& *a^{**3}d^{*m^{*n}x^{*x}n^{*}}(e^{*x})^{**m}/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n \\
& + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 2 \\
& 74m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m \\
& *n^{**5} + 548m^{*n**4} + 675m^{*n**3} + 340m^{*n**2} + 75m^{*n} + 6m + 120n^{**5} + 27 \\
& 4n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 5A*a^{**3}d^{*m^{*n}x^{*x}n^{*}}(e^{*x})^{**m}/(m^{**6} \\
& + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} \\
& + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 5 \\
& 10m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m^{*n**5} + 548m^{*n**4} + 675m^{*n**3} \\
& + 340m^{*n**2} + 75m^{*n} + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15 \\
& *n + 1) + 120A*a^{**3}d^{*n^{**4}x^{*x}n^{*}}(e^{*x})^{**m}/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85 \\
& *m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3} \\
& *n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + \\
& 15m^{**2} + 120m^{*n**5} + 548m^{*n**4} + 675m^{*n**3} + 340m^{*n**2} + 75m^{*n} + 6m \\
& + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 154A*a^{**3}d^{*n^{**3} \\
& *x^{*x}n^{*}}(e^{*x})^{**m}/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15 \\
& *m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} \\
& + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m^{*n**5} + 548 \\
& *m^{*n**4} + 675m^{*n**3} + 340m^{*n**2} + 75m^{*n} + 6m + 120n^{**5} + 274n^{**4} + 22 \\
& 5n^{**3} + 85n^{**2} + 15n + 1) + 71A*a^{**3}d^{*n^{**2}x^{*x}n^{*}}(e^{*x})^{**m}/(m^{**6} + 15m^{**5}n \\
& + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} \\
& + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2} \\
& *n^{**2} + 150m^{**2}n + 15m^{**2} + 120m^{*n**5} + 548m^{*n**4} + 675m^{*n**3} + 340m^{*n**2} \\
& + 75m^{*n} + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) \\
& + 14A*a^{**3}d^{*n^{*x}x^{*x}n^{*}}(e^{*x})^{**m}/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} \\
& + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} \\
& + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + \\
& 120m^{*n**5} + 548m^{*n**4} + 675m^{*n**3} + 340m^{*n**2} + 75m^{*n} + 6m + 120n^{**5} \\
& + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + A*a^{**3}d^{*x^{*x}n^{*}}(e^{*x})^{**m}/(m^{**6} \\
& + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} \\
& + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + \\
& 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m^{*n**5} + 548m^{*n**4} + 675m^{*n**3} \\
& + 340m^{*n**2} + 75m^{*n} + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 1 \\
& 5n + 1) + 3A*a^{**2}b^{*c}m^{**5}x^{*x}n^{*}}(e^{*x})^{**m}/(m^{**6} + 15m^{**5}n + 6m^{**5} + 8 \\
& 5m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3} \\
& *n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n \\
& + 15m^{**2} + 120m^{*n**5} + 548m^{*n**4} + 675m^{*n**3} + 340m^{*n**2} + 75m^{*n} + 6m \\
& + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 42A*a^{**2}b^{*c}m^{**4}n^{*x}x^{*x}n^{*}}(e^{*x})^{**m}/(m^{**6} \\
& + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} \\
& + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} \\
& + 150m^{**2}n + 15m^{**2} + 120m^{*n**5} + 548m^{*n**4} + 675m^{*n**3} + 340m^{*n**2} + 75m^{*n} + 6m \\
& + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 15A*a^{**2}b^{*c}m^{**4}x^{*x}n^{*}}(e^{*x})^{**m}/(m^{**6} \\
& + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3}
\end{aligned}$$

$$\begin{aligned}
& *n^{**3} + 85*n^{**2} + 15*n + 1) + 639*A*a^{**2}*b*c*m*n^{**2}*x*x^{**n}*(e*x)^{**m}/(m^{**6} + \\
& 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + \\
& 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510* \\
& m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 3 \\
& 40*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n \\
& + 1) + 168*A*a^{**2}*b*c*m*n*x*x^{**n}*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m \\
& **4*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n \\
& + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 1 \\
& 5*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + \\
& 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 15*A*a^{**2}*b*c*m*x*x \\
& **n*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{** \\
& 4 + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + \\
& 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n \\
& **4 + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n* \\
& *3 + 85*n^{**2} + 15*n + 1) + 360*A*a^{**2}*b*c*n^{**4}*x*x^{**n}*(e*x)^{**m}/(m^{**6} + 15*m \\
& **5*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m \\
& **3*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}* \\
& n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m* \\
& n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) \\
& + 462*A*a^{**2}*b*c*n^{**3}*x*x^{**n}*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}* \\
& n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 2 \\
& 0*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m* \\
& *2 + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120 \\
& *n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 213*A*a^{**2}*b*c*n^{**2}*x*x \\
& **n*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{** \\
& 4 + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + \\
& 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n \\
& **4 + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n* \\
& *3 + 85*n^{**2} + 15*n + 1) + 42*A*a^{**2}*b*c*n*x*x^{**n}*(e*x)^{**m}/(m^{**6} + 15*m^{**5}* \\
& n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}* \\
& n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} \\
& + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} \\
& + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 3* \\
& A*a^{**2}*b*c*x*x^{**n}*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m \\
& **4*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 27 \\
& 4*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m* \\
& n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274 \\
& *n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 3*A*a^{**2}*b*d*m^{**5}*x*x^{**n}*(e*x) \\
& **m/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m \\
& **3*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}* \\
& n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675 \\
& *m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n \\
& **2 + 15*n + 1) + 39*A*a^{**2}*b*d*m^{**4}*n*x*x^{**n}*(e*x)^{**m}/(m^{**6} + 15*m^{**5}* \\
& n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}* \\
& n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2}
\end{aligned}$$

$$\begin{aligned}
& + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} \\
& + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 15 \\
& *A*a^{**2}*b*d*m^{**4}*x*x^{**}(2*n)*(e*x)^{**}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n \\
& **2 + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20 \\
& *m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{** \\
& 2 + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120* \\
& n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 177*A*a^{**2}*b*d*m^{**3}*n^{**2} \\
& *x*x^{**}(2*n)*(e*x)^{**}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n \\
& + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2} \\
& *n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + \\
& 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} \\
& + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 156*A*a^{**2}*b*d*m^{**3}*n*x*x^{**}(2*n)*(e*x)^{**} \\
& m/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{** \\
& 3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n* \\
& *3 + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m \\
& *n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{** \\
& 2 + 15*n + 1) + 30*A*a^{**2}*b*d*m^{**3}*x*x^{**}(2*n)*(e*x)^{**}/(m^{**6} + 15*m^{**5}*n + \\
& 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} \\
& + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 1 \\
& 50*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 7 \\
& 5*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 321*A* \\
& a^{**2}*b*d*m^{**2}*n^{**3}*x*x^{**}(2*n)*(e*x)^{**}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4} \\
& *n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + \\
& 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m \\
& **2 + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 12 \\
& 0*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 531*A*a^{**2}*b*d*m^{**2}*n* \\
& *2*x*x^{**}(2*n)*(e*x)^{**}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}* \\
& n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m* \\
& *2*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} \\
& + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{** \\
& 4 + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 234*A*a^{**2}*b*d*m^{**2}*n*x*x^{**}(2*n)*(e*x) \\
& **/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m \\
& **3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}* \\
& n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675 \\
& *m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n \\
& **2 + 15*n + 1) + 30*A*a^{**2}*b*d*m^{**2}*x*x^{**}(2*n)*(e*x)^{**}/(m^{**6} + 15*m^{**5}*n \\
& + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{** \\
& *2 + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + \\
& 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + \\
& 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 180* \\
& A*a^{**2}*b*d*m*n^{**4}*x*x^{**}(2*n)*(e*x)^{**}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}* \\
& n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 2 \\
& 0*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m* \\
& *2 + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120 \\
& *n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 642*A*a^{**2}*b*d*m*n^{**3}*x
\end{aligned}$$

$$\begin{aligned}
& *x^{(2n)}(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 531Aa^2b^2d^2m^2n^2x^2(e^x)^m / \\
& (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 156Aa^2b^2d^2m^2n^2x^2(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 15Aa^2b^2d^2m^2n^2x^2(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 180Aa^2b^2d^2n^4x^2(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 321Aa^2b^2d^2n^3x^2(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 177Aa^2b^2d^2n^2x^2(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 39Aa^2b^2d^2n^2x^2(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 3Aa^2b^2d^2x^2(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 3Aa^2b^2c^2m^5x^2(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) +
\end{aligned}$$

$$\begin{aligned}
& **2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 12 \\
& 0*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 39*A*a*b**2*c*m**4*n*x \\
& *x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + \\
& 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n \\
& **4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 5 \\
& 48*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + \\
& 225*n**3 + 85*n**2 + 15*n + 1) + 15*A*a*b**2*c*m**4*x*x**(2*n)*(e*x)**m/(m* \\
& *6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n** \\
& 3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + \\
& 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 \\
& + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 1 \\
& 5*n + 1) + 177*A*a*b**2*c*m**3*n**2*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + \\
& 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n** \\
& 2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + \\
& 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + \\
& 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 156*A \\
& *a*b**2*c*m**3*n*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n \\
& **2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20 \\
& *m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m** \\
& 2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120* \\
& n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 30*A*a*b**2*c*m**3*x*x** \\
& (2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m \\
& **4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 \\
& + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m \\
& *n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225* \\
& n**3 + 85*n**2 + 15*n + 1) + 321*A*a*b**2*c*m**2*n**3*x*x**(2*n)*(e*x)**m/(\\
& m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n \\
& **3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 \\
& + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n \\
& *3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + \\
& 15*n + 1) + 531*A*a*b**2*c*m**2*n**2*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n \\
& + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n \\
& **2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 \\
& + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 \\
& + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 234 \\
& *A*a*b**2*c*m**2*n*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4 \\
& *n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + \\
& 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m \\
& **2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 12 \\
& 0*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 30*A*a*b**2*c*m**2*x*x \\
& **2*(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15 \\
& *m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n** \\
& 4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548 \\
& *m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 22 \\
& 5*n**3 + 85*n**2 + 15*n + 1) + 180*A*a*b**2*c*m*n**4*x*x**(2*n)*(e*x)**m/(m
\end{aligned}$$

$$\begin{aligned}
& **6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n* \\
& *3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + \\
& 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n** \\
& 3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + \\
& 15*n + 1) + 642*A*a*b**2*c*m*n**3*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6 \\
& *m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 \\
& + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 15 \\
& 0*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75 \\
& *m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 531*A*a \\
& *b**2*c*m*n**2*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n** \\
& 2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m \\
& **3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 \\
& + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n* \\
& **5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 156*A*a*b**2*c*m*n*x*x**(2 \\
& *n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m** \\
& 4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + \\
& 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n \\
& **4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n* \\
& **3 + 85*n**2 + 15*n + 1) + 15*A*a*b**2*c*m*x*x**(2*n)*(e*x)**m/(m**6 + 15*m \\
& **5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m \\
& **3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2* \\
& n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m* \\
& n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) \\
& + 180*A*a*b**2*c*n**4*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m \\
& **4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n \\
& + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 1 \\
& 5*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + \\
& 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 321*A*a*b**2*c*n**3 \\
& *x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n \\
& + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2 \\
& *n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + \\
& 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 \\
& + 225*n**3 + 85*n**2 + 15*n + 1) + 177*A*a*b**2*c*n**2*x*x**(2*n)*(e*x)**m/ \\
& (m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3* \\
& n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 \\
& + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n \\
& **3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 \\
& + 15*n + 1) + 39*A*a*b**2*c*n*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m** \\
& 5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 15 \\
& 0*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m* \\
& **2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n \\
& + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 3*A*a*b**2* \\
& c*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n \\
& + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m** \\
& 2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5
\end{aligned}$$

$$\begin{aligned}
& + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 \\
& + 225*n**3 + 85*n**2 + 15*n + 1) + 3*A*a*b**2*d*m**5*x*x**(3*n)*(e*x)**m/(\\
& m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n \\
& **3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 \\
& + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n* \\
& *3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + \\
& 15*n + 1) + 36*A*a*b**2*d*m**4*n*x*x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6 \\
& *m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 \\
& + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 15 \\
& 0*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75 \\
& *m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 15*A*a* \\
& b**2*d*m**4*x*x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + \\
& 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 \\
& + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 1 \\
& 20*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 \\
& + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 147*A*a*b**2*d*m**3*n**2*x*x* \\
& *(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15* \\
& m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 \\
& + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548* \\
& m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225 \\
& *n**3 + 85*n**2 + 15*n + 1) + 144*A*a*b**2*d*m**3*n*x*x**(3*n)*(e*x)**m/(m* \\
& *6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n** \\
& 3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + \\
& 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 \\
& + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 1 \\
& 5*n + 1) + 30*A*a*b**2*d*m**3*x*x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m** \\
& 5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 15 \\
& 0*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m* \\
& *2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n \\
& + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 234*A*a*b** \\
& 2*d*m**2*n**3*x*x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 \\
& + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m* \\
& *3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + \\
& 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n** \\
& 5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 441*A*a*b**2*d*m**2*n**2*x* \\
& x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 1 \\
& 5*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n* \\
& *4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 54 \\
& 8*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 2 \\
& 25*n**3 + 85*n**2 + 15*n + 1) + 216*A*a*b**2*d*m**2*n*x*x**(3*n)*(e*x)**m/(\\
& m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n \\
& **3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 \\
& + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n* \\
& *3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + \\
& 15*n + 1) + 30*A*a*b**2*d*m**2*x*x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m
\end{aligned}$$

$$\begin{aligned}
& **5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + \\
& 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150* \\
& m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m \\
& *n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 120*A*a*b \\
& **2*d*m*n**4*x*x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 \\
& + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m** \\
& 3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + \\
& 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 \\
& + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 468*A*a*b**2*d*m*n**3*x*x** \\
& (3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m \\
& *4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + \\
& 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m \\
& n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n \\
& **3 + 85*n**2 + 15*n + 1) + 441*A*a*b**2*d*m*n**2*x*x**(3*n)*(e*x)**m/(m**6 \\
& + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 \\
& + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 51 \\
& 0*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + \\
& 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15* \\
& n + 1) + 144*A*a*b**2*d*m*n*x*x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 \\
& + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150* \\
& m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2 \\
& *n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + \\
& 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 15*A*a*b**2*d \\
& *m*x*x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4* \\
& n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m \\
& *2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 \\
& + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n** \\
& 4 + 225*n**3 + 85*n**2 + 15*n + 1) + 120*A*a*b**2*d*n**4*x*x**(3*n)*(e*x)** \\
& m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m** \\
& 3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n* \\
& *3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m \\
& *n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n** \\
& 2 + 15*n + 1) + 234*A*a*b**2*d*n**3*x*x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n + \\
& 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n** \\
& 2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + \\
& 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + \\
& 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 147*A \\
& *a*b**2*d*n**2*x*x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n** \\
& 2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m \\
& **3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 \\
& + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n* \\
& **5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 36*A*a*b**2*d*n*x*x**(3*n) \\
& *(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + \\
& 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675 \\
& *m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4
\end{aligned}$$

$$\begin{aligned}
& + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 \\
& + 85*n**2 + 15*n + 1) + 3*A*a*b**2*d*x*x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n \\
& + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n* \\
& *2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + \\
& 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + \\
& 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + A*b* \\
& *3*c*m**5*x*x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 7 \\
& 5*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + \\
& 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120 \\
& *m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + \\
& 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 12*A*b**3*c*m**4*n*x*x**(3*n)*(\\
& e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 2 \\
& 25*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m \\
& **2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + \\
& 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + \\
& 85*n**2 + 15*n + 1) + 5*A*b**3*c*m**4*x*x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n \\
& + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n \\
& **2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 \\
& + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 \\
& + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 49* \\
& A*b**3*c*m**3*n**2*x*x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4 \\
& *n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + \\
& 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m \\
& **2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 12 \\
& 0*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 48*A*b**3*c*m**3*n*x*x \\
& *(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15 \\
& *m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n** \\
& 4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548 \\
& *m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 22 \\
& 5*n**3 + 85*n**2 + 15*n + 1) + 10*A*b**3*c*m**3*x*x**(3*n)*(e*x)**m/(m**6 + \\
& 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + \\
& 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510* \\
& m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 3 \\
& 40*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n \\
& + 1) + 78*A*b**3*c*m**2*n**3*x*x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 \\
& + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150 \\
& *m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m** \\
& 2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n \\
& + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 147*A*b**3*c \\
& *m**2*n**2*x*x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + \\
& 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 \\
& + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 12 \\
& 0*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + \\
& 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 72*A*b**3*c*m**2*n*x*x**(3*n)* \\
& (e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 +
\end{aligned}$$

$$\begin{aligned}
& + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 12*A*b^{**3}*c*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**6} \\
& + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + \\
& 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510 \\
& *m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + \\
& 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n \\
& + 1) + A*b^{**3}*c*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n \\
& **2 + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20 \\
& *m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} \\
& 2 + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120* \\
& n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + A*b^{**3}*d*m^{**5}*x*x^{**}(4*n) \\
& *(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + \\
& 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675 \\
& *m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} \\
& + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} \\
& + 85*n^{**2} + 15*n + 1) + 11*A*b^{**3}*d*m^{**4}*n*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**6} + 15*m \\
& **5*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m \\
& **3*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}* \\
& n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m* \\
& n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) \\
& + 5*A*b^{**3}*d*m^{**4}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}* \\
& n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 2 \\
& 0*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m* \\
& *2 + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120 \\
& *n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 41*A*b^{**3}*d*m^{**3}*n^{**2}*x \\
& *x^{**}(4*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + \\
& 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n \\
& **4 + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 5 \\
& 48*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + \\
& 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 44*A*b^{**3}*d*m^{**3}*n*x*x^{**}(4*n)*(e*x)^{**m}/(m \\
& *6 + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} \\
& + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + \\
& 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} \\
& + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 1 \\
& 5*n + 1) + 10*A*b^{**3}*d*m^{**3}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} \\
& + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150* \\
& m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2} \\
& *n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + \\
& 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 61*A*b^{**3}*d*m \\
& **2*n^{**3}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75 \\
& *m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + \\
& 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120* \\
& m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 2 \\
& 74*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 123*A*b^{**3}*d*m^{**2}*n^{**2}*x*x^{**}(4*n) \\
& *(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} \\
& + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 67
\end{aligned}$$

$$\begin{aligned}
& / (m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3} \\
& *n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} \\
& + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m* \\
& n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} \\
& + 15*n + 1) + 11*A*b^{**3}*d*n*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} \\
& + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150 \\
& *m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2} \\
& *n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n \\
& + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + A*b^{**3}*d*x*x \\
& ** (4*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15 \\
& *m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} \\
& + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548 \\
& *m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 22 \\
& 5*n^{**3} + 85*n^{**2} + 15*n + 1) + B*a^{**3}*c*m^{**5}*x*x*x*x*n*(e*x)^{**m}/(m^{**6} + 15*m^{**5} \\
& *n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3} \\
& *n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n* \\
& *2 + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n* \\
& *2 + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + \\
& 14*B*a^{**3}*c*m^{**4}*n*x*x*x*n*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} \\
& + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m \\
& **3 + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} \\
& + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} \\
& + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 5*B*a^{**3}*c*m^{**4}*x*x*x*x*n*(e \\
& x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225 \\
& *m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2} \\
& *n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 6 \\
& 75*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85 \\
& *n^{**2} + 15*n + 1) + 71*B*a^{**3}*c*m^{**3}*n^{**2}*x*x*x*x*n*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n \\
& + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n \\
& **2 + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} \\
& + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} \\
& + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 56* \\
& B*a^{**3}*c*m^{**3}*n*x*x*x*x*n*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + \\
& 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} \\
& + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 1 \\
& 20*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} \\
& + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 10*B*a^{**3}*c*m^{**3}*x*x*x*x*n*(e*x) \\
& **m/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m \\
& **3*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}* \\
& n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675 \\
& *m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n \\
& **2 + 15*n + 1) + 154*B*a^{**3}*c*m^{**2}*n^{**3}*x*x*x*x*n*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n \\
& + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n* \\
& *2 + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + \\
& 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} +
\end{aligned}$$

$$\begin{aligned}
& 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 213* \\
& B*a**3*c*m**2*n**2*x*x**n*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n** \\
& 2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m \\
& **3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 \\
& + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n* \\
& *5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 84*B*a**3*c*m**2*n*x*x**n* \\
& (e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + \\
& 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675* \\
& m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 \\
& + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + \\
& 85*n**2 + 15*n + 1) + 10*B*a**3*c*m**2*x*x**n*(e*x)**m/(m**6 + 15*m**5*n + \\
& 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n** \\
& 2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + \\
& 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + \\
& 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 120*B \\
& *a**3*c*m*n**4*x*x**n*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + \\
& 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 \\
& + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 12 \\
& 0*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + \\
& 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 308*B*a**3*c*m*n**3*x*x**n*(e \\
& x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225 \\
& *m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m** \\
& 2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 6 \\
& 75*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85 \\
& *n**2 + 15*n + 1) + 213*B*a**3*c*m*n**2*x*x**n*(e*x)**m/(m**6 + 15*m**5*n + \\
& 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n** \\
& 2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + \\
& 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + \\
& 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 56*B \\
& a**3*c*m*n*x*x**n*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m \\
& **4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 27 \\
& 4*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m \\
& n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274 \\
& *n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 5*B*a**3*c*m*x*x**n*(e*x)**m/(m**6 \\
& + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 \\
& + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 51 \\
& 0*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + \\
& 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15* \\
& n + 1) + 120*B*a**3*c*n**4*x*x**n*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85* \\
& m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3* \\
& n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + \\
& 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m \\
& + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 154*B*a**3*c*n**3* \\
& x*x**n*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15* \\
& m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4
\end{aligned}$$

$$\begin{aligned}
& + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548* \\
& m^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225* \\
& n^{**3} + 85*n^{**2} + 15*n + 1) + 71*B*a^{**3}*c*n^{**2}*x*x^{**n}*(e*x)^{**m}/(m^{**6} + 15*m \\
& **5*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m \\
& **3*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}* \\
& n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m* \\
& n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) \\
& + 14*B*a^{**3}*c*n*x*x^{**n}*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + \\
& 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} \\
& + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 1 \\
& 20*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} \\
& + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + B*a^{**3}*c*x*x^{**n}*(e*x)^{**m}/(m^{**6} \\
& + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} \\
& + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 5 \\
& 10*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} \\
& + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15 \\
& *n + 1) + B*a^{**3}*d*m^{**5}*x*x^{**2*n}*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85 \\
& *m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3} \\
& *n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + \\
& 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m \\
& + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 13*B*a^{**3}*d*m^{**4}* \\
& n*x*x^{**2*n}*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n \\
& + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2} \\
& *n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} \\
& + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} \\
& + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 5*B*a^{**3}*d*m^{**4}*x*x^{**2*n}*(e*x)^{**m}/(m* \\
& *6 + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} \\
& + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + \\
& 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} \\
& + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 1 \\
& 5*n + 1) + 59*B*a^{**3}*d*m^{**3}*n^{**2}*x*x^{**2*n}*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6* \\
& m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + \\
& 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150 \\
& *m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75* \\
& m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 52*B*a^{**3} \\
& *d*m^{**3}*n*x*x^{**2*n}*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + \\
& 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} \\
& + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 12 \\
& 0*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + \\
& 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 10*B*a^{**3}*d*m^{**3}*x*x^{**2*n}*(e \\
& *x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 22 \\
& 5*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m* \\
& *2*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + \\
& 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 8 \\
& 5*n^{**2} + 15*n + 1) + 107*B*a^{**3}*d*m^{**2}*n^{**3}*x*x^{**2*n}*(e*x)^{**m}/(m^{**6} + 15*
\end{aligned}$$

$$\begin{aligned}
& m^{5n} + 6m^{5n} + 85m^{4n} + 75m^{4n} + 15m^{4n} + 225m^{3n} + 340m^{3n} \\
& + 150m^{3n} + 20m^{3n} + 274m^{2n} + 675m^{2n} + 510m^{2n} + 150m^{2n} \\
& + 150m^{2n} + 15m^{2n} + 120m^{2n} + 548m^{2n} + 675m^{2n} + 340m^{2n} \\
& + 75m^{2n} + 6m^{2n} + 120m^{2n} + 274m^{2n} + 225m^{2n} + 85m^{2n} + 15m^{2n} + 1) \\
& + 177B^3 d^2 m^{2n} x^{2n} (2^n) (e^x)^m / (m^6 + 15m^{5n} + 6m^{5n} + \\
& 85m^{4n} + 75m^{4n} + 15m^{4n} + 225m^{3n} + 340m^{3n} + 150m^{3n} \\
& + 20m^{3n} + 274m^{2n} + 675m^{2n} + 510m^{2n} + 150m^{2n} + 150m^{2n} \\
& + 15m^{2n} + 120m^{2n} + 548m^{2n} + 675m^{2n} + 340m^{2n} + 75m^{2n} + 6 \\
& m^{2n} + 120m^{2n} + 274m^{2n} + 225m^{2n} + 85m^{2n} + 15m^{2n} + 1) + 78B^3 d^2 m^{2n} \\
& x^{2n} (2^n) (e^x)^m / (m^6 + 15m^{5n} + 6m^{5n} + 85m^{4n} + 75m^{4n} \\
& + 15m^{4n} + 225m^{3n} + 340m^{3n} + 150m^{3n} + 20m^{3n} + 274m^{2n} \\
& + 675m^{2n} + 510m^{2n} + 150m^{2n} + 150m^{2n} + 15m^{2n} + 120m^{2n} \\
& + 548m^{2n} + 675m^{2n} + 340m^{2n} + 75m^{2n} + 6m^{2n} + 120m^{2n} + 274m^{2n} \\
& + 225m^{2n} + 85m^{2n} + 15m^{2n} + 1) + 10B^3 d^2 m^{2n} x^{2n} (2^n) (e^x)^m / \\
& (m^6 + 15m^{5n} + 6m^{5n} + 85m^{4n} + 75m^{4n} + 15m^{4n} + 225m^{3n} \\
& + 340m^{3n} + 150m^{3n} + 20m^{3n} + 274m^{2n} + 675m^{2n} + 510m^{2n} \\
& + 150m^{2n} + 150m^{2n} + 15m^{2n} + 120m^{2n} + 548m^{2n} + 675m^{2n} \\
& + 340m^{2n} + 75m^{2n} + 6m^{2n} + 120m^{2n} + 274m^{2n} + 225m^{2n} + 85m^{2n} \\
& + 15m^{2n} + 1) + 60B^3 d^4 m^{4n} x^{4n} (2^n) (e^x)^m / (m^6 + 15m^{5n} + 6m^{5n} \\
& + 85m^{4n} + 75m^{4n} + 15m^{4n} + 225m^{3n} + 340m^{3n} + 150m^{3n} \\
& + 20m^{3n} + 274m^{2n} + 675m^{2n} + 510m^{2n} + 150m^{2n} + 150m^{2n} \\
& + 15m^{2n} + 120m^{2n} + 548m^{2n} + 675m^{2n} + 340m^{2n} + 75m^{2n} + 6m^{2n} \\
& + 120m^{2n} + 274m^{2n} + 225m^{2n} + 85m^{2n} + 15m^{2n} + 1) + 214B^3 d^3 m^{3n} \\
& x^{3n} (2^n) (e^x)^m / (m^6 + 15m^{5n} + 6m^{5n} + 85m^{4n} + 75m^{4n} \\
& + 15m^{4n} + 225m^{3n} + 340m^{3n} + 150m^{3n} + 20m^{3n} + 274m^{2n} \\
& + 675m^{2n} + 510m^{2n} + 150m^{2n} + 150m^{2n} + 15m^{2n} + 120m^{2n} \\
& + 548m^{2n} + 675m^{2n} + 340m^{2n} + 75m^{2n} + 6m^{2n} + 120m^{2n} \\
& + 274m^{2n} + 225m^{2n} + 85m^{2n} + 15m^{2n} + 1) + 177B^3 d^2 m^{2n} x^{2n} (2^n) \\
& (e^x)^m / (m^6 + 15m^{5n} + 6m^{5n} + 85m^{4n} + 75m^{4n} + 15m^{4n} \\
& + 225m^{3n} + 340m^{3n} + 150m^{3n} + 20m^{3n} + 274m^{2n} + 675m^{2n} \\
& + 510m^{2n} + 150m^{2n} + 150m^{2n} + 15m^{2n} + 120m^{2n} + 548m^{2n} \\
& + 675m^{2n} + 340m^{2n} + 75m^{2n} + 6m^{2n} + 120m^{2n} + 274m^{2n} \\
& + 225m^{2n} + 85m^{2n} + 15m^{2n} + 1) + 52B^3 d^3 m^{3n} x^{3n} (2^n) (e^x)^m / (m^6 + 15m^{5n} \\
& + 6m^{5n} + 85m^{4n} + 75m^{4n} + 15m^{4n} + 225m^{3n} + 340m^{3n} \\
& + 150m^{3n} + 20m^{3n} + 274m^{2n} + 675m^{2n} + 510m^{2n} + 150m^{2n} \\
& + 150m^{2n} + 15m^{2n} + 120m^{2n} + 548m^{2n} + 675m^{2n} + 340m^{2n} \\
& + 75m^{2n} + 6m^{2n} + 120m^{2n} + 274m^{2n} + 225m^{2n} + 85m^{2n} + 15m^{2n} + 1) + \\
& 5B^3 d^3 m^{3n} x^{3n} (2^n) (e^x)^m / (m^6 + 15m^{5n} + 6m^{5n} + 85m^{4n} \\
& + 75m^{4n} + 15m^{4n} + 225m^{3n} + 340m^{3n} + 150m^{3n} + 20m^{3n} \\
& + 274m^{2n} + 675m^{2n} + 510m^{2n} + 150m^{2n} + 150m^{2n} + 15m^{2n} \\
& + 120m^{2n} + 548m^{2n} + 675m^{2n} + 340m^{2n} + 75m^{2n} + 6m^{2n} + 120m^{2n} \\
& + 274m^{2n} + 225m^{2n} + 85m^{2n} + 15m^{2n} + 1) + 60B^3 d^4 m^{4n} x^{4n} (2^n) \\
& (e^x)^m / (m^6 + 15m^{5n} + 6m^{5n} + 85m^{4n} + 75m^{4n} + 15m^{4n} + \\
& 225m^{3n} + 340m^{3n} + 150m^{3n} + 20m^{3n} + 274m^{2n} + 675m^{2n} \\
& + 510m^{2n} + 150m^{2n} + 150m^{2n} + 15m^{2n} + 120m^{2n} + 548m^{2n}
\end{aligned}$$

$$\begin{aligned}
& + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + \\
& 85*n**2 + 15*n + 1) + 107*B*a**3*d*n**3*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + \\
& 59*B*a**3*d*n**2*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 13*B*a**3*d*n*x*x**(2*n) * (e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + B*a**3*d*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 3*B*a**2 * b*c*m**5*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 39*B*a**2*b*c*m**4*n*x*x**(2*n) * (e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 15*B*a**2*b*c*m**4*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 177*B*a**2*b*c*m**3*n**2*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 156*B*a**2*b*c * m**3*n*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 30*B*a**2*b*c*m**3*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225
\end{aligned}$$

$$\begin{aligned}
& *m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 180*B*a \\
& **2*b*c*n**4*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 \\
& + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m** \\
& 3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + \\
& 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 \\
& + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 321*B*a**2*b*c*n**3*x*x**(2* \\
& n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 \\
& + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 6 \\
& 75*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n* \\
& **4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n** \\
& 3 + 85*n**2 + 15*n + 1) + 177*B*a**2*b*c*n**2*x*x**(2*n)*(e*x)**m/(m**6 + 1 \\
& 5*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 34 \\
& 0*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m* \\
& **2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340 \\
& *m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + \\
& 1) + 39*B*a**2*b*c*n*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m* \\
& **4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n \\
& + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15 \\
& *m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + \\
& 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 3*B*a**2*b*d*m**5*x*x**(2 \\
& *n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m** \\
& 4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + \\
& 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n \\
& **4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n* \\
& **3 + 85*n**2 + 15*n + 1) + 3*B*a**2*b*d*m**5*x*x**(3*n)*(e*x)**m/(m**6 + 15 \\
& *m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340 \\
& *m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m** \\
& 2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340* \\
& m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1 \\
&) + 36*B*a**2*b*d*m**4*n*x*x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 8 \\
& 5*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m** \\
& 3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n \\
& + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6* \\
& m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 15*B*a**2*b*d*m* \\
& **4*x*x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4* \\
& n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m* \\
& **2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 \\
& + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n** \\
& 4 + 225*n**3 + 85*n**2 + 15*n + 1) + 147*B*a**2*b*d*m**3*n**2*x*x**(3*n)*(e \\
& *x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 22 \\
& 5*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m* \\
& **2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + \\
& 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 8 \\
& 5*n**2 + 15*n + 1) + 144*B*a**2*b*d*m**3*n*x*x**(3*n)*(e*x)**m/(m**6 + 15*m \\
& **5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m
\end{aligned}$$

$$\begin{aligned}
& **3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2* \\
& n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m* \\
& n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) \\
& + 30*B*a**2*b*d*m**3*x*x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m** \\
& *4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n \\
& + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15 \\
& *m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + \\
& 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 234*B*a**2*b*d*m**2* \\
& n**3*x*x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m** \\
& 4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274* \\
& m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n* \\
& *5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n* \\
& **4 + 225*n**3 + 85*n**2 + 15*n + 1) + 441*B*a**2*b*d*m**2*n**2*x*x**(3*n)* \\
& (e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + \\
& 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675* \\
& m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 \\
& + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + \\
& 85*n**2 + 15*n + 1) + 216*B*a**2*b*d*m**2*n*x*x**(3*n)*(e*x)**m/(m**6 + 15 \\
& *m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340 \\
& *m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m** \\
& 2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340* \\
& m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1 \\
&) + 30*B*a**2*b*d*m**2*x*x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85* \\
& m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3* \\
& n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + \\
& 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m \\
& + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 120*B*a**2*b*d*m*n \\
& **4*x*x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4 \\
& *n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m \\
& **2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n** \\
& 5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n* \\
& **4 + 225*n**3 + 85*n**2 + 15*n + 1) + 468*B*a**2*b*d*m*n**3*x*x**(3*n)*(e*x \\
&)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225* \\
& m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2 \\
& *n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 67 \\
& 5*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85* \\
& n**2 + 15*n + 1) + 441*B*a**2*b*d*m*n**2*x*x**(3*n)*(e*x)**m/(m**6 + 15*m** \\
& 5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m** \\
& 3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n* \\
& *2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n* \\
& *2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + \\
& 144*B*a**2*b*d*m*n*x*x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4 \\
& *n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + \\
& 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m \\
& **2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 12
\end{aligned}$$

$$\begin{aligned}
& 0*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 15*B*a^{**2}*b*d*m*x*x^{**}(\\
& 3*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**} \\
& *4 + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + \\
& 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m* \\
& n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n \\
& **3 + 85*n^{**2} + 15*n + 1) + 120*B*a^{**2}*b*d*n^{**4}*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**6} + \\
& 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + \\
& 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510* \\
& m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 3 \\
& 40*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n \\
& + 1) + 234*B*a^{**2}*b*d*n^{**3}*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + \\
& 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m \\
& **3*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}* \\
& n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + \\
& 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 147*B*a^{**2}*b*d \\
& *n^{**2}*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m* \\
& *4*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274 \\
& *m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n \\
& **5 + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274* \\
& n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 36*B*a^{**2}*b*d*n*x*x^{**}(3*n)*(e*x)^{**m} \\
& /(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3} \\
& *n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**} \\
& 3 + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m* \\
& n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} \\
& + 15*n + 1) + 3*B*a^{**2}*b*d*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} \\
& + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150* \\
& m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2} \\
& *n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + \\
& 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 3*B*a*b^{**2}*c* \\
& m^{**5}*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**} \\
& 4*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274* \\
& m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n \\
& *5 + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n \\
& **4 + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 36*B*a*b^{**2}*c*m^{**4}*n*x*x^{**}(3*n)*(e*x \\
&)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225* \\
& m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2} \\
& *n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 67 \\
& 5*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85* \\
& n^{**2} + 15*n + 1) + 15*B*a*b^{**2}*c*m^{**4}*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n \\
& + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n \\
& **2 + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} \\
& + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} \\
& + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 147 \\
& *B*a*b^{**2}*c*m^{**3}*n^{**2}*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m \\
& **4*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n
\end{aligned}$$

$$\begin{aligned}
& + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 1 \\
& 5m^2 + 120mn^5 + 548m^4n + 675m^3n^3 + 340m^3n^2 + 75mn + 6m + \\
& 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 144B^2a^2b^2c^3m^3 \\
& n^3x^3(3n)(e^x)^m/(m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n \\
& n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^ \\
& 2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 \\
& + 548m^4n + 675m^3n^3 + 340m^3n^2 + 75mn + 6m + 120n^5 + 274n^ \\
& 4 + 225n^3 + 85n^2 + 15n + 1) + 30B^2a^2b^2c^3x^3(3n)(e^x)^m \\
& / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3 \\
& n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 \\
& 3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548m^4n + 675m \\
& n^3 + 340m^3n^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 \\
& + 15n + 1) + 234B^2a^2b^2c^2n^3x^3(3n)(e^x)^m/(m^6 + 15m^5 \\
& n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3 \\
& n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 \\
& 2 + 150m^2n + 15m^2 + 120mn^5 + 548m^4n + 675m^3n^3 + 340m^3n^ \\
& 2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 4 \\
& 41B^2a^2b^2c^2n^2x^3(3n)(e^x)^m/(m^6 + 15m^5n + 6m^5 + 85 \\
& m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3 \\
& n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + \\
& 15m^2 + 120mn^5 + 548m^4n + 675m^3n^3 + 340m^3n^2 + 75mn + 6m \\
& + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 216B^2a^2b^2c^m \\
& 2n^3x^3(3n)(e^x)^m/(m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^ \\
& 4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274 \\
& m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^ \\
& 5 + 548m^4n + 675m^3n^3 + 340m^3n^2 + 75mn + 6m + 120n^5 + 274n \\
& 4 + 225n^3 + 85n^2 + 15n + 1) + 30B^2a^2b^2c^2x^3(3n)(e^x) \\
& ^m/(m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m \\
& 3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n \\
& 3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548m^4n + 675 \\
& mn^3 + 340m^3n^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n \\
& 2 + 15n + 1) + 120B^2a^2b^2c^m^4n^3x^3(3n)(e^x)^m/(m^6 + 15m^5 \\
& n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n \\
& n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 \\
& + 150m^2n + 15m^2 + 120mn^5 + 548m^4n + 675m^3n^3 + 340m^3n^2 \\
& + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 46 \\
& 8B^2a^2b^2c^m^3n^3x^3(3n)(e^x)^m/(m^6 + 15m^5n + 6m^5 + 85m^ \\
& 4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + \\
& 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15 \\
& m^2 + 120mn^5 + 548m^4n + 675m^3n^3 + 340m^3n^2 + 75mn + 6m + 1 \\
& 20n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 441B^2a^2b^2c^m^2n^2 \\
& x^3(3n)(e^x)^m/(m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n \\
& + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2 \\
& n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + \\
& 548m^4n + 675m^3n^3 + 340m^3n^2 + 75mn + 6m + 120n^5 + 274n^4
\end{aligned}$$

$$\begin{aligned}
& + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 144*B*a*b^{**2}*c*m*n*x*x^{**3}*n*(e*x)^{**m}/(\\
& m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n \\
& **3 + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} \\
& + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n* \\
& *3 + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + \\
& 15*n + 1) + 15*B*a*b^{**2}*c*m*x*x^{**3}*n*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} \\
& + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150 \\
& *m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{** \\
& 2*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n \\
& + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 120*B*a*b^{**2} \\
& *c*n^{**4}*x*x^{**3}*n*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75* \\
& m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 2 \\
& 74*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m \\
& *n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 27 \\
& 4*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 234*B*a*b^{**2}*c*n^{**3}*x*x^{**3}*n*(e \\
& *x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 22 \\
& 5*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m* \\
& *2*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + \\
& 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 8 \\
& 5*n^{**2} + 15*n + 1) + 147*B*a*b^{**2}*c*n^{**2}*x*x^{**3}*n*(e*x)^{**m}/(m^{**6} + 15*m^{** \\
& 5*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{** \\
& 3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n* \\
& *2 + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n* \\
& *2 + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + \\
& 36*B*a*b^{**2}*c*n*x*x^{**3}*n*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n* \\
& *2 + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20* \\
& m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} \\
& + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n \\
& **5 + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 3*B*a*b^{**2}*c*x*x^{**3}*n*(\\
& e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 2 \\
& 25*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m \\
& **2*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + \\
& 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + \\
& 85*n^{**2} + 15*n + 1) + 3*B*a*b^{**2}*d*m^{**5}*x*x^{**4}*n*(e*x)^{**m}/(m^{**6} + 15*m^{**5} \\
& *n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3} \\
& *n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{** \\
& 2 + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{** \\
& 2 + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 3 \\
& 3*B*a*b^{**2}*d*m^{**4}*n*x*x^{**4}*n*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{** \\
& 4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + \\
& 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15* \\
& m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 1 \\
& 20*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 15*B*a*b^{**2}*d*m^{**4}*x* \\
& x^{**4}*n*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 1 \\
& 5*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n*
\end{aligned}$$

$$\begin{aligned}
& *4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 54 \\
& 8*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 2 \\
& 25*n**3 + 85*n**2 + 15*n + 1) + 123*B*a*b**2*d*m**3*n**2*x*x**(4*n)*(e*x)** \\
& m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m** \\
& 3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n* \\
& *3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m \\
& *n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n** \\
& 2 + 15*n + 1) + 132*B*a*b**2*d*m**3*n*x*x**(4*n)*(e*x)**m/(m**6 + 15*m**5*n \\
& + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n \\
& **2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 \\
& + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 \\
& + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 30* \\
& B*a*b**2*d*m**3*x*x**(4*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n* \\
& *2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20* \\
& m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 \\
& + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n \\
& **5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 183*B*a*b**2*d*m**2*n**3* \\
& x*x**(4*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + \\
& 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2* \\
& n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + \\
& 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + \\
& 225*n**3 + 85*n**2 + 15*n + 1) + 369*B*a*b**2*d*m**2*n**2*x*x**(4*n)*(e*x) \\
& **m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m \\
& **3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2* \\
& n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675 \\
& *m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n \\
& **2 + 15*n + 1) + 198*B*a*b**2*d*m**2*n*x*x**(4*n)*(e*x)**m/(m**6 + 15*m**5 \\
& *n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3 \\
& *n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n** \\
& 2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n** \\
& 2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 3 \\
& 0*B*a*b**2*d*m**2*x*x**(4*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4* \\
& n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 2 \\
& 0*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m* \\
& *2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120 \\
& *n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 90*B*a*b**2*d*m*n**4*x* \\
& x**(4*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 1 \\
& 5*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n* \\
& *4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 54 \\
& 8*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 2 \\
& 25*n**3 + 85*n**2 + 15*n + 1) + 366*B*a*b**2*d*m*n**3*x*x**(4*n)*(e*x)**m/(\\
& m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n \\
& **3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 \\
& + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n* \\
& *3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 +
\end{aligned}$$

$$\begin{aligned}
& 15*n + 1) + 369*B*a*b**2*d*m*n**2*x*x**(4*n)*(e*x)**m/(m**6 + 15*m**5*n + \\
& 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 \\
& + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 1 \\
& 50*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 7 \\
& 5*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 132*B* \\
& a*b**2*d*m*n*x*x**(4*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 \\
& + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m** \\
& 3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + \\
& 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 \\
& + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 15*B*a*b**2*d*m*x*x**(4*n)*(\\
& e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 2 \\
& 25*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m \\
& **2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + \\
& 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + \\
& 85*n**2 + 15*n + 1) + 90*B*a*b**2*d*n**4*x*x**(4*n)*(e*x)**m/(m**6 + 15*m** \\
& 5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m** \\
& 3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n* \\
& *2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n* \\
& *2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + \\
& 183*B*a*b**2*d*n**3*x*x**(4*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m** \\
& 4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + \\
& 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15* \\
& m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 1 \\
& 20*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 123*B*a*b**2*d*n**2*x \\
& *x**(4*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + \\
& 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n \\
& **4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 5 \\
& 48*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + \\
& 225*n**3 + 85*n**2 + 15*n + 1) + 33*B*a*b**2*d*n*x*x**(4*n)*(e*x)**m/(m**6 \\
& + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + \\
& 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510 \\
& *m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + \\
& 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n \\
& + 1) + 3*B*a*b**2*d*x*x**(4*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m* \\
& *4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n \\
& + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15 \\
& *m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + \\
& 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + B*b**3*c*m**5*x*x**(\\
& 4*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m* \\
& *4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + \\
& 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m* \\
& n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n \\
& **3 + 85*n**2 + 15*n + 1) + 11*B*b**3*c*m**4*n*x*x**(4*n)*(e*x)**m/(m**6 + \\
& 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 3 \\
& 40*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m
\end{aligned}$$

$$\begin{aligned}
& **2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 34 \\
& 0*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + \\
& 1) + 5*B*b**3*c*m**4*x*x**(4*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m \\
& **4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n \\
& + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 1 \\
& 5*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + \\
& 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 41*B*b**3*c*m**3*n* \\
& *2*x*x**(4*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n \\
& + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m* \\
& **2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 \\
& + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n** \\
& 4 + 225*n**3 + 85*n**2 + 15*n + 1) + 44*B*b**3*c*m**3*n*x*x**(4*n)*(e*x)**m \\
& /(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3 \\
& *n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n** \\
& 3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m* \\
& n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 \\
& + 15*n + 1) + 10*B*b**3*c*m**3*x*x**(4*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m \\
& **5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + \\
& 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150* \\
& m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m \\
& *n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 61*B*b**3 \\
& *c*m**2*n**3*x*x**(4*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 \\
& + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m** \\
& 3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + \\
& 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 \\
& + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 123*B*b**3*c*m**2*n**2*x*x** \\
& (4*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m \\
& **4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 \\
& + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m \\
& *n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225* \\
& n**3 + 85*n**2 + 15*n + 1) + 66*B*b**3*c*m**2*n*x*x**(4*n)*(e*x)**m/(m**6 + \\
& 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + \\
& 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510* \\
& m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 3 \\
& 40*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n \\
& + 1) + 10*B*b**3*c*m**2*x*x**(4*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85 \\
& *m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3 \\
& *n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + \\
& 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m \\
& + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 30*B*b**3*c*m*n** \\
& 4*x*x**(4*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n \\
& + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m** \\
& 2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 \\
& + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 \\
& + 225*n**3 + 85*n**2 + 15*n + 1) + 122*B*b**3*c*m*n**3*x*x**(4*n)*(e*x)**m
\end{aligned}$$

$$\begin{aligned}
& / (m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3} \\
& *n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} \\
& + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m* \\
& n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} \\
& + 15*n + 1) + 123*B*b^{**3}*c*m*n^{**2}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + \\
& 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} \\
& + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 1 \\
& 50*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 7 \\
& 5*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 44*B*b \\
& ^{**3}*c*m*n*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 7 \\
& 5*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + \\
& 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120 \\
& *m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + \\
& 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 5*B*b^{**3}*c*m*x*x^{**}(4*n)*(e*x)^{**} \\
& m/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{** \\
& 3*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n \\
& ^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m \\
& *n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{** \\
& 2 + 15*n + 1) + 30*B*b^{**3}*c*n^{**4}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6* \\
& m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + \\
& 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150 \\
& *m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75* \\
& m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 61*B*b^{** \\
& 3}*c*n^{**3}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75 \\
& *m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + \\
& 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120* \\
& m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 2 \\
& 74*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 41*B*b^{**3}*c*n^{**2}*x*x^{**}(4*n)*(e*x \\
&)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225* \\
& m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2} \\
& *n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 67 \\
& 5*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85* \\
& n^{**2} + 15*n + 1) + 11*B*b^{**3}*c*n*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6* \\
& m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + \\
& 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150 \\
& *m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75* \\
& m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + B*b^{**3}*c \\
& *x*x^{**}(4*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n \\
& + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2} \\
& *n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + \\
& 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} \\
& + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + B*b^{**3}*d*m^{**5}*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**6} \\
& + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + \\
& 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510 \\
& *m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} +
\end{aligned}$$

$$\begin{aligned}
& 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n \\
& + 1) + 10*B*b**3*d*m**4*n*x*x**(5*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + \\
& 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m \\
& **3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2* \\
& n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + \\
& 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 5*B*b**3*d*m** \\
& 4*x*x**(5*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n \\
& + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m** \\
& 2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 \\
& + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 \\
& + 225*n**3 + 85*n**2 + 15*n + 1) + 35*B*b**3*d*m**3*n**2*x*x**(5*n)*(e*x)* \\
& *m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m* \\
& **3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n \\
& **3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675* \\
& m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n* \\
& *2 + 15*n + 1) + 40*B*b**3*d*m**3*n*x*x**(5*n)*(e*x)**m/(m**6 + 15*m**5*n + \\
& 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n** \\
& 2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + \\
& 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + \\
& 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 10*B \\
& b**3*d*m**3*x*x**(5*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + \\
& 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 \\
& + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 1 \\
& 20*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 \\
& + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 50*B*b**3*d*m**2*n**3*x*x**(5 \\
& *n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m** \\
& 4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + \\
& 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n \\
& **4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n* \\
& **3 + 85*n**2 + 15*n + 1) + 105*B*b**3*d*m**2*n**2*x*x**(5*n)*(e*x)**m/(m**6 \\
& + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 \\
& + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 51 \\
& 0*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + \\
& 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15* \\
& n + 1) + 60*B*b**3*d*m**2*n*x*x**(5*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 \\
& + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150* \\
& m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2 \\
& *n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + \\
& 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 10*B*b**3*d*m \\
& **2*x*x**(5*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4 \\
& *n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m \\
& **2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n** \\
& 5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n* \\
& **4 + 225*n**3 + 85*n**2 + 15*n + 1) + 24*B*b**3*d*m*n**4*x*x**(5*n)*(e*x)** \\
& m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**
\end{aligned}$$

$$\begin{aligned}
& 3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 \\
& + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675m \\
& n^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 \\
& + 15n + 1) + 100B^3d^3m^3n^3x^3(5n)(e^x)^3/(m^6 + 15m^5n + \\
& 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 \\
& + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + \\
& 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + \\
& 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 105B \\
& ^3d^3m^2n^2x^3(5n)(e^x)^3/(m^6 + 15m^5n + 6m^5 + 85m^4n^2 \\
& + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m \\
& ^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 \\
& + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 \\
& + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 40B^3d^3m^2n^2x^3(5n) \\
& (e^x)^3/(m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + \\
& 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675 \\
& m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 \\
& + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 \\
& + 85n^2 + 15n + 1) + 5B^3d^3m^2n^2x^3(5n)(e^x)^3/(m^6 + 15m^5n \\
& + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 \\
& + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + \\
& 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + \\
& 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 24B \\
& ^3d^3m^2n^2x^3(5n)(e^x)^3/(m^6 + 15m^5n + 6m^5 + 85m^4n^2 \\
& + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 \\
& + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + \\
& 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 \\
& + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 50B^3d^3m^2n^2x^3(5n) \\
& (e^x)^3/(m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + \\
& 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m \\
& ^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 \\
& + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + \\
& 85n^2 + 15n + 1) + 35B^3d^3m^2n^2x^3(5n)(e^x)^3/(m^6 + 15m^5 \\
& n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3 \\
& n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 \\
& + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 \\
& + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 1 \\
& 0B^3d^3m^2n^2x^3(5n)(e^x)^3/(m^6 + 15m^5n + 6m^5 + 85m^4n^2 \\
& + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 \\
& + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + \\
& 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 \\
& + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + B^3d^3m^2n^2x^3(5n)(e^x)^3 \\
& / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3 \\
& n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 \\
& + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675m \\
& n^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2
\end{aligned}$$

+ 15*n + 1), True))

Maxima [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 464 vs. 2(210) = 420.

Time = 0.25 (sec) , antiderivative size = 464, normalized size of antiderivative = 2.21

$$\int (ex)^m (a + bx^n)^3 (A + Bx^n) (c + dx^n) dx$$

$$= \frac{Bb^3de^mxe^{(m\log(x)+5n\log(x))}}{m+5n+1} + \frac{Bb^3ce^mxe^{(m\log(x)+4n\log(x))}}{m+4n+1} + \frac{3Bab^2de^mxe^{(m\log(x)+4n\log(x))}}{m+4n+1}$$

$$+ \frac{Ab^3de^mxe^{(m\log(x)+4n\log(x))}}{m+4n+1} + \frac{3Bab^2ce^mxe^{(m\log(x)+3n\log(x))}}{m+3n+1} + \frac{Ab^3ce^mxe^{(m\log(x)+3n\log(x))}}{m+3n+1}$$

$$+ \frac{3Ba^2bde^mxe^{(m\log(x)+3n\log(x))}}{m+3n+1} + \frac{3Aab^2de^mxe^{(m\log(x)+3n\log(x))}}{m+3n+1}$$

$$+ \frac{3Ba^2bce^mxe^{(m\log(x)+2n\log(x))}}{m+2n+1} + \frac{3Aab^2ce^mxe^{(m\log(x)+2n\log(x))}}{m+2n+1}$$

$$+ \frac{Ba^3de^mxe^{(m\log(x)+2n\log(x))}}{m+2n+1} + \frac{3Aa^2bde^mxe^{(m\log(x)+2n\log(x))}}{m+2n+1} + \frac{Ba^3ce^mxe^{(m\log(x)+n\log(x))}}{m+n+1}$$

$$+ \frac{3Aa^2bce^mxe^{(m\log(x)+n\log(x))}}{m+n+1} + \frac{Aa^3de^mxe^{(m\log(x)+n\log(x))}}{m+n+1} + \frac{(ex)^{m+1}Aa^3c}{e(m+1)}$$

[In] integrate((e*x)^m*(a+b*x^n)^3*(A+B*x^n)*(c+d*x^n),x, algorithm="maxima")

[Out] B*b^3*d*e^m*x*e^(m*log(x) + 5*n*log(x))/(m + 5*n + 1) + B*b^3*c*e^m*x*e^(m*log(x) + 4*n*log(x))/(m + 4*n + 1) + 3*B*a*b^2*d*e^m*x*e^(m*log(x) + 4*n*log(x))/(m + 4*n + 1) + A*b^3*d*e^m*x*e^(m*log(x) + 4*n*log(x))/(m + 4*n + 1) + 3*B*a*b^2*c*e^m*x*e^(m*log(x) + 3*n*log(x))/(m + 3*n + 1) + A*b^3*c*e^m*x*e^(m*log(x) + 3*n*log(x))/(m + 3*n + 1) + 3*B*a^2*b*d*e^m*x*e^(m*log(x) + 3*n*log(x))/(m + 3*n + 1) + 3*A*a*b^2*d*e^m*x*e^(m*log(x) + 3*n*log(x))/(m + 3*n + 1) + 3*B*a^2*b*c*e^m*x*e^(m*log(x) + 2*n*log(x))/(m + 2*n + 1) + 3*A*a*b^2*c*e^m*x*e^(m*log(x) + 2*n*log(x))/(m + 2*n + 1) + B*a^3*d*e^m*x*e^(m*log(x) + 2*n*log(x))/(m + 2*n + 1) + 3*A*a^2*b*d*e^m*x*e^(m*log(x) + 2*n*log(x))/(m + 2*n + 1) + B*a^3*c*e^m*x*e^(m*log(x) + n*log(x))/(m + n + 1) + 3*A*a^2*b*c*e^m*x*e^(m*log(x) + n*log(x))/(m + n + 1) + A*a^3*d*e^m*x*e^(m*log(x) + n*log(x))/(m + n + 1) + (e*x)^(m + 1)*A*a^3*c/(e*(m + 1))

Giac [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 27992 vs. 2(210) = 420.

Time = 0.49 (sec) , antiderivative size = 27992, normalized size of antiderivative = 133.30

$$\int (ex)^m (a + bx^n)^3 (A + Bx^n) (c + dx^n) dx = \text{Too large to display}$$

[In] integrate((e*x)^m*(a+b*x^n)^3*(A+B*x^n)*(c+d*x^n),x, algorithm="giac")

[Out] (B*b^3*d*m^5*x*x^(5*n)*e^(m*log(e) + m*log(x)) + 10*B*b^3*d*m^4*n*x*x^(5*n)*e^(m*log(e) + m*log(x)) + 35*B*b^3*d*m^3*n^2*x*x^(5*n)*e^(m*log(e) + m*log(x)) + 50*B*b^3*d*m^2*n^3*x*x^(5*n)*e^(m*log(e) + m*log(x)) + 24*B*b^3*d*m*n^4*x*x^(5*n)*e^(m*log(e) + m*log(x)) + B*b^3*c*m^5*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 3*B*a*b^2*d*m^5*x*x^(4*n)*e^(m*log(e) + m*log(x)) + A*b^3*d*m^5*x*x^(4*n)*e^(m*log(e) + m*log(x)) + B*b^3*d*m^5*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 11*B*b^3*c*m^4*n*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 33*B*a*b^2*d*m^4*n*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 11*A*b^3*d*m^4*n*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 10*B*b^3*d*m^4*n*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 41*B*b^3*c*m^3*n^2*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 123*B*a*b^2*d*m^3*n^2*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 41*A*b^3*d*m^3*n^2*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 35*B*b^3*d*m^3*n^2*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 61*B*b^3*c*m^2*n^3*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 183*B*a*b^2*d*m^2*n^3*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 61*A*b^3*d*m^2*n^3*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 50*B*b^3*d*m^2*n^3*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 30*B*b^3*c*m*n^4*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 90*B*a*b^2*d*m*n^4*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 30*A*b^3*d*m*n^4*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 24*B*b^3*d*m*n^4*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 3*B*a*b^2*c*m^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + A*b^3*c*m^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + B*b^3*c*m^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 3*B*a^2*b*d*m^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 3*A*a*b^2*d*m^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 3*B*a*b^2*d*m^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + A*b^3*d*m^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + B*b^3*d*m^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 36*B*a*b^2*c*m^4*n*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 12*A*b^3*c*m^4*n*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 11*B*b^3*c*m^4*n*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 36*B*a^2*b*d*m^4*n*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 36*A*a*b^2*d*m^4*n*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 33*B*a*b^2*d*m^4*n*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 11*A*b^3*d*m^4*n*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 10*B*b^3*d*m^4*n*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 147*B*a*b^2*c*m^3*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 49*A*b^3*c*m^3*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 41*B*b^3*c*m^3*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 147*B*a^2*b*d*m^3*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 147*A*a*b^2*d*m^3*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 123*B*a*b^2*d*m^3*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 41*A*b^3*d*m^3*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 35*B*b^3*d*m^3*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 234*B*

$$\begin{aligned}
& a*b^2*c*m^2*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 78*A*b^3*c*m^2*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 61*B*b^3*c*m^2*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 234*B*a^2*b*d*m^2*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 234*A*a*b^2*d*m^2*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 183*B*a*b^2*d*m^2*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 61*A*b^3*d*m^2*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 50*B*b^3*d*m^2*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 120*B*a*b^2*c*m*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 40*A*b^3*c*m*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 30*B*b^3*c*m*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 120*B*a^2*b*d*m*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 120*A*a*b^2*d*m*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 90*B*a*b^2*d*m*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 30*A*b^3*d*m*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 24*B*b^3*d*m*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*a^2*b*c*m^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3*A*a*b^2*c*m^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*a*b^2*c*m^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + A*b^3*c*m^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + B*b^3*c*m^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + B*a^3*d*m^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3*A*a^2*b*d*m^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*a^2*b*d*m^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3*A*a*b^2*d*m^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*a*b^2*d*m^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + A*b^3*d*m^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + B*b^3*d*m^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 39*B*a^2*b*c*m^4*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 39*A*a*b^2*c*m^4*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 36*B*a*b^2*c*m^4*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 12*A*b^3*c*m^4*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 11*B*b^3*c*m^4*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 13*B*a^3*d*m^4*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 39*A*a^2*b*d*m^4*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 36*B*a^2*b*d*m^4*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 36*A*a*b^2*d*m^4*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 33*B*a*b^2*d*m^4*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 11*A*b^3*d*m^4*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 10*B*b^3*d*m^4*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 177*B*a^2*b*c*m^3*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 177*A*a*b^2*c*m^3*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 147*B*a*b^2*c*m^3*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 49*A*b^3*c*m^3*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 41*B*b^3*c*m^3*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 59*B*a^3*d*m^3*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 177*A*a^2*b*d*m^3*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 147*B*a^2*b*d*m^3*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 147*A*a*b^2*d*m^3*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 123*B*a*b^2*d*m^3*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 41*A*b^3*d*m^3*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 35*B*b^3*d*m^3*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 321*B*a^2*b*c*m^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 321*A*a*b^2*c*m^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 234*B*a*b^2*c*m^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 78*A*b^3*c*m^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 61*B*b^3*c*m^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 107*B*a^3*d*m^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 321*A*a^2*b*d*m^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 234*B*a^2*b*d*m^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 234*A*a*b^2*d*m^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 183*B*a*b^2*d*m^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} +
\end{aligned}$$

$$\begin{aligned}
& m \log(x)) + 61A^3b^3d^2m^2n^3xxx^{(2n)}e^{(m \log(e) + m \log(x))} + 50B^3b^3 \\
& 3d^2m^2n^3xxx^{(2n)}e^{(m \log(e) + m \log(x))} + 180B^2a^2b^3c^2m^2n^4xxx^{(2n)}e^{(m \log(e) + m \log(x))} \\
& + 180A^2a^2b^2c^2m^2n^4xxx^{(2n)}e^{(m \log(e) + m \log(x))} + 120B^2a^2b^2c^2m^2n^4xxx^{(2n)}e^{(m \log(e) + m \log(x))} \\
& + 40A^3b^3c^2m^2n^4xxx^{(2n)}e^{(m \log(e) + m \log(x))} + 30B^3b^3c^2m^2n^4xxx^{(2n)}e^{(m \log(e) + m \log(x))} \\
& + 60B^2a^3d^2m^2n^4xxx^{(2n)}e^{(m \log(e) + m \log(x))} + 180A^2a^2b^2d^2m^2n^4xxx^{(2n)}e^{(m \log(e) + m \log(x))} \\
& + 120B^2a^2b^2d^2m^2n^4xxx^{(2n)}e^{(m \log(e) + m \log(x))} + 120A^2a^2b^2d^2m^2n^4xxx^{(2n)}e^{(m \log(e) + m \log(x))} \\
& + 90B^2a^2b^2d^2m^2n^4xxx^{(2n)}e^{(m \log(e) + m \log(x))} + 30A^3b^3d^2m^2n^4xxx^{(2n)}e^{(m \log(e) + m \log(x))} \\
& + 24B^3b^3d^2m^2n^4xxx^{(2n)}e^{(m \log(e) + m \log(x))} + B^2a^3c^2m^5xxx^n e^{(m \log(e) + m \log(x))} + 3A^2a^2b^3c^2m^5xxx^n e^{(m \log(e) + m \log(x))} \\
& + 3B^2a^2b^3c^2m^5xxx^n e^{(m \log(e) + m \log(x))} + 3A^2a^2b^2c^2m^5xxx^n e^{(m \log(e) + m \log(x))} + A^3b^3c^2m^5xxx^n e^{(m \log(e) + m \log(x))} \\
& + B^3b^3c^2m^5xxx^n e^{(m \log(e) + m \log(x))} + A^3a^3d^2m^5xxx^n e^{(m \log(e) + m \log(x))} + B^2a^3d^2m^5xxx^n e^{(m \log(e) + m \log(x))} \\
& + 3A^2a^2b^2d^2m^5xxx^n e^{(m \log(e) + m \log(x))} + 3B^2a^2b^2d^2m^5xxx^n e^{(m \log(e) + m \log(x))} + 3A^2a^2b^2d^2m^5xxx^n e^{(m \log(e) + m \log(x))} \\
& + 3B^2a^2b^2d^2m^5xxx^n e^{(m \log(e) + m \log(x))} + A^3b^3d^2m^5xxx^n e^{(m \log(e) + m \log(x))} + B^3b^3d^2m^5xxx^n e^{(m \log(e) + m \log(x))} \\
& + 14B^2a^3c^2m^4n^2xxx^n e^{(m \log(e) + m \log(x))} + 42A^2a^2b^3c^2m^4n^2xxx^n e^{(m \log(e) + m \log(x))} + 39B^2a^2b^3c^2m^4n^2xxx^n e^{(m \log(e) + m \log(x))} \\
& + 39A^2a^2b^2c^2m^4n^2xxx^n e^{(m \log(e) + m \log(x))} + 36B^2a^2b^2c^2m^4n^2xxx^n e^{(m \log(e) + m \log(x))} + 12A^3b^3c^2m^4n^2xxx^n e^{(m \log(e) + m \log(x))} \\
& + 11B^3b^3c^2m^4n^2xxx^n e^{(m \log(e) + m \log(x))} + 14A^2a^3d^2m^4n^2xxx^n e^{(m \log(e) + m \log(x))} + 13B^2a^3d^2m^4n^2xxx^n e^{(m \log(e) + m \log(x))} \\
& + 39A^2a^2b^2d^2m^4n^2xxx^n e^{(m \log(e) + m \log(x))} + 36B^2a^2b^2d^2m^4n^2xxx^n e^{(m \log(e) + m \log(x))} + 36A^2a^2b^2d^2m^4n^2xxx^n e^{(m \log(e) + m \log(x))} \\
& + 33B^2a^2b^2d^2m^4n^2xxx^n e^{(m \log(e) + m \log(x))} + 11A^3b^3d^2m^4n^2xxx^n e^{(m \log(e) + m \log(x))} + 10B^3b^3d^2m^4n^2xxx^n e^{(m \log(e) + m \log(x))} \\
& + 71B^2a^3c^2m^3n^2xxx^n e^{(m \log(e) + m \log(x))} + 213A^2a^2b^3c^2m^3n^2xxx^n e^{(m \log(e) + m \log(x))} + 177B^2a^2b^3c^2m^3n^2xxx^n e^{(m \log(e) + m \log(x))} \\
& + 177A^2a^2b^2c^2m^3n^2xxx^n e^{(m \log(e) + m \log(x))} + 147B^2a^2b^2c^2m^3n^2xxx^n e^{(m \log(e) + m \log(x))} + 49A^3b^3c^2m^3n^2xxx^n e^{(m \log(e) + m \log(x))} \\
& + 41B^3b^3c^2m^3n^2xxx^n e^{(m \log(e) + m \log(x))} + 71A^2a^3d^2m^3n^2xxx^n e^{(m \log(e) + m \log(x))} + 59B^2a^3d^2m^3n^2xxx^n e^{(m \log(e) + m \log(x))} \\
& + 177A^2a^2b^2d^2m^3n^2xxx^n e^{(m \log(e) + m \log(x))} + 147B^2a^2b^2d^2m^3n^2xxx^n e^{(m \log(e) + m \log(x))} + 147A^2a^2b^2d^2m^3n^2xxx^n e^{(m \log(e) + m \log(x))} \\
& + 123B^2a^2b^2d^2m^3n^2xxx^n e^{(m \log(e) + m \log(x))} + 41A^3b^3d^2m^3n^2xxx^n e^{(m \log(e) + m \log(x))} + 35B^3b^3d^2m^3n^2xxx^n e^{(m \log(e) + m \log(x))} \\
& + 154B^2a^3c^2m^2n^3xxx^n e^{(m \log(e) + m \log(x))} + 462A^2a^2b^3c^2m^2n^3xxx^n e^{(m \log(e) + m \log(x))} + 321B^2a^2b^3c^2m^2n^3xxx^n e^{(m \log(e) + m \log(x))} \\
& + 321A^2a^2b^2c^2m^2n^3xxx^n e^{(m \log(e) + m \log(x))} + 234B^2a^2b^2c^2m^2n^3xxx^n e^{(m \log(e) + m \log(x))} + 78A^3b^3c^2m^2n^3xxx^n e^{(m \log(e) + m \log(x))} \\
& + 61B^3b^3c^2m^2n^3xxx^n e^{(m \log(e) + m \log(x))} + m \log(
\end{aligned}$$

$x)) + 154*A*a^3*d*m^2*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 107*B*a^3*d*m^2*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 321*A*a^2*b*d*m^2*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 234*B*a^2*b*d*m^2*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 234*A*a*b^2*d*m^2*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 183*B*a*b^2*d*m^2*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 61*A*b^3*d*m^2*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 50*B*b^3*d*m^2*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 120*B*a^3*c*m*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 360*A*a^2*b*c*m*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 180*B*a^2*b*c*m*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 180*A*a*b^2*c*m*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 40*A*b^3*c*m*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 30*B*b^3*c*m*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 120*A*a^3*d*m*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 60*B*a^3*d*m*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 180*A*a^2*b*d*m*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 120*B*a^2*b*d*m*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 120*A*a*b^2*d*m*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 90*B*a*b^2*d*m*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 30*A*b^3*d*m*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 24*B*b^3*d*m*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + A*a^3*c*m^5*x*e^{(m*\log(e) + m*\log(x))} + B*a^3*c*m^5*x*e^{(m*\log(e) + m*\log(x))} + 3*A*a^2*b*c*m^5*x*e^{(m*\log(e) + m*\log(x))} + 3*B*a^2*b*c*m^5*x*e^{(m*\log(e) + m*\log(x))} + 3*A*a*b^2*c*m^5*x*e^{(m*\log(e) + m*\log(x))} + 3*B*a*b^2*c*m^5*x*e^{(m*\log(e) + m*\log(x))} + A*b^3*c*m^5*x*e^{(m*\log(e) + m*\log(x))} + B*b^3*c*m^5*x*e^{(m*\log(e) + m*\log(x))} + A*a^3*d*m^5*x*e^{(m*\log(e) + m*\log(x))} + B*a^3*d*m^5*x*e^{(m*\log(e) + m*\log(x))} + 3*A*a^2*b*d*m^5*x*e^{(m*\log(e) + m*\log(x))} + 3*B*a^2*b*d*m^5*x*e^{(m*\log(e) + m*\log(x))} + 3*A*a*b^2*d*m^5*x*e^{(m*\log(e) + m*\log(x))} + 3*B*a*b^2*d*m^5*x*e^{(m*\log(e) + m*\log(x))} + A*b^3*d*m^5*x*e^{(m*\log(e) + m*\log(x))} + B*b^3*d*m^5*x*e^{(m*\log(e) + m*\log(x))} + 15*A*a^3*c*m^4*n*x*e^{(m*\log(e) + m*\log(x))} + 14*B*a^3*c*m^4*n*x*e^{(m*\log(e) + m*\log(x))} + 42*A*a^2*b*c*m^4*n*x*e^{(m*\log(e) + m*\log(x))} + 39*B*a^2*b*c*m^4*n*x*e^{(m*\log(e) + m*\log(x))} + 39*A*a*b^2*c*m^4*n*x*e^{(m*\log(e) + m*\log(x))} + 36*B*a*b^2*c*m^4*n*x*e^{(m*\log(e) + m*\log(x))} + 12*A*b^3*c*m^4*n*x*e^{(m*\log(e) + m*\log(x))} + 11*B*b^3*c*m^4*n*x*e^{(m*\log(e) + m*\log(x))} + 14*A*a^3*d*m^4*n*x*e^{(m*\log(e) + m*\log(x))} + 13*B*a^3*d*m^4*n*x*e^{(m*\log(e) + m*\log(x))} + 39*A*a^2*b*d*m^4*n*x*e^{(m*\log(e) + m*\log(x))} + 36*B*a^2*b*d*m^4*n*x*e^{(m*\log(e) + m*\log(x))} + 36*A*a*b^2*d*m^4*n*x*e^{(m*\log(e) + m*\log(x))} + 33*B*a*b^2*d*m^4*n*x*e^{(m*\log(e) + m*\log(x))} + 11*A*b^3*d*m^4*n*x*e^{(m*\log(e) + m*\log(x))} + 10*B*b^3*d*m^4*n*x*e^{(m*\log(e) + m*\log(x))} + 85*A*a^3*c*m^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 71*B*a^3*c*m^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 213*A*a^2*b*c*m^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 177*B*a^2*b*c*m^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 177*A*a*b^2*c*m^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 147*B*a*b^2*c*m^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 49*A*b^3*c*m^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 41*B*b^3*c*m^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 71*A*a^3*d*m^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 59*B*a^3*d*m^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 177*A*a^2*b*d*m^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 147*B*a^2*b*d*m^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 147*A*a*b^2*d*m^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 123*B*a*b^2*d*m^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 41*A*b^3*d*m^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 35*B*b^3*d*m^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 225$

$$\begin{aligned}
& *A^3*c*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 154*B^3*c*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 462*A^2*b*c*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 321*B^2*b*c*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 321*A^2*b^2*c*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 234*B^2*b^2*c*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 78*A^3*b^3*c*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 61*B^3*b^3*c*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 154*A^3*d*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 107*B^3*d*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 321*A^2*b*d*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 234*B^2*b*d*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 234*A^2*b^2*d*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 183*B^2*b^2*d*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 61*A^3*b^3*d*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 50*B^3*b^3*d*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 274*A^3*c*m^n^4*x*e^{(m*\log(e) + m*\log(x))} + 120*B^3*c*m^n^4*x*e^{(m*\log(e) + m*\log(x))} + 360*A^2*b*c*m^n^4*x*e^{(m*\log(e) + m*\log(x))} + 180*B^2*b*c*m^n^4*x*e^{(m*\log(e) + m*\log(x))} + 180*A^2*b^2*c*m^n^4*x*e^{(m*\log(e) + m*\log(x))} + 120*B^2*b^2*c*m^n^4*x*e^{(m*\log(e) + m*\log(x))} + 40*A^3*b^3*c*m^n^4*x*e^{(m*\log(e) + m*\log(x))} + 30*B^3*b^3*c*m^n^4*x*e^{(m*\log(e) + m*\log(x))} + 120*A^3*d*m^n^4*x*e^{(m*\log(e) + m*\log(x))} + 60*B^3*d*m^n^4*x*e^{(m*\log(e) + m*\log(x))} + 180*A^2*b*d*m^n^4*x*e^{(m*\log(e) + m*\log(x))} + 120*B^2*b*d*m^n^4*x*e^{(m*\log(e) + m*\log(x))} + 120*A^2*b^2*d*m^n^4*x*e^{(m*\log(e) + m*\log(x))} + 90*B^2*b^2*d*m^n^4*x*e^{(m*\log(e) + m*\log(x))} + 30*A^3*b^3*d*m^n^4*x*e^{(m*\log(e) + m*\log(x))} + 24*B^3*b^3*d*m^n^4*x*e^{(m*\log(e) + m*\log(x))} + 120*A^3*c*n^5*x*e^{(m*\log(e) + m*\log(x))} + 5*B^3*d*m^4*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 40*B^3*d*m^3*n*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 105*B^3*d*m^2*n^2*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 100*B^3*d*m^n^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 24*B^3*d*n^4*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 5*B^3*c*m^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 15*B^2*b^2*d*m^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 5*A^3*b^3*d*m^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 5*B^3*d*m^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 44*B^3*c*m^3*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 132*B^2*b^2*d*m^3*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 44*A^3*b^3*d*m^3*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 40*B^3*b^3*d*m^3*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 123*B^3*c*m^2*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 369*B^2*b^2*d*m^2*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 123*A^3*b^3*d*m^2*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 105*B^3*b^3*d*m^2*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 122*B^3*c*m^n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 366*B^2*b^2*d*m^n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 122*A^3*b^3*d*m^n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 100*B^3*d*m^n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 30*B^3*b^3*c*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 90*B^2*b^2*d*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 30*A^3*b^3*d*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 24*B^3*b^3*d*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 15*B^2*b^2*c*m^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 5*A^3*b^3*c*m^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 5*B^3*b^3*c*m^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 15*B^2*b^2*d*m^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 15*A^2*b^2*d*m^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 15*B^2*b^2*d*m^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 5*A^3*b^3*d*m^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 5*B^3*b^3*d*m^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 144*B^2*b^2*c*m^3*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 48*A^3
\end{aligned}$$

$$\begin{aligned}
& *c^m^3n^3x^3e^{(m\log(e) + m\log(x))} + 44*B*b^3*c^m^3n^3x^3e^{(m\log(e) + m\log(x))} \\
& + 144*B*a^2*b*d^m^3n^3x^3e^{(m\log(e) + m\log(x))} + 144*A*a*b^2*d^m^3n^3x^3e^{(m\log(e) + m\log(x))} \\
& + 132*B*a*b^2*d^m^3n^3x^3e^{(m\log(e) + m\log(x))} + 44*A*b^3*d^m^3n^3x^3e^{(m\log(e) + m\log(x))} \\
& + 40*B*b^3*d^m^3n^3x^3e^{(m\log(e) + m\log(x))} + 441*B*a*b^2*c^m^2n^2x^3e^{(m\log(e) + m\log(x))} \\
& + 147*A*b^3*c^m^2n^2x^3e^{(m\log(e) + m\log(x))} + 123*B*b^3*c^m^2n^2x^3e^{(m\log(e) + m\log(x))} \\
& + 441*B*a^2*b*d^m^2n^2x^3e^{(m\log(e) + m\log(x))} + 441*A*a*b^2*d^m^2n^2x^3e^{(m\log(e) + m\log(x))} \\
& + 369*B*a*b^2*d^m^2n^2x^3e^{(m\log(e) + m\log(x))} + 123*A*b^3*d^m^2n^2x^3e^{(m\log(e) + m\log(x))} \\
& + 105*B*b^3*d^m^2n^2x^3e^{(m\log(e) + m\log(x))} + 468*B*a*b^2*c^m^3n^3x^3e^{(m\log(e) + m\log(x))} \\
& + 156*A*b^3*c^m^3n^3x^3e^{(m\log(e) + m\log(x))} + 122*B*b^3*c^m^3n^3x^3e^{(m\log(e) + m\log(x))} \\
& + 468*B*a^2*b*d^m^3n^3x^3e^{(m\log(e) + m\log(x))} + 468*A*a*b^2*d^m^3n^3x^3e^{(m\log(e) + m\log(x))} \\
& + 366*B*a*b^2*d^m^3n^3x^3e^{(m\log(e) + m\log(x))} + 122*A*b^3*d^m^3n^3x^3e^{(m\log(e) + m\log(x))} \\
& + 100*B*b^3*d^m^3n^3x^3e^{(m\log(e) + m\log(x))} + 120*B*a*b^2*c^n^4x^3e^{(m\log(e) + m\log(x))} \\
& + 40*A*b^3*c^n^4x^3e^{(m\log(e) + m\log(x))} + 30*B*b^3*c^n^4x^3e^{(m\log(e) + m\log(x))} \\
& + 120*B*a^2*b*d^n^4x^3e^{(m\log(e) + m\log(x))} + 120*A*a*b^2*d^n^4x^3e^{(m\log(e) + m\log(x))} \\
& + 90*B*a*b^2*d^n^4x^3e^{(m\log(e) + m\log(x))} + 30*A*b^3*d^n^4x^3e^{(m\log(e) + m\log(x))} \\
& + 24*B*b^3*d^n^4x^3e^{(m\log(e) + m\log(x))} + 15*B*a^2*b*c^m^4x^2e^{(m\log(e) + m\log(x))} \\
& + 15*A*a*b^2*c^m^4x^2e^{(m\log(e) + m\log(x))} + 5*A*b^3*c^m^4x^2e^{(m\log(e) + m\log(x))} \\
& + 5*B*b^3*c^m^4x^2e^{(m\log(e) + m\log(x))} + 5*B*a^3*d^m^4x^2e^{(m\log(e) + m\log(x))} \\
& + 15*A*a^2*b*d^m^4x^2e^{(m\log(e) + m\log(x))} + 15*B*a^2*b*d^m^4x^2e^{(m\log(e) + m\log(x))} \\
& + 15*A*a*b^2*d^m^4x^2e^{(m\log(e) + m\log(x))} + 15*B*a*b^2*d^m^4x^2e^{(m\log(e) + m\log(x))} \\
& + 5*A*b^3*d^m^4x^2e^{(m\log(e) + m\log(x))} + 5*B*b^3*d^m^4x^2e^{(m\log(e) + m\log(x))} \\
& + 156*B*a^2*b*c^m^3n^3x^2e^{(m\log(e) + m\log(x))} + 156*A*a*b^2*c^m^3n^3x^2e^{(m\log(e) + m\log(x))} \\
& + 144*B*a*b^2*c^m^3n^3x^2e^{(m\log(e) + m\log(x))} + 44*A*b^3*c^m^3n^3x^2e^{(m\log(e) + m\log(x))} \\
& + 52*B*a^3*d^m^3n^3x^2e^{(m\log(e) + m\log(x))} + 156*A*a^2*b*d^m^3n^3x^2e^{(m\log(e) + m\log(x))} \\
& + 144*B*a^2*b*d^m^3n^3x^2e^{(m\log(e) + m\log(x))} + 144*A*a*b^2*d^m^3n^3x^2e^{(m\log(e) + m\log(x))} \\
& + 132*B*a*b^2*d^m^3n^3x^2e^{(m\log(e) + m\log(x))} + 44*A*b^3*d^m^3n^3x^2e^{(m\log(e) + m\log(x))} \\
& + 40*B*b^3*d^m^3n^3x^2e^{(m\log(e) + m\log(x))} + 531*B*a^2*b*c^m^2n^2x^2e^{(m\log(e) + m\log(x))} \\
& + 531*A*a*b^2*c^m^2n^2x^2e^{(m\log(e) + m\log(x))} + 441*B*a*b^2*c^m^2n^2x^2e^{(m\log(e) + m\log(x))} \\
& + 147*A*b^3*c^m^2n^2x^2e^{(m\log(e) + m\log(x))} + 123*B*b^3*c^m^2n^2x^2e^{(m\log(e) + m\log(x))} \\
& + 177*B*a^3*d^m^2n^2x^2e^{(m\log(e) + m\log(x))} + 531*A*a^2*b*d^m^2n^2x^2e^{(m\log(e) + m\log(x))} \\
& + 441*B*a^2*b*d^m^2n^2x^2e^{(m\log(e) + m\log(x))}
\end{aligned}$$

$b*d*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 441*A*a*b^2*d*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 369*B*a*b^2*d*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 123*A*b^3*d*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 105*B*b^3*d*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 642*B*a^2*b*c*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 642*A*a*b^2*c*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 468*B*a*b^2*c*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 156*A*b^3*c*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 122*B*b^3*c*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 214*B*a^3*d*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 642*A*a^2*b*d*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 468*B*a^2*b*d*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 468*A*a*b^2*d*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 366*B*a*b^2*d*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 122*A*b^3*d*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 100*B*b^3*d*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 180*B*a^2*b*c*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 180*A*a*b^2*c*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 120*B*a*b^2*c*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 40*A*b^3*c*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 30*B*b^3*c*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 60*B*a^3*d*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 180*A*a^2*b*d*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 120*B*a^2*b*d*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 120*A*a*b^2*d*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 90*B*a*b^2*d*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 30*A*b^3*d*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 24*B*b^3*d*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 5*B*a^3*c*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*A*a^2*b*c*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*B*a^2*b*c*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*A*a*b^2*c*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*B*a*b^2*c*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5*A*b^3*c*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5*B*b^3*c*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5*A*a^3*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5*B*a^3*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*A*a^2*b*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*B*a^2*b*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*A*a*b^2*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*B*a*b^2*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5*A*b^3*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 56*B*a^3*c*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 168*A*a^2*b*c*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 156*B*a^2*b*c*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 144*B*a*b^2*c*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 48*A*b^3*c*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 44*B*b^3*c*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 56*A*a^3*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 52*B*a^3*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 156*A*a^2*b*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 144*B*a^2*b*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 144*A*a*b^2*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 132*B*a*b^2*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 44*A*b^3*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 40*B*b^3*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 213*B*a^3*c*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 639*A*a^2*b*c*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 531*B*a^2*b*c*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 441*B*a*b^2*c*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 147*A*b^3*c*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 123*B*b^3*c$

$$\begin{aligned}
& m^2 n^2 x^x n^x e^{(m \log(e) + m \log(x))} + 213 A a^3 d m^2 n^2 x^x n^x e^{(m \log(e) + m \log(x))} + 177 B a^3 d m^2 n^2 x^x n^x e^{(m \log(e) + m \log(x))} + 531 A a^2 b d m^2 n^2 x^x n^x e^{(m \log(e) + m \log(x))} + 441 B a^2 b d m^2 n^2 x^x n^x e^{(m \log(e) + m \log(x))} + 441 A a b^2 d m^2 n^2 x^x n^x e^{(m \log(e) + m \log(x))} + 369 B a b^2 d m^2 n^2 x^x n^x e^{(m \log(e) + m \log(x))} + 123 A b^3 d m^2 n^2 x^x n^x e^{(m \log(e) + m \log(x))} + 105 B b^3 d m^2 n^2 x^x n^x e^{(m \log(e) + m \log(x))} + 308 B a^3 c m n^3 x^x n^x e^{(m \log(e) + m \log(x))} + 924 A a^2 b c m n^3 x^x n^x e^{(m \log(e) + m \log(x))} + 642 B a^2 b c m n^3 x^x n^x e^{(m \log(e) + m \log(x))} + 642 A a b^2 c m n^3 x^x n^x e^{(m \log(e) + m \log(x))} + 468 B a b^2 c m n^3 x^x n^x e^{(m \log(e) + m \log(x))} + 156 A b^3 c m n^3 x^x n^x e^{(m \log(e) + m \log(x))} + 122 B b^3 c m n^3 x^x n^x e^{(m \log(e) + m \log(x))} + 308 A a^3 d m n^3 x^x n^x e^{(m \log(e) + m \log(x))} + 214 B a^3 d m n^3 x^x n^x e^{(m \log(e) + m \log(x))} + 642 A a^2 b d m n^3 x^x n^x e^{(m \log(e) + m \log(x))} + 468 B a^2 b d m n^3 x^x n^x e^{(m \log(e) + m \log(x))} + 468 A a b^2 d m n^3 x^x n^x e^{(m \log(e) + m \log(x))} + 366 B a b^2 d m n^3 x^x n^x e^{(m \log(e) + m \log(x))} + 122 A b^3 d m n^3 x^x n^x e^{(m \log(e) + m \log(x))} + 100 B b^3 d m n^3 x^x n^x e^{(m \log(e) + m \log(x))} + 120 B a^3 c n^4 x^x n^x e^{(m \log(e) + m \log(x))} + 360 A a^2 b c n^4 x^x n^x e^{(m \log(e) + m \log(x))} + 180 B a^2 b c n^4 x^x n^x e^{(m \log(e) + m \log(x))} + 180 A a b^2 c n^4 x^x n^x e^{(m \log(e) + m \log(x))} + 120 B a b^2 c n^4 x^x n^x e^{(m \log(e) + m \log(x))} + 40 A b^3 c n^4 x^x n^x e^{(m \log(e) + m \log(x))} + 30 B b^3 c n^4 x^x n^x e^{(m \log(e) + m \log(x))} + 120 A a^3 d n^4 x^x n^x e^{(m \log(e) + m \log(x))} + 60 B a^3 d n^4 x^x n^x e^{(m \log(e) + m \log(x))} + 180 A a^2 b d n^4 x^x n^x e^{(m \log(e) + m \log(x))} + 120 B a^2 b d n^4 x^x n^x e^{(m \log(e) + m \log(x))} + 120 A a b^2 d n^4 x^x n^x e^{(m \log(e) + m \log(x))} + 90 B a b^2 d n^4 x^x n^x e^{(m \log(e) + m \log(x))} + 30 A b^3 d n^4 x^x n^x e^{(m \log(e) + m \log(x))} + 24 B b^3 d n^4 x^x n^x e^{(m \log(e) + m \log(x))} + 5 A a^3 c m^4 x^x e^{(m \log(e) + m \log(x))} + 5 B a^3 c m^4 x^x e^{(m \log(e) + m \log(x))} + 15 A a^2 b c m^4 x^x e^{(m \log(e) + m \log(x))} + 15 B a^2 b c m^4 x^x e^{(m \log(e) + m \log(x))} + 15 A a b^2 c m^4 x^x e^{(m \log(e) + m \log(x))} + 15 B a b^2 c m^4 x^x e^{(m \log(e) + m \log(x))} + 5 A b^3 c m^4 x^x e^{(m \log(e) + m \log(x))} + 5 B b^3 c m^4 x^x e^{(m \log(e) + m \log(x))} + 5 A a^3 d m^4 x^x e^{(m \log(e) + m \log(x))} + 5 B a^3 d m^4 x^x e^{(m \log(e) + m \log(x))} + 15 A a^2 b d m^4 x^x e^{(m \log(e) + m \log(x))} + 15 B a^2 b d m^4 x^x e^{(m \log(e) + m \log(x))} + 15 A a b^2 d m^4 x^x e^{(m \log(e) + m \log(x))} + 15 B a b^2 d m^4 x^x e^{(m \log(e) + m \log(x))} + 5 A b^3 d m^4 x^x e^{(m \log(e) + m \log(x))} + 5 B b^3 d m^4 x^x e^{(m \log(e) + m \log(x))} + 60 A a^3 c m^3 n x^x e^{(m \log(e) + m \log(x))} + 56 B a^3 c m^3 n x^x e^{(m \log(e) + m \log(x))} + 168 A a^2 b c m^3 n x^x e^{(m \log(e) + m \log(x))} + 156 B a^2 b c m^3 n x^x e^{(m \log(e) + m \log(x))} + 156 A a b^2 c m^3 n x^x e^{(m \log(e) + m \log(x))} + 144 B a b^2 c m^3 n x^x e^{(m \log(e) + m \log(x))} + 48 A b^3 c m^3 n x^x e^{(m \log(e) + m \log(x))} + 44 B b^3 c m^3 n x^x e^{(m \log(e) + m \log(x))} + 56 A a^3 d m^3 n x^x e^{(m \log(e) + m \log(x))} + 52 B a^3 d m^3 n x^x e^{(m \log(e) + m \log(x))} + 156 A a^2 b d m^3 n x^x e^{(m \log(e) + m \log(x))} + 144 B a^2 b d m^3 n x^x e^{(m \log(e) + m \log(x))} + 144 A a b^2 d m^3 n x^x e^{(m \log(e) + m \log(x))} + 132 B a b^2 d m^3 n x^x e^{(m \log(e) + m \log(x))} + 44 A b^3 d m^3 n x^x e^{(m \log(e) + m \log(x))} + 40 B b^3 d m^3 n x^x e^{(m \log(e) + m \log(x))}
\end{aligned}$$

$$\begin{aligned}
& ^{(m \log(e) + m \log(x))} + 255 * A * a^3 * c * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 21 \\
& 3 * B * a^3 * c * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 639 * A * a^2 * b * c * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 531 * B * a^2 * b * c * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 531 * \\
& A * a * b^2 * c * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 441 * B * a * b^2 * c * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 147 * A * b^3 * c * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 123 * B * \\
& b^3 * c * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 213 * A * a^3 * d * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 177 * B * a^3 * d * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 531 * A * a^2 * b * \\
& d * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 441 * B * a^2 * b * d * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 441 * A * a * b^2 * d * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 369 * B * a * b^2 * \\
& d * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 123 * A * b^3 * d * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 105 * B * b^3 * d * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 450 * A * a^3 * c * m * n^3 * \\
& x * e^{(m \log(e) + m \log(x))} + 308 * B * a^3 * c * m * n^3 * x * e^{(m \log(e) + m \log(x))} + 924 * A * a^2 * b * c * m * n^3 * x * e^{(m \log(e) + m \log(x))} + 642 * B * a^2 * b * c * m * n^3 * x * e^{(m \log(e) + m \log(x))} + 642 * A * a * b^2 * c * m * n^3 * x * e^{(m \log(e) + m \log(x))} + 468 * B * \\
& a * b^2 * c * m * n^3 * x * e^{(m \log(e) + m \log(x))} + 156 * A * b^3 * c * m * n^3 * x * e^{(m \log(e) + m \log(x))} + 122 * B * b^3 * c * m * n^3 * x * e^{(m \log(e) + m \log(x))} + 308 * A * a^3 * d * m * n^3 * \\
& x * e^{(m \log(e) + m \log(x))} + 214 * B * a^3 * d * m * n^3 * x * e^{(m \log(e) + m \log(x))} + 642 * A * a^2 * b * d * m * n^3 * x * e^{(m \log(e) + m \log(x))} + 468 * B * a^2 * b * d * m * n^3 * x * e^{(m \log(e) + m \log(x))} + 468 * A * a * b^2 * d * m * n^3 * x * e^{(m \log(e) + m \log(x))} + 366 * \\
& B * a * b^2 * d * m * n^3 * x * e^{(m \log(e) + m \log(x))} + 122 * A * b^3 * d * m * n^3 * x * e^{(m \log(e) + m \log(x))} + 100 * B * b^3 * d * m * n^3 * x * e^{(m \log(e) + m \log(x))} + 274 * A * a^3 * c * n^4 * \\
& x * e^{(m \log(e) + m \log(x))} + 120 * B * a^3 * c * n^4 * x * e^{(m \log(e) + m \log(x))} + 360 * A * a^2 * b * c * n^4 * x * e^{(m \log(e) + m \log(x))} + 180 * B * a^2 * b * c * n^4 * x * e^{(m \log(e) + m \log(x))} + 180 * A * a * b^2 * c * n^4 * x * e^{(m \log(e) + m \log(x))} + 120 * B * a * b^2 * c * \\
& n^4 * x * e^{(m \log(e) + m \log(x))} + 40 * A * b^3 * c * n^4 * x * e^{(m \log(e) + m \log(x))} + 30 * B * b^3 * c * n^4 * x * e^{(m \log(e) + m \log(x))} + 120 * A * a^3 * d * n^4 * x * e^{(m \log(e) + m \log(x))} + 60 * B * a^3 * d * n^4 * x * e^{(m \log(e) + m \log(x))} + 180 * A * a^2 * b * d * n^4 * x * \\
& e^{(m \log(e) + m \log(x))} + 120 * B * a^2 * b * d * n^4 * x * e^{(m \log(e) + m \log(x))} + 120 * A * a * b^2 * d * n^4 * x * e^{(m \log(e) + m \log(x))} + 90 * B * a * b^2 * d * n^4 * x * e^{(m \log(e) + m \log(x))} + 30 * A * b^3 * d * n^4 * x * e^{(m \log(e) + m \log(x))} + 24 * B * b^3 * d * n^4 * x * e^{(m \log(e) + m \log(x))} + 10 * B * b^3 * d * m^3 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 60 * B * b^3 * d * m^2 * n * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 105 * B * b^3 * d * m * n^2 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 50 * B * b^3 * d * n^3 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 10 * B * b^3 * c * m^3 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 30 * B * a * b^2 * d * m^3 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 10 * A * b^3 * d * m^3 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 10 * B * b^3 * d * m^3 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 66 * B * b^3 * c * m^2 * n * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 198 * B * a * b^2 * d * m^2 * n * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 66 * A * b^3 * d * m^2 * n * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 60 * B * b^3 * d * m^2 * n * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 123 * B * b^3 * c * m * n^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 369 * B * a * b^2 * d * m * n^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 123 * A * b^3 * d * m * n^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 105 * B * b^3 * d * m * n^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 61 * B * b^3 * c * n^3 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 183 * B * a * b^2 * d * n^3 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 61 * A * b^3 * d * n^3 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 50 * B * b^3 * d * n^3 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 30 * B * a * b^2 * c * m^3 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + m \log(e) + m \log(x)
\end{aligned}$$

$g(x)) + 10A^3b^3c^3m^3x^3e^{(m \log(e) + m \log(x))} + 10B^3b^3c^3m^3x^3$
 $x^3e^{(m \log(e) + m \log(x))} + 30B^2a^2b^2d^2m^3x^3e^{(m \log(e) + m \log(x))} +$
 $m \log(x)) + 30A^2a^2b^2d^2m^3x^3e^{(m \log(e) + m \log(x))} + 30B^2a^2b^2$
 $d^2m^3x^3e^{(m \log(e) + m \log(x))} + 10A^3b^3d^3m^3x^3e^{(m \log(e) + m \log(x))} +$
 $10B^3b^3d^3m^3x^3e^{(m \log(e) + m \log(x))} + 216B^2a^2c^2m^2n^2x^3e^{(m \log(e) + m \log(x))} +$
 $72A^3b^3c^2m^2n^2x^3e^{(m \log(e) + m \log(x))} + 66B^2b^3c^2m^2n^2x^3e^{(m \log(e) + m \log(x))}$
 $g(x)) + 216B^2a^2b^2d^2m^2n^2x^3e^{(m \log(e) + m \log(x))} + 216A^2a^2b^2$
 $d^2m^2n^2x^3e^{(m \log(e) + m \log(x))} + 198B^2a^2b^2d^2m^2n^2x^3e^{(m \log(e) + m \log(x))}$
 $e^{(m \log(e) + m \log(x))} + 66A^3b^3d^2m^2n^2x^3e^{(m \log(e) + m \log(x))}$
 $) + 60B^3b^3d^2m^2n^2x^3e^{(m \log(e) + m \log(x))} + 441B^2a^2b^2c^2m^2n^2$
 $x^3e^{(m \log(e) + m \log(x))} + 147A^3b^3c^2m^2n^2x^3e^{(m \log(e) + m \log(x))}$
 $e^{(m \log(e) + m \log(x))} + 123B^2b^3c^2m^2n^2x^3e^{(m \log(e) + m \log(x))} + 441B^2$
 $a^2b^2d^2m^2n^2x^3e^{(m \log(e) + m \log(x))} + 441A^2a^2b^2d^2m^2n^2x^3$
 $e^{(m \log(e) + m \log(x))} + 369B^2a^2b^2d^2m^2n^2x^3e^{(m \log(e) + m \log(x))}$
 $+ m \log(x)) + 123A^3b^3d^2m^2n^2x^3e^{(m \log(e) + m \log(x))} + 105B^2b^3$
 $d^2m^2n^2x^3e^{(m \log(e) + m \log(x))} + 234B^2a^2b^2c^2n^3x^3e^{(m \log(e) + m \log(x))}$
 $e^{(m \log(e) + m \log(x))} + 78A^3b^3c^2n^3x^3e^{(m \log(e) + m \log(x))} + 61B^2b^3c^2n^3$
 $x^3e^{(m \log(e) + m \log(x))} + 234B^2a^2b^2d^2n^3x^3e^{(m \log(e) + m \log(x))}$
 $(3n)e^{(m \log(e) + m \log(x))} + 234A^2a^2b^2d^2n^3x^3e^{(m \log(e) + m \log(x))} +$
 $183B^2a^2b^2d^2n^3x^3e^{(m \log(e) + m \log(x))} + 61A^3b^3d^2n^3x^3e^{(m \log(e) + m \log(x))}$
 $x^3e^{(m \log(e) + m \log(x))} + 50B^2b^3d^2n^3x^3e^{(m \log(e) + m \log(x))} + 30B^2a^2b^2c^2m^3$
 $x^2e^{(m \log(e) + m \log(x))} + 30A^2a^2b^2c^2m^3x^2e^{(m \log(e) + m \log(x))} + 30B^2a^2b^2c^2m^3$
 $x^2e^{(m \log(e) + m \log(x))} + 10A^3b^3c^2m^3x^2e^{(m \log(e) + m \log(x))} + 10B^2b^3c^2m^3$
 $x^2e^{(m \log(e) + m \log(x))} + 10B^2a^3d^2m^3x^2e^{(m \log(e) + m \log(x))} + 30A^2a^2b^2d^2m^3$
 $x^2e^{(m \log(e) + m \log(x))} + 30B^2a^2b^2d^2m^3x^2e^{(m \log(e) + m \log(x))} + 30A^2a^2b^2d^2m^3$
 $x^2e^{(m \log(e) + m \log(x))} + 30B^2a^2b^2d^2m^3x^2e^{(m \log(e) + m \log(x))} + 10A^3b^3d^2m^3$
 $x^2e^{(m \log(e) + m \log(x))} + 10B^2b^3d^2m^3x^2e^{(m \log(e) + m \log(x))} + 234B^2a^2b^2c^2m^2n^2$
 $x^2e^{(m \log(e) + m \log(x))} + 234A^2a^2b^2c^2m^2n^2x^2e^{(m \log(e) + m \log(x))} + 216B^2a^2b^2c^2m^2n^2$
 $x^2e^{(m \log(e) + m \log(x))} + 72A^3b^3c^2m^2n^2x^2e^{(m \log(e) + m \log(x))} + 66B^2b^3c^2m^2n^2$
 $x^2e^{(m \log(e) + m \log(x))} + 78B^2a^3d^2m^2n^2x^2e^{(m \log(e) + m \log(x))} + 234A^2a^2b^2d^2m^2n^2$
 $x^2e^{(m \log(e) + m \log(x))} + 216B^2a^2b^2d^2m^2n^2x^2e^{(m \log(e) + m \log(x))} + 216A^2a^2b^2d^2m^2n^2$
 $x^2e^{(m \log(e) + m \log(x))} + 198B^2a^2b^2d^2m^2n^2x^2e^{(m \log(e) + m \log(x))} + 66A^2b^3d^2m^2n^2$
 $x^2e^{(m \log(e) + m \log(x))} + 60B^2b^3d^2m^2n^2x^2e^{(m \log(e) + m \log(x))} + 531B^2a^2b^2c^2m^2n^2$
 $x^2e^{(m \log(e) + m \log(x))} + 531A^2a^2b^2c^2m^2n^2x^2e^{(m \log(e) + m \log(x))} + 441B^2a^2b^2c^2$
 $m^2n^2x^2e^{(m \log(e) + m \log(x))} + 147A^3b^3c^2m^2n^2x^2e^{(m \log(e) + m \log(x))} + 123B^2b^3c^2m^2n^2$
 $x^2e^{(m \log(e) + m \log(x))} + 177B^2a^3d^2m^2n^2x^2e^{(m \log(e) + m \log(x))} + 531A^2a^2b^2d^2m^2n^2$
 $x^2e^{(m \log(e) + m \log(x))} + 441B^2a^2b^2d^2m^2n^2x^2e^{(m \log(e) + m \log(x))}$

$$\begin{aligned}
& *n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 61*B*b^3*c*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 154*A*a^3*d*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 107*B*a^3*d*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 321*A*a^2*b*d*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 234*B*a^2*b*d*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 234*A*a*b^2*d*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 183*B*a*b^2*d*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 61*A*b^3*d*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 50*B*b^3*d*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10*A*a^3*c*m^3*x*x*e^{(m*\log(e) + m*\log(x))} + 10*B*a^3*c*m^3*x*x*e^{(m*\log(e) + m*\log(x))} + 30*A*a^2*b*c*m^3*x*x*e^{(m*\log(e) + m*\log(x))} + 30*B*a^2*b*c*m^3*x*x*e^{(m*\log(e) + m*\log(x))} + 30*A*a*b^2*c*m^3*x*x*e^{(m*\log(e) + m*\log(x))} + 30*B*a*b^2*c*m^3*x*x*e^{(m*\log(e) + m*\log(x))} + 10*A*b^3*c*m^3*x*x*e^{(m*\log(e) + m*\log(x))} + 10*B*b^3*c*m^3*x*x*e^{(m*\log(e) + m*\log(x))} + 10*A*a^3*d*m^3*x*x*e^{(m*\log(e) + m*\log(x))} + 10*B*a^3*d*m^3*x*x*e^{(m*\log(e) + m*\log(x))} + 30*A*a^2*b*d*m^3*x*x*e^{(m*\log(e) + m*\log(x))} + 30*B*a^2*b*d*m^3*x*x*e^{(m*\log(e) + m*\log(x))} + 30*A*a*b^2*d*m^3*x*x*e^{(m*\log(e) + m*\log(x))} + 30*B*a*b^2*d*m^3*x*x*e^{(m*\log(e) + m*\log(x))} + 10*A*b^3*d*m^3*x*x*e^{(m*\log(e) + m*\log(x))} + 10*B*b^3*d*m^3*x*x*e^{(m*\log(e) + m*\log(x))} + 90*A*a^3*c*m^2*n*x*x*e^{(m*\log(e) + m*\log(x))} + 84*B*a^3*c*m^2*n*x*x*e^{(m*\log(e) + m*\log(x))} + 252*A*a^2*b*c*m^2*n*x*x*e^{(m*\log(e) + m*\log(x))} + 234*B*a^2*b*c*m^2*n*x*x*e^{(m*\log(e) + m*\log(x))} + 216*B*a*b^2*c*m^2*n*x*x*e^{(m*\log(e) + m*\log(x))} + 72*A*b^3*c*m^2*n*x*x*e^{(m*\log(e) + m*\log(x))} + 66*B*b^3*c*m^2*n*x*x*e^{(m*\log(e) + m*\log(x))} + 84*A*a^3*d*m^2*n*x*x*e^{(m*\log(e) + m*\log(x))} + 78*B*a^3*d*m^2*n*x*x*e^{(m*\log(e) + m*\log(x))} + 234*A*a^2*b*d*m^2*n*x*x*e^{(m*\log(e) + m*\log(x))} + 216*B*a^2*b*d*m^2*n*x*x*e^{(m*\log(e) + m*\log(x))} + 216*A*a*b^2*d*m^2*n*x*x*e^{(m*\log(e) + m*\log(x))} + 198*B*a*b^2*d*m^2*n*x*x*e^{(m*\log(e) + m*\log(x))} + 66*A*b^3*d*m^2*n*x*x*e^{(m*\log(e) + m*\log(x))} + 60*B*b^3*d*m^2*n*x*x*e^{(m*\log(e) + m*\log(x))} + 255*A*a^3*c*m*n^2*x*x*e^{(m*\log(e) + m*\log(x))} + 213*B*a^3*c*m*n^2*x*x*e^{(m*\log(e) + m*\log(x))} + 639*A*a^2*b*c*m*n^2*x*x*e^{(m*\log(e) + m*\log(x))} + 531*B*a^2*b*c*m*n^2*x*x*e^{(m*\log(e) + m*\log(x))} + 531*A*a*b^2*c*m*n^2*x*x*e^{(m*\log(e) + m*\log(x))} + 441*B*a*b^2*c*m*n^2*x*x*e^{(m*\log(e) + m*\log(x))} + 147*A*b^3*c*m*n^2*x*x*e^{(m*\log(e) + m*\log(x))} + 123*B*b^3*c*m*n^2*x*x*e^{(m*\log(e) + m*\log(x))} + 213*A*a^3*d*m*n^2*x*x*e^{(m*\log(e) + m*\log(x))} + 177*B*a^3*d*m*n^2*x*x*e^{(m*\log(e) + m*\log(x))} + 531*A*a^2*b*d*m*n^2*x*x*e^{(m*\log(e) + m*\log(x))} + 441*B*a^2*b*d*m*n^2*x*x*e^{(m*\log(e) + m*\log(x))} + 441*A*a*b^2*d*m*n^2*x*x*e^{(m*\log(e) + m*\log(x))} + 369*B*a*b^2*d*m*n^2*x*x*e^{(m*\log(e) + m*\log(x))} + 123*A*b^3*d*m*n^2*x*x*e^{(m*\log(e) + m*\log(x))} + 105*B*b^3*d*m*n^2*x*x*e^{(m*\log(e) + m*\log(x))} + 225*A*a^3*c*n^3*x*x*e^{(m*\log(e) + m*\log(x))} + 154*B*a^3*c*n^3*x*x*e^{(m*\log(e) + m*\log(x))} + 462*A*a^2*b*c*n^3*x*x*e^{(m*\log(e) + m*\log(x))} + 321*B*a^2*b*c*n^3*x*x*e^{(m*\log(e) + m*\log(x))} + 321*A*a*b^2*c*n^3*x*x*e^{(m*\log(e) + m*\log(x))} + 234*B*a*b^2*c*n^3*x*x*e^{(m*\log(e) + m*\log(x))} + 78*A*b^3*c*n^3*x*x*e^{(m*\log(e) + m*\log(x))} + 61*B*b^3*c*n^3*x*x*e^{(m*\log(e) + m*\log(x))} + 154*A*a^3*d*n^3*x*x*e^{(m*\log(e) + m*\log(x))} + 107*B*a^3*d*n^3*x*x*e^{(m*\log(e) + m*\log(x))} + 321*A*a^2*b*d*n^3*x*x*e^{(m*\log(e) + m*\log(x))} + 234*B*a^2*b*d*n^3*x*x*e^{(m*\log(e) + m*\log(x))} + 234*A*a*b^2*d*n^3*x*x*e^{(m*\log(e) + m*\log(x))} + 183*B*a*b^2*d*n^3*x*x*e^{(m*\log(e) + m*\log(x))} + 61*A*b^3*d*n^3*x*x*e^{(m*\log(e) + m*\log(x))} + 50*B*b^3*d*n^3*x*x*e^{(m*\log(e) + m*\log(x))}
\end{aligned}$$

$$\begin{aligned}
& + m \log(x)) + 10B^3 d^2 x^5 e^{(m \log(e) + m \log(x))} + 40B^3 d^2 m^2 x^5 e^{(m \log(e) + m \log(x))} + 35B^3 d^2 n^2 x^5 e^{(m \log(e) + m \log(x))} \\
& + 10B^3 c^2 m^2 x^4 e^{(m \log(e) + m \log(x))} + 30B^3 a^2 d^2 m^2 x^4 e^{(m \log(e) + m \log(x))} + 10A^3 d^2 m^2 x^4 e^{(m \log(e) + m \log(x))} \\
& + 10B^3 d^2 m^2 x^4 e^{(m \log(e) + m \log(x))} + 44B^3 c^2 m^2 x^4 e^{(m \log(e) + m \log(x))} + 132B^3 a^2 d^2 m^2 x^4 e^{(m \log(e) + m \log(x))} \\
& + 44A^3 d^2 m^2 x^4 e^{(m \log(e) + m \log(x))} + 40B^3 d^2 m^2 x^4 e^{(m \log(e) + m \log(x))} + 41B^3 c^2 n^2 x^4 e^{(m \log(e) + m \log(x))} \\
& + 123B^3 a^2 d^2 n^2 x^4 e^{(m \log(e) + m \log(x))} + 41A^3 d^2 n^2 x^4 e^{(m \log(e) + m \log(x))} + 35B^3 d^2 n^2 x^4 e^{(m \log(e) + m \log(x))} \\
& + 30B^3 a^2 c^2 m^2 x^3 e^{(m \log(e) + m \log(x))} + 10A^3 c^2 m^2 x^3 e^{(m \log(e) + m \log(x))} + 10B^3 c^2 m^2 x^3 e^{(m \log(e) + m \log(x))} \\
& + 30B^3 a^2 b^2 d^2 m^2 x^3 e^{(m \log(e) + m \log(x))} + 30A^3 a^2 b^2 d^2 m^2 x^3 e^{(m \log(e) + m \log(x))} + 30B^3 a^2 b^2 d^2 m^2 x^3 e^{(m \log(e) + m \log(x))} \\
& + 10A^3 d^2 m^2 x^3 e^{(m \log(e) + m \log(x))} + 10B^3 d^2 m^2 x^3 e^{(m \log(e) + m \log(x))} + 144B^3 a^2 c^2 m^2 x^3 e^{(m \log(e) + m \log(x))} \\
& + 48A^3 c^2 m^2 x^3 e^{(m \log(e) + m \log(x))} + 44B^3 c^2 m^2 x^3 e^{(m \log(e) + m \log(x))} + 144B^3 a^2 b^2 d^2 m^2 x^3 e^{(m \log(e) + m \log(x))} \\
& + 144A^3 a^2 b^2 d^2 m^2 x^3 e^{(m \log(e) + m \log(x))} + 132B^3 a^2 d^2 m^2 x^3 e^{(m \log(e) + m \log(x))} + 44A^3 d^2 m^2 x^3 e^{(m \log(e) + m \log(x))} \\
& + 40B^3 d^2 m^2 x^3 e^{(m \log(e) + m \log(x))} + 147B^3 a^2 c^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + 49A^3 c^2 n^2 x^3 e^{(m \log(e) + m \log(x))} \\
& + 41B^3 c^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + 147B^3 a^2 b^2 d^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + 147A^3 a^2 b^2 d^2 n^2 x^3 e^{(m \log(e) + m \log(x))} \\
& + 123B^3 a^2 d^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + 41A^3 d^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + 35B^3 d^2 n^2 x^3 e^{(m \log(e) + m \log(x))} \\
& + 30B^3 a^2 b^2 c^2 m^2 x^2 e^{(m \log(e) + m \log(x))} + 30A^3 a^2 b^2 c^2 m^2 x^2 e^{(m \log(e) + m \log(x))} + 30B^3 a^2 b^2 c^2 m^2 x^2 e^{(m \log(e) + m \log(x))} \\
& + 10A^3 c^2 m^2 x^2 e^{(m \log(e) + m \log(x))} + 10B^3 c^2 m^2 x^2 e^{(m \log(e) + m \log(x))} + 10B^3 a^3 d^2 m^2 x^2 e^{(m \log(e) + m \log(x))} \\
& + 30A^3 a^2 b^2 d^2 m^2 x^2 e^{(m \log(e) + m \log(x))} + 30B^3 a^2 b^2 d^2 m^2 x^2 e^{(m \log(e) + m \log(x))} + 30A^3 a^2 b^2 d^2 m^2 x^2 e^{(m \log(e) + m \log(x))} \\
& + 10A^3 d^2 m^2 x^2 e^{(m \log(e) + m \log(x))} + 10B^3 d^2 m^2 x^2 e^{(m \log(e) + m \log(x))} + 156B^3 a^2 b^2 c^2 m^2 x^2 e^{(m \log(e) + m \log(x))} \\
& + 156A^3 a^2 b^2 c^2 m^2 x^2 e^{(m \log(e) + m \log(x))} + 144B^3 a^2 c^2 m^2 x^2 e^{(m \log(e) + m \log(x))} + 48A^3 c^2 m^2 x^2 e^{(m \log(e) + m \log(x))} \\
& + 44B^3 c^2 m^2 x^2 e^{(m \log(e) + m \log(x))} + 52B^3 a^3 d^2 m^2 x^2 e^{(m \log(e) + m \log(x))} + 156A^3 a^2 b^2 d^2 m^2 x^2 e^{(m \log(e) + m \log(x))} \\
& + 144B^3 a^2 b^2 d^2 m^2 x^2 e^{(m \log(e) + m \log(x))} + 144A^3 a^2 b^2 d^2 m^2 x^2 e^{(m \log(e) + m \log(x))} + 132B^3 a^2 d^2 m^2 x^2 e^{(m \log(e) + m \log(x))} \\
& + 44A^3 d^2 m^2 x^2 e^{(m \log(e) + m \log(x))} + 40B^3 d^2 m^2 x^2 e^{(m \log(e) + m \log(x))} + 177B^3 a^2 b^2 c^2 n^2 x^2 e^{(m \log(e) + m \log(x))} \\
& + 177A^3 a^2 b^2 c^2 n^2 x^2 e^{(m \log(e) + m \log(x))}
\end{aligned}$$

$$\begin{aligned}
& x^{2n} e^{(m \log(e) + m \log(x))} + 147 B a^2 c n^2 x^{2n} e^{(m \log(e) + m \log(x))} + 49 A b^3 c n^2 x^{2n} e^{(m \log(e) + m \log(x))} + 41 B b^3 c n^2 x^{2n} e^{(m \log(e) + m \log(x))} + 59 B a^3 d n^2 x^{2n} e^{(m \log(e) + m \log(x))} + 177 A a^2 b d n^2 x^{2n} e^{(m \log(e) + m \log(x))} + 147 B a^2 b d n^2 x^{2n} e^{(m \log(e) + m \log(x))} + 147 A a b^2 d n^2 x^{2n} e^{(m \log(e) + m \log(x))} + 123 B a a b^2 d n^2 x^{2n} e^{(m \log(e) + m \log(x))} + 41 A a b^3 d n^2 x^{2n} e^{(m \log(e) + m \log(x))} + 35 B b^3 d n^2 x^{2n} e^{(m \log(e) + m \log(x))} + 10 B a^3 c m^2 x^{2n} e^{(m \log(e) + m \log(x))} + 30 A a^2 b c m^2 x^{2n} e^{(m \log(e) + m \log(x))} + 30 B a^2 b c m^2 x^{2n} e^{(m \log(e) + m \log(x))} + 30 A a b^2 c m^2 x^{2n} e^{(m \log(e) + m \log(x))} + 30 B a b^2 c m^2 x^{2n} e^{(m \log(e) + m \log(x))} + 10 A b^3 c m^2 x^{2n} e^{(m \log(e) + m \log(x))} + 10 B b^3 c m^2 x^{2n} e^{(m \log(e) + m \log(x))} + 10 A a^3 d m^2 x^{2n} e^{(m \log(e) + m \log(x))} + 10 B a^3 d m^2 x^{2n} e^{(m \log(e) + m \log(x))} + 30 A a^2 b d m^2 x^{2n} e^{(m \log(e) + m \log(x))} + 30 B a^2 b d m^2 x^{2n} e^{(m \log(e) + m \log(x))} + 10 A a b^3 d m^2 x^{2n} e^{(m \log(e) + m \log(x))} + 10 B a b^3 d m^2 x^{2n} e^{(m \log(e) + m \log(x))} + 56 B a^3 c m n x^{2n} e^{(m \log(e) + m \log(x))} + 168 A a^2 b c m n x^{2n} e^{(m \log(e) + m \log(x))} + 156 B a^2 b c m n x^{2n} e^{(m \log(e) + m \log(x))} + 156 A a b^2 c m n x^{2n} e^{(m \log(e) + m \log(x))} + 144 B a b^2 c m n x^{2n} e^{(m \log(e) + m \log(x))} + 48 A b^3 c m n x^{2n} e^{(m \log(e) + m \log(x))} + 44 B b^3 c m n x^{2n} e^{(m \log(e) + m \log(x))} + 56 A a^3 d m n x^{2n} e^{(m \log(e) + m \log(x))} + 52 B a^3 d m n x^{2n} e^{(m \log(e) + m \log(x))} + 156 A a^2 b d m n x^{2n} e^{(m \log(e) + m \log(x))} + 144 B a^2 b d m n x^{2n} e^{(m \log(e) + m \log(x))} + 144 A a a b^2 d m n x^{2n} e^{(m \log(e) + m \log(x))} + 132 B a a b^2 d m n x^{2n} e^{(m \log(e) + m \log(x))} + 44 A a b^3 d m n x^{2n} e^{(m \log(e) + m \log(x))} + 40 B b^3 d m n x^{2n} e^{(m \log(e) + m \log(x))} + 71 B a^3 c n^2 x^{2n} e^{(m \log(e) + m \log(x))} + 213 A a^2 b c n^2 x^{2n} e^{(m \log(e) + m \log(x))} + 177 B a^2 b c n^2 x^{2n} e^{(m \log(e) + m \log(x))} + 177 A a a b^2 c n^2 x^{2n} e^{(m \log(e) + m \log(x))} + 147 B a a b^2 c n^2 x^{2n} e^{(m \log(e) + m \log(x))} + 49 A a b^3 c n^2 x^{2n} e^{(m \log(e) + m \log(x))} + 41 B b^3 c n^2 x^{2n} e^{(m \log(e) + m \log(x))} + 71 A a^3 d n^2 x^{2n} e^{(m \log(e) + m \log(x))} + 59 B a^3 d n^2 x^{2n} e^{(m \log(e) + m \log(x))} + 177 A a^2 b d n^2 x^{2n} e^{(m \log(e) + m \log(x))} + 147 B a^2 b d n^2 x^{2n} e^{(m \log(e) + m \log(x))} + 147 A a a b^2 d n^2 x^{2n} e^{(m \log(e) + m \log(x))} + 123 B a a b^2 d n^2 x^{2n} e^{(m \log(e) + m \log(x))} + 41 A a b^3 d n^2 x^{2n} e^{(m \log(e) + m \log(x))} + 35 B b^3 d n^2 x^{2n} e^{(m \log(e) + m \log(x))} + 10 A a^3 c m^2 x^{2n} e^{(m \log(e) + m \log(x))} + 10 B a^3 c m^2 x^{2n} e^{(m \log(e) + m \log(x))} + 30 A a^2 b c m^2 x^{2n} e^{(m \log(e) + m \log(x))} + 30 B a^2 b c m^2 x^{2n} e^{(m \log(e) + m \log(x))} + 30 A a b^2 c m^2 x^{2n} e^{(m \log(e) + m \log(x))} + 30 B a b^2 c m^2 x^{2n} e^{(m \log(e) + m \log(x))} + 10 A b^3 c m^2 x^{2n} e^{(m \log(e) + m \log(x))} + 10 B b^3 c m^2 x^{2n} e^{(m \log(e) + m \log(x))} + 10 A a^3 d m^2 x^{2n} e^{(m \log(e) + m \log(x))} + 10 B a^3 d m^2 x^{2n} e^{(m \log(e) + m \log(x))} + 30 A a^2 b d m^2 x^{2n} e^{(m \log(e) + m \log(x))} + 30 B a^2 b d m^2 x^{2n} e^{(m \log(e) + m \log(x))} + 30 A a a b^2 d m^2 x^{2n} e^{(m \log(e) + m \log(x))} + 30 B a a b^2 d m^2 x^{2n} e^{(m \log(e) + m \log(x))} + 10 A a b^3 d m^2 x^{2n} e^{(m \log(e) + m \log(x))} + 10 B a b^3 d m^2 x^{2n} e^{(m \log(e) + m \log(x))}
\end{aligned}$$

$$\begin{aligned}
& e^{(m \log(e) + m \log(x))} + 10 * B * b^3 * d * m^2 * x * e^{(m \log(e) + m \log(x))} + 60 * A * a^3 * c * m * n * x * e^{(m \log(e) + m \log(x))} + 56 * B * a^3 * c * m * n * x * e^{(m \log(e) + m \log(x))} \\
& + 168 * A * a^2 * b * c * m * n * x * e^{(m \log(e) + m \log(x))} + 156 * B * a^2 * b * c * m * n * x * e^{(m \log(e) + m \log(x))} + 156 * A * a * b^2 * c * m * n * x * e^{(m \log(e) + m \log(x))} \\
& + 144 * B * a * b^2 * c * m * n * x * e^{(m \log(e) + m \log(x))} + 48 * A * b^3 * c * m * n * x * e^{(m \log(e) + m \log(x))} + 44 * B * b^3 * c * m * n * x * e^{(m \log(e) + m \log(x))} \\
& + 56 * A * a^3 * d * m * n * x * e^{(m \log(e) + m \log(x))} + 52 * B * a^3 * d * m * n * x * e^{(m \log(e) + m \log(x))} + 156 * A * a^2 * b * d * m * n * x * e^{(m \log(e) + m \log(x))} \\
& + 144 * B * a^2 * b * d * m * n * x * e^{(m \log(e) + m \log(x))} + 144 * A * a * b^2 * d * m * n * x * e^{(m \log(e) + m \log(x))} + 132 * B * a * b^2 * d * m * n * x * e^{(m \log(e) + m \log(x))} \\
& + 44 * A * b^3 * d * m * n * x * e^{(m \log(e) + m \log(x))} + 40 * B * b^3 * d * m * n * x * e^{(m \log(e) + m \log(x))} + 85 * A * a^3 * c * n^2 * x * e^{(m \log(e) + m \log(x))} + 71 * B * a^3 * c * n^2 * x * e^{(m \log(e) + m \log(x))} \\
& + 213 * A * a^2 * b * c * n^2 * x * e^{(m \log(e) + m \log(x))} + 177 * B * a^2 * b * c * n^2 * x * e^{(m \log(e) + m \log(x))} + 177 * A * a * b^2 * c * n^2 * x * e^{(m \log(e) + m \log(x))} \\
& + 147 * B * a * b^2 * c * n^2 * x * e^{(m \log(e) + m \log(x))} + 49 * A * b^3 * c * n^2 * x * e^{(m \log(e) + m \log(x))} + 41 * B * b^3 * c * n^2 * x * e^{(m \log(e) + m \log(x))} \\
& + 71 * A * a^3 * d * n^2 * x * e^{(m \log(e) + m \log(x))} + 59 * B * a^3 * d * n^2 * x * e^{(m \log(e) + m \log(x))} + 177 * A * a^2 * b * d * n^2 * x * e^{(m \log(e) + m \log(x))} + 147 * B * a^2 * b * d * n^2 * x * e^{(m \log(e) + m \log(x))} \\
& + 147 * A * a * b^2 * d * n^2 * x * e^{(m \log(e) + m \log(x))} + 123 * B * a * b^2 * d * n^2 * x * e^{(m \log(e) + m \log(x))} + 41 * A * b^3 * d * n^2 * x * e^{(m \log(e) + m \log(x))} + 35 * B * b^3 * d * n^2 * x * e^{(m \log(e) + m \log(x))} \\
& + 5 * B * b^3 * d * m * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 10 * B * b^3 * d * n * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 5 * B * b^3 * c * m * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 15 * B * a * b^2 * d * m * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 5 * A * b^3 * d * m * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 5 * B * b^3 * d * m * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 11 * B * b^3 * c * n * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 33 * B * a * b^2 * d * n * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 11 * A * b^3 * d * n * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 10 * B * b^3 * d * n * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 15 * B * a * b^2 * c * m * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 5 * A * b^3 * c * m * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 5 * B * b^3 * c * m * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 15 * B * a^2 * b * d * m * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 15 * A * a * b^2 * d * m * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 15 * B * a * b^2 * d * m * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 5 * A * b^3 * d * m * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 5 * B * b^3 * d * m * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 36 * B * a * b^2 * c * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 12 * A * b^3 * c * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 11 * B * b^3 * c * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 36 * B * a^2 * b * d * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 36 * A * a * b^2 * d * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 33 * B * a * b^2 * d * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 11 * A * b^3 * d * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 10 * B * b^3 * d * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 15 * B * a^2 * b * c * m * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 15 * A * a * b^2 * c * m * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 15 * B * a * b^2 * c * m * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 5 * A * b^3 * c * m * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 5 * B * b^3 * c * m * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 5 * B * a^3 * d * m * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 15 * A * a^2 * b * d * m * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 15 * B * a^2 * b * d * m * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 15 * A * a * b^2 * d * m * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 15 * B * a * b^2 * d * m * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 5 * A * b^3 * d * m * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 5 * B * b^3 * d * m * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} +
\end{aligned}$$

$$\begin{aligned}
& 39*B*a^2*b*c*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 39*A*a*b^2*c*n*x*x^{(2*n)} \\
&)*e^{(m*\log(e) + m*\log(x))} + 36*B*a*b^2*c*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} \\
&) + 12*A*b^3*c*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 11*B*b^3*c*n*x*x^{(2*n)} \\
& *e^{(m*\log(e) + m*\log(x))} + 13*B*a^3*d*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + \\
& 39*A*a^2*b*d*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 36*B*a^2*b*d*n*x*x^{(2*n)} \\
&)*e^{(m*\log(e) + m*\log(x))} + 36*A*a*b^2*d*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} \\
&) + 33*B*a*b^2*d*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 11*A*b^3*d*n*x*x^{(2* \\
& n)}*e^{(m*\log(e) + m*\log(x))} + 10*B*b^3*d*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} \\
& + 5*B*a^3*c*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*A*a^2*b*c*m*x*x^n*e^{(m*\log \\
& (e) + m*\log(x))} + 15*B*a^2*b*c*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*A*a*b^ \\
& 2*c*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*B*a*b^2*c*m*x*x^n*e^{(m*\log(e) + m* \\
& \log(x))} + 5*A*b^3*c*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5*B*b^3*c*m*x*x^n*e^{(\\
& m*\log(e) + m*\log(x))} + 5*A*a^3*d*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5*B*a^3* \\
& d*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*A*a^2*b*d*m*x*x^n*e^{(m*\log(e) + m*\log \\
& (x))} + 15*B*a^2*b*d*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*A*a*b^2*d*m*x*x^n \\
& *e^{(m*\log(e) + m*\log(x))} + 15*B*a*b^2*d*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5 \\
& *A*b^3*d*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5*B*b^3*d*m*x*x^n*e^{(m*\log(e) + \\
& m*\log(x))} + 14*B*a^3*c*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 42*A*a^2*b*c*n*x*x \\
& ^n*e^{(m*\log(e) + m*\log(x))} + 39*B*a^2*b*c*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + \\
& 39*A*a*b^2*c*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 36*B*a*b^2*c*n*x*x^n*e^{(m*\log \\
& (e) + m*\log(x))} + 12*A*b^3*c*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 11*B*b^3*c \\
& *n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 14*A*a^3*d*n*x*x^n*e^{(m*\log(e) + m*\log(x) \\
&)} + 13*B*a^3*d*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 39*A*a^2*b*d*n*x*x^n*e^{(m \\
& *\log(e) + m*\log(x))} + 36*B*a^2*b*d*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 36*A*a \\
& *b^2*d*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 33*B*a*b^2*d*n*x*x^n*e^{(m*\log(e) + \\
& m*\log(x))} + 11*A*b^3*d*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10*B*b^3*d*n*x*x^n \\
& *e^{(m*\log(e) + m*\log(x))} + 5*A*a^3*c*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5*B*a^3 \\
& *c*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*A*a^2*b*c*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + \\
& 15*B*a^2*b*c*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*A*a*b^2*c*m*x*x^n*e^{(m*\log(e) + \\
& m*\log(x))} + 15*B*a*b^2*c*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5*A*b^3*c*m*x*x^n \\
& *e^{(m*\log(e) + m*\log(x))} + 5*B*b^3*c*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5*A*a^3*d*m*x*x \\
& ^n*e^{(m*\log(e) + m*\log(x))} + 5*B*a^3*d*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*A*a^2*b \\
& *d*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*B*a^2*b*d*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + \\
& 15*A*a*b^2*d*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*B*a*b^2*d*m*x*x^n*e^{(m*\log(e) + \\
& m*\log(x))} + 5*A*b^3*d*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5*B*b^3*d*m*x*x^n*e^{(m*\log \\
& (e) + m*\log(x))} + 15*A*a^3*c*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 14*B*a^3*c*n*x*x^n \\
& *e^{(m*\log(e) + m*\log(x))} + 42*A*a^2*b*c*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 39*B*a^2 \\
& *b*c*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 39*A*a*b^2*c*n*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 36*B*a*b^2*c*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 12*A*b^3*c*n*x*x^n*e^{(m*\log(e) + \\
& m*\log(x))} + 11*B*b^3*c*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 14*A*a^3*d*n*x*x^n*e^{(m*\log \\
& (e) + m*\log(x))} + 13*B*a^3*d*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 39*A*a^2*b*d*n*x \\
& *x^n*e^{(m*\log(e) + m*\log(x))} + 36*B*a^2*b*d*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 36*A \\
& *a*b^2*d*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 33*B*a*b^2*d*n*x*x^n*e^{(m*\log(e) + m*\log \\
& (x))} + 11*A*b^3*d*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10*B*b^3*d*n*x*x^n*e^{(m*\log(e) \\
& + m*\log(x))} + B*b^3*d*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + B*b^3*c*x*x^{(4*n)}
\end{aligned}$$

$$\begin{aligned}
& *e^{(m\log(e) + m\log(x))} + 3*B*a*b^2*d*x*x^{(4*n)}*e^{(m\log(e) + m\log(x))} + \\
& A*b^3*d*x*x^{(4*n)}*e^{(m\log(e) + m\log(x))} + B*b^3*d*x*x^{(4*n)}*e^{(m\log(e) + m\log(x))} + \\
& 3*B*a*b^2*c*x*x^{(3*n)}*e^{(m\log(e) + m\log(x))} + A*b^3*c*x*x^{(3*n)}*e^{(m\log(e) + m\log(x))} + \\
& B*b^3*c*x*x^{(3*n)}*e^{(m\log(e) + m\log(x))} + 3*B*a^2*b*d*x*x^{(3*n)}*e^{(m\log(e) + m\log(x))} + \\
& 3*A*a*b^2*d*x*x^{(3*n)}*e^{(m\log(e) + m\log(x))} + 3*B*a*b^2*d*x*x^{(3*n)}*e^{(m\log(e) + m\log(x))} + \\
& A*b^3*d*x*x^{(3*n)}*e^{(m\log(e) + m\log(x))} + B*b^3*d*x*x^{(3*n)}*e^{(m\log(e) + m\log(x))} + \\
& 3*B*a^2*b*c*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 3*A*a*b^2*c*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + \\
& 3*B*a*b^2*c*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + A*b^3*c*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + \\
& B*b^3*c*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + B*a^3*d*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + \\
& 3*A*a^2*b*d*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 3*B*a^2*b*d*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + \\
& 3*A*a*b^2*d*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 3*B*a*b^2*d*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + \\
& A*b^3*d*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + B*b^3*d*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + \\
& B*a^3*c*x*x^n*e^{(m\log(e) + m\log(x))} + 3*A*a^2*b*c*x*x^n*e^{(m\log(e) + m\log(x))} + \\
& 3*B*a^2*b*c*x*x^n*e^{(m\log(e) + m\log(x))} + m\log(x)) + 3*A*a*b^2*c*x*x^n*e^{(m\log(e) + m\log(x))} + \\
& 3*B*a*b^2*c*x*x^n*e^{(m\log(e) + m\log(x))} + A*b^3*c*x*x^n*e^{(m\log(e) + m\log(x))} + \\
& B*b^3*c*x*x^n*e^{(m\log(e) + m\log(x))} + A*a^3*d*x*x^n*e^{(m\log(e) + m\log(x))} + B*a^3*d*x*x^n*e^{(m\log(e) + m\log(x))} + \\
& 3*A*a^2*b*d*x*x^n*e^{(m\log(e) + m\log(x))} + 3*B*a^2*b*d*x*x^n*e^{(m\log(e) + m\log(x))} + \\
& 3*A*a*b^2*d*x*x^n*e^{(m\log(e) + m\log(x))} + 3*B*a*b^2*d*x*x^n*e^{(m\log(e) + m\log(x))} + \\
& A*b^3*d*x*x^n*e^{(m\log(e) + m\log(x))} + B*b^3*d*x*x^n*e^{(m\log(e) + m\log(x))} + A*a^3*c*x*e^{(m\log(e) + m\log(x))} + \\
& B*a^3*c*x*e^{(m\log(e) + m\log(x))} + 3*A*a^2*b*c*x*e^{(m\log(e) + m\log(x))} + 3*A*a*b^2*c*x*e^{(m\log(e) + m\log(x))} + \\
& A*b^3*c*x*e^{(m\log(e) + m\log(x))} + B*b^3*c*x*e^{(m\log(e) + m\log(x))} + A*a^3*d*x*e^{(m\log(e) + m\log(x))} + \\
& B*a^3*d*x*e^{(m\log(e) + m\log(x))} + 3*A*a^2*b*d*x*e^{(m\log(e) + m\log(x))} + 3*B*a^2*b*d*x*e^{(m\log(e) + m\log(x))} + \\
& 3*A*a*b^2*d*x*e^{(m\log(e) + m\log(x))} + 3*B*a*b^2*d*x*e^{(m\log(e) + m\log(x))} + \\
& A*b^3*d*x*e^{(m\log(e) + m\log(x))} + B*b^3*d*x*e^{(m\log(e) + m\log(x))} \\
& / (m^6 + 15*m^5*n + 85*m^4*n^2 + 225*m^3*n^3 + 274*m^2*n^4 + 120*m*n^5 + 6*m^5 + 75*m^4*n + 340*m^3*n^2 + 675*m^2*n^3 + 548*m*n^4 + 120*n^5 + 15*m^4 + 150*m^3*n + 510*m^2*n^2 + 675*m*n^3 + 274*n^4 + 20*m^3 + 150*m^2*n + 340*m*n^2 + 225*n^3 + 15*m^2 + 75*m*n + 85*n^2 + 6*m + 15*n + 1)
\end{aligned}$$

Mupad [B] (verification not implemented)

Time = 9.90 (sec) , antiderivative size = 1089, normalized size of antiderivative = 5.19

$$\int (ex)^m (a + bx^n)^3 (A + Bx^n) (c + dx^n) dx = \frac{Aa^3cx(ex)^m}{m+1} + \frac{b^2xx^{4n}(ex)^m(Abd+3Bad+Bbc)(m^4+11m^3n+4m^3+41m^2n^2+33m^2n+6m^5+15m^4n+5m^4+85m^3n^2+60m^3n+10m^3+225m^2n^3+255m^2n^2+90m^2n+10m^2+274)}{m^5+15m^4n+5m^4+85m^3n^2+60m^3n+10m^3+225m^2n^3+255m^2n^2+90m^2n+10m^2+274} + \frac{axx^{2n}(ex)^m(3Ab^2c+Ba^2d+3Aabd+3Babc)(m^4+13m^3n+4m^3+59m^2n^2+39m^2)}{m^5+15m^4n+5m^4+85m^3n^2+60m^3n+10m^3+225m^2n^3+255m^2n^2+90m^2n+10m^2+274} + \frac{bxx^{3n}(ex)^m(Ab^2c+3Ba^2d+3Aabd+3Babc)(m^4+12m^3n+4m^3+49m^2n^2+36m^2)}{m^5+15m^4n+5m^4+85m^3n^2+60m^3n+10m^3+225m^2n^3+255m^2n^2+90m^2n+10m^2+274} + \frac{a^2xx^n(ex)^m(Aad+3Aabc+Bac)(m^4+14m^3n+4m^3+71m^2n^2+42m^2n+6m^2)}{m^5+15m^4n+5m^4+85m^3n^2+60m^3n+10m^3+225m^2n^3+255m^2n^2+90m^2n+10m^2+274} + \frac{Bb^3dxx^{5n}(ex)^m(m^4+10m^3n+4m^3+35m^2n^2+30m^2n+6m^2+50m^2)}{m^5+15m^4n+5m^4+85m^3n^2+60m^3n+10m^3+225m^2n^3+255m^2n^2+90m^2n+10m^2+274}$$

[In] int((e*x)^m*(A + B*x^n)*(a + b*x^n)^3*(c + d*x^n),x)

[Out] (A*a^3*c*x*(e*x)^m)/(m + 1) + (b^2*x*x^(4*n)*(e*x)^m*(A*b*d + 3*B*a*d + B*b*c)*(4*m + 11*n + 33*m*n + 82*m*n^2 + 33*m^2*n + 61*m*n^3 + 11*m^3*n + 6*m^2 + 4*m^3 + m^4 + 41*n^2 + 61*n^3 + 30*n^4 + 41*m^2*n^2 + 1))/(5*m + 15*n + 60*m*n + 255*m*n^2 + 90*m^2*n + 450*m*n^3 + 60*m^3*n + 274*m*n^4 + 15*m^4*n + 10*m^2 + 10*m^3 + 5*m^4 + m^5 + 85*n^2 + 225*n^3 + 274*n^4 + 120*n^5 + 255*m^2*n^2 + 225*m^2*n^3 + 85*m^3*n^2 + 1) + (a*x*x^(2*n)*(e*x)^m*(3*A*b^2*c + B*a^2*d + 3*A*a*b*d + 3*B*a*b*c)*(4*m + 13*n + 39*m*n + 118*m*n^2 + 39*m^2*n + 107*m*n^3 + 13*m^3*n + 6*m^2 + 4*m^3 + m^4 + 59*n^2 + 107*n^3 + 60*n^4 + 59*m^2*n^2 + 1))/(5*m + 15*n + 60*m*n + 255*m*n^2 + 90*m^2*n + 450*m*n^3 + 60*m^3*n + 274*m*n^4 + 15*m^4*n + 10*m^2 + 10*m^3 + 5*m^4 + m^5 + 85*n^2 + 225*n^3 + 274*n^4 + 120*n^5 + 255*m^2*n^2 + 225*m^2*n^3 + 85*m^3*n^2 + 1) + (b*x*x^(3*n)*(e*x)^m*(A*b^2*c + 3*B*a^2*d + 3*A*a*b*d + 3*B*a*b*c)*(4*m + 12*n + 36*m*n + 98*m*n^2 + 36*m^2*n + 78*m*n^3 + 12*m^3*n + 6*m^2 + 4*m^3 + m^4 + 49*n^2 + 78*n^3 + 40*n^4 + 49*m^2*n^2 + 1))/(5*m + 15*n + 60*m*n + 255*m*n^2 + 90*m^2*n + 450*m*n^3 + 60*m^3*n + 274*m*n^4 + 15*m^4*n + 10*m^2 + 10*m^3 + 5*m^4 + m^5 + 85*n^2 + 225*n^3 + 274*n^4 + 120*n^5 + 255*m^2*n^2 + 225*m^2*n^3 + 85*m^3*n^2 + 1) + (a^2*x*x^n*(e*x)^m*(A*a*d + 3*A*b*c + B*a*c)*(4*m + 14*n + 42*m*n + 142*m*n^2 + 42*m^2*n + 154*m*n^3 + 14*m^3*n + 6*m^2 + 4*m^3 + m^4 + 71*n^2 + 154*n^3 + 120*n^4 + 71*m^2*n^2 + 1))/(5*m + 15*n + 60*m*n + 255*m*n^2 + 90*m^2*n + 450*m*n^3 + 60*m^3*n + 274*m*n^4 + 15*m^4*n + 10*m^2 + 10*m^3 + 5*m^4 + m^5 + 85*n^2 + 225*n^3 + 274*n^4 + 120*n^5 + 255*m^2*n^2 + 225*m^2*n^3 + 85*m^3*n^2 + 1) + (B*b^3*d*x*x^(5*n)*(e*x)^m*(4*m + 10*n + 30*m*n + 70*m*n^2 + 30*m^2*n + 50*m*n^3 + 10*m^3*n + 6*m^2 + 4*m^3 + m^4 + 35*n^2 + 50*n^3 + 24*n^4 + 35*m^2*n^2 + 1))/(5*m + 15*n + 60*m*n + 255*m*n^2 + 90*m^2*n + 450*m*n^3 + 60*m^3*n + 274*m*n^4 + 15*m^4*n + 10*m^2 + 10*m^3 + 5*m^4 + m^5 + 85*n^2 + 225*n^3 + 274*n^4 + 120*n^5 + 255*m^2*n^2 + 225*m^2*n^3 + 85*m^3*n^2 + 1)

3.2 $\int (ex)^m (a + bx^n)^2 (A + Bx^n) (c + dx^n) dx$

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Optimal result

Integrand size = 29, antiderivative size = 160

$$\int (ex)^m (a + bx^n)^2 (A + Bx^n) (c + dx^n) dx = \frac{a(2Abc + aBc + aAd)x^{1+n}(ex)^m}{1 + m + n} + \frac{(aB(2bc + ad) + Ab(bc + 2ad))x^{1+2n}(ex)^m}{1 + m + 2n} + \frac{b(bBc + Abd + 2aBd)x^{1+3n}(ex)^m}{1 + m + 3n} + \frac{b^2Bdx^{1+4n}(ex)^m}{1 + m + 4n} + \frac{a^2Ac(ex)^{1+m}}{e(1 + m)}$$

[Out] a*(A*a*d+2*A*b*c+B*a*c)*x^(1+n)*(e*x)^m/(1+m+n)+(a*B*(a*d+2*b*c)+A*b*(2*a*d+b*c))*x^(1+2*n)*(e*x)^m/(1+m+2*n)+b*(A*b*d+2*B*a*d+B*b*c)*x^(1+3*n)*(e*x)^m/(1+m+3*n)+b^2*B*d*x^(1+4*n)*(e*x)^m/(1+m+4*n)+a^2*A*c*(e*x)^(1+m)/e/(1+m)

Rubi [A] (verified)

Time = 0.11 (sec) , antiderivative size = 160, normalized size of antiderivative = 1.00, number of steps used = 10, number of rules used = 3, $\frac{\text{number of rules}}{\text{integrand size}} = 0.103$, Rules used = {584, 20, 30}

$$\int (ex)^m (a + bx^n)^2 (A + Bx^n) (c + dx^n) dx = \frac{a^2 Ac(ex)^{m+1}}{e(m + 1)} + \frac{ax^{n+1}(ex)^m(aAd + aBc + 2Abc)}{m + n + 1} + \frac{x^{2n+1}(ex)^m(Ab(2ad + bc) + aB(ad + 2bc))}{m + 2n + 1} + \frac{bx^{3n+1}(ex)^m(2aBd + Abd + bBc)}{m + 3n + 1} + \frac{b^2Bdx^{4n+1}(ex)^m}{m + 4n + 1}$$

[In] Int[(e*x)^m*(a + b*x^n)^2*(A + B*x^n)*(c + d*x^n), x]

[Out] (a*(2*A*b*c + a*B*c + a*A*d)*x^(1 + n)*(e*x)^m)/(1 + m + n) + ((a*B*(2*b*c + a*d) + A*b*(b*c + 2*a*d))*x^(1 + 2*n)*(e*x)^m)/(1 + m + 2*n) + (b*(b*B*c + A*b*d + 2*a*B*d)*x^(1 + 3*n)*(e*x)^m)/(1 + m + 3*n) + (b^2*B*d*x^(1 + 4*n)*(e*x)^m)/(1 + m + 4*n) + (a^2*A*c*(e*x)^(1 + m))/(e*(1 + m))

Rule 20

Int[(u_)*((a_)*(v_))^(m_)*((b_)*(v_))^(n_), x_Symbol] := Dist[b^IntPart[n]*((b*v)^FracPart[n]/(a^IntPart[n]*(a*v)^FracPart[n])), Int[u*(a*v)^(m + n), x], x] /; FreeQ[{a, b, m, n}, x] && !IntegerQ[m] && !IntegerQ[n] && !IntegerQ[m + n]

Rule 30

Int[(x_)^(m_), x_Symbol] := Simp[x^(m + 1)/(m + 1), x] /; FreeQ[m, x] && N eQ[m, -1]

Rule 584

Int[((g_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_)*((e_) + (f_)*(x_)^(n_))^(r_), x_Symbol] := Int[ExpandIntegrand[(g*x)^m*(a + b*x^n)^p*(c + d*x^n)^q*(e + f*x^n)^r, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n}, x] && IGtQ[p, -2] && IGtQ[q, 0] && IGtQ[r, 0]

Rubi steps

$$\begin{aligned}
 \text{integral} &= \int (a^2 Ac(ex)^m + a(2Abc + aBc + aAd)x^n(ex)^m \\
 &\quad + (aB(2bc + ad) + Ab(bc + 2ad))x^{2n}(ex)^m + b(bBc + Abd + 2aBd)x^{3n}(ex)^m \\
 &\quad + b^2 Bdx^{4n}(ex)^m) dx \\
 &= \frac{a^2 Ac(ex)^{1+m}}{e(1+m)} + (b^2 Bd) \int x^{4n}(ex)^m dx + (a(2Abc + aBc + aAd)) \int x^n(ex)^m dx \\
 &\quad + (b(bBc + Abd + 2aBd)) \int x^{3n}(ex)^m dx + (aB(2bc + ad) + Ab(bc + 2ad)) \int x^{2n}(ex)^m dx \\
 &= \frac{a^2 Ac(ex)^{1+m}}{e(1+m)} + (b^2 Bdx^{-m}(ex)^m) \int x^{m+4n} dx \\
 &\quad + (a(2Abc + aBc + aAd)x^{-m}(ex)^m) \int x^{m+n} dx \\
 &\quad + (b(bBc + Abd + 2aBd)x^{-m}(ex)^m) \int x^{m+3n} dx \\
 &\quad + ((aB(2bc + ad) + Ab(bc + 2ad))x^{-m}(ex)^m) \int x^{m+2n} dx
 \end{aligned}$$

$$= \frac{a(2Abc + aBc + aAd)x^{1+n}(ex)^m}{1+m+n} + \frac{(aB(2bc + ad) + Ab(bc + 2ad))x^{1+2n}(ex)^m}{1+m+2n} + \frac{b(bBc + Abd + 2aBd)x^{1+3n}(ex)^m}{1+m+3n} + \frac{b^2Bdx^{1+4n}(ex)^m}{1+m+4n} + \frac{a^2Ac(ex)^{1+m}}{e(1+m)}$$

Mathematica [A] (verified)

Time = 0.39 (sec) , antiderivative size = 129, normalized size of antiderivative = 0.81

$$\int (ex)^m (a + bx^n)^2 (A + Bx^n) (c + dx^n) dx = x(ex)^m \left(\frac{a^2Ac}{1+m} + \frac{a(2Abc + aBc + aAd)x^n}{1+m+n} + \frac{(aB(2bc + ad) + Ab(bc + 2ad))x^{2n}}{1+m+2n} + \frac{b(bBc + Abd + 2aBd)x^{3n}}{1+m+3n} + \frac{b^2Bdx^{4n}}{1+m+4n} \right)$$

[In] Integrate[(e*x)^m*(a + b*x^n)^2*(A + B*x^n)*(c + d*x^n), x]

[Out] x*(e*x)^m*((a^2*A*c)/(1 + m) + (a*(2*A*b*c + a*B*c + a*A*d)*x^n)/(1 + m + n) + ((a*B*(2*b*c + a*d) + A*b*(b*c + 2*a*d))*x^(2*n))/(1 + m + 2*n) + (b*(b*B*c + A*b*d + 2*a*B*d)*x^(3*n))/(1 + m + 3*n) + (b^2*B*d*x^(4*n))/(1 + m + 4*n))

Maple [C] (warning: unable to verify)

Result contains higher order function than in optimal. Order 9 vs. order 3.

Time = 2.40 (sec) , antiderivative size = 2377, normalized size of antiderivative = 14.86

method	result	size
risch	Expression too large to display	2377
parallelrisch	Expression too large to display	3344

[In] int((e*x)^m*(a+b*x^n)^2*(A+B*x^n)*(c+d*x^n), x, method=_RETURNVERBOSE)

[Out] x*(8*B*a*b*c*m^3*(x^n)^2+48*A*a*b*d*m^2*n*(x^n)^2+19*A*b^2*c*m^2*n^2*(x^n)^2+38*A*a*b*d*n^2*(x^n)^2+4*A*b^2*d*(x^n)^3+m+26*A*a^2*d*m^2*n^2*x^n+21*A*b^2*d*m*n*(x^n)^3+2*B*a*b*d*m^4*(x^n)^3+21*B*b^2*c*m^2*n*(x^n)^3+6*b^2*B*d*(x^n)^4+n+4*A*a^2*d*m^3*x^n+24*A*a^2*d*n^3*x^n+16*B*a*b*d*n^3*(x^n)^3+24*B*a*b*c*m*n^3*(x^n)^2+56*B*a*b*d*m*n^2*(x^n)^3+4*A*a^2*c*m+8*A*b^2*c*m^3*n*(x^n)^2+12*B*a*b*d*m^2*(x^n)^3+14*B*a*b*d*m^3*n*(x^n)^3+A*a^2*d*m^4*x^n+24*A*a^2*c*n^4+8*B*a^2*d*m^3*n*(x^n)^2+6*A*a^2*d*m^2*x^n+18*B*b^2*d*m*n*(x^n)^4+42*B*a*b*d*m^2*n*(x^n)^3+B*a^2*d*(x^n)^2+A*a^2*c*m^4+4*A*a^2*c*m^3+50*A*a^2*c*n^3+6*A*a^2*c*m^2+35*A*a^2*c*n^2+27*B*a^2*c*m^2*n*x^n+52*B*a^2*c*m*n^2*x^n+9*A*a^2*d*m^3*n*x^n+b^2*B*d*(x^n)^4+8*B*b^2*c*m*n^3*(x^n)^3+18*B*b^2*d*m^2

$$\begin{aligned}
& *n*(x^n)^4+24*A*a*b*d*m*n^3*(x^n)^2+12*B*a*b*c*m^2*(x^n)^2+38*B*a*b*c*n^2*(x^n)^2+8*B*a*b*d*(x^n)^3+m+48*B*a*b*c*m^2*n*(x^n)^2+38*A*b^2*c*m*n^2*(x^n)^2+24*B*a^2*d*m^2*n*(x^n)^2+24*A*b^2*c*m^2*n*(x^n)^2+10*A*a^2*c*n+12*A*b^2*c*m*n^3*(x^n)^2+24*B*a^2*c*m*n^3*x^n+8*A*b^2*d*n^3*(x^n)^3+18*A*a*b*c*m^3*n*x^n+48*B*a*b*c*m*n*(x^n)^2+54*A*a*b*c*m^2*n*x^n+12*B*a^2*d*m*n^3*(x^n)^2+2*B*a*b*c*m^4*(x^n)^2+4*A*a^2*d*x^n*m+9*A*a^2*d*x^n*n+4*B*b^2*c*(x^n)^3+m+7*B*b^2*c*(x^n)^3*n+48*A*a*b*c*n^3*x^n+22*B*b^2*d*m*n^2*(x^n)^4+16*B*a*b*c*m^3*n*(x^n)^2+14*A*b^2*d*m^2*n^2*(x^n)^3+8*A*a*b*d*m^3*(x^n)^2+24*B*a*b*c*n^3*(x^n)^2+16*A*a*b*d*m^3*n*(x^n)^2+7*A*b^2*d*m^3*n*(x^n)^3+2*A*a*b*d*m^4*(x^n)^2+21*B*b^2*c*m*n*(x^n)^3+52*A*a*b*c*m^2*n^2*x^n+38*A*a*b*d*m^2*n^2*(x^n)^2+2*(x^n)^2*A*a*b*d+2*(x^n)^2*B*b*c*a+A*a^2*c+x^n*B*a^2*c+6*B*b^2*c*m^2*(x^n)^3+14*B*b^2*c*n^2*(x^n)^3+4*m*b^2*B*d*(x^n)^4+4*B*b^2*c*m^3*(x^n)^3+8*B*b^2*c*n^3*(x^n)^3+26*B*a^2*c*n^2*x^n+4*B*a^2*d*(x^n)^2*m+8*B*a^2*d*(x^n)^2*n+6*B*b^2*d*m^3*n*(x^n)^4+11*B*b^2*d*m^2*n^2*(x^n)^4+27*A*a^2*d*m*n*x^n+12*A*a*b*c*m^2*x^n+24*A*b^2*c*m*n*(x^n)^2+12*B*a^2*d*n^3*(x^n)^2+28*B*a*b*d*m^2*n^2*(x^n)^3+8*B*a*b*d*m^3*(x^n)^3+14*B*a*b*d*(x^n)^3*n+28*B*a*b*d*n^2*(x^n)^3+26*B*a^2*c*m^2*n^2*x^n+2*A*a*b*c*m^4*x^n+16*B*a*b*d*m*n^3*(x^n)^3+42*B*a*b*d*m*n*(x^n)^3+9*B*a^2*c*m^3*n*x^n+12*A*a*b*d*m^2*(x^n)^2+A*b^2*d*(x^n)^3+B*b^2*c*(x^n)^3+76*A*a*b*d*m*n^2*(x^n)^2+21*A*b^2*d*m^2*n*(x^n)^3+30*A*a^2*c*m^2*n+70*A*a^2*c*m*n^2+30*A*a^2*c*m*n+8*A*a*b*c*m^3*x^n+76*B*a*b*c*m*n^2*(x^n)^2+24*B*a^2*d*m*n*(x^n)^2+38*B*a*b*c*m^2*n^2*(x^n)^2+16*B*a*b*c*(x^n)^2*n+24*A*a^2*d*m*n^3*x^n+38*B*a^2*d*m*n^2*(x^n)^2+48*A*a*b*c*m*n^3*x^n+104*A*a*b*c*m*n^2*x^n+54*A*a*b*c*m*n*x^n+6*A*b^2*c*m^2*(x^n)^2+19*A*b^2*c*n^2*(x^n)^2+B*a^2*d*m^4*(x^n)^2+28*B*b^2*c*m*n^2*(x^n)^3+6*B*b^2*d*m*n^3*(x^n)^4+7*B*b^2*c*m^3*n*(x^n)^3+14*B*b^2*c*m^2*n^2*(x^n)^3+48*A*a*b*d*m*n*(x^n)^2+16*A*a*b*d*(x^n)^2*n+28*A*b^2*d*m*n^2*(x^n)^3+8*A*b^2*d*m*n^3*(x^n)^3+A*a^2*d*x^n+24*A*a*b*d*n^3*(x^n)^2+4*B*b^2*d*m^3*(x^n)^4+6*B*b^2*d*n^3*(x^n)^4+A*b^2*c*m^4*(x^n)^2+4*A*b^2*d*m^3*(x^n)^3+12*A*b^2*c*n^3*(x^n)^2+6*A*b^2*d*m^2*(x^n)^3+14*A*b^2*d*n^2*(x^n)^3+27*B*a^2*c*m*n*x^n+8*B*a*b*c*(x^n)^2*m+8*A*a*b*c*x^n*m+18*A*a*b*c*x^n*n+19*B*a^2*d*m^2*n^2*(x^n)^2+52*A*a*b*c*n^2*x^n+8*A*a*b*d*(x^n)^2*m+27*A*a^2*d*m^2*n*x^n+52*A*a^2*d*m*n^2*x^n+7*A*b^2*d*(x^n)^3*n+4*B*a^2*c*m^3*x^n+24*B*a^2*c*n^3*x^n+6*B*a^2*d*m^2*(x^n)^2+19*B*a^2*d*n^2*(x^n)^2+10*A*a^2*c*m^3*n+35*A*a^2*c*m^2*n^2+50*A*a^2*c*m*n^3+26*A*a^2*d*n^2*x^n+4*A*b^2*c*(x^n)^2*m+8*A*b^2*c*(x^n)^2*n+6*B*a^2*c*m^2*x^n+6*B*b^2*d*m^2*(x^n)^4+11*B*b^2*d*n^2*(x^n)^4+4*A*b^2*c*m^3*(x^n)^2+4*B*a^2*c*x^n*m+9*B*a^2*c*x^n*n+B*a^2*c*m^4*x^n+4*B*a^2*d*m^3*(x^n)^2+2*(x^n)^3*B*a*b*d+A*b^2*c*(x^n)^2+B*b^2*d*m^4*(x^n)^4+A*b^2*d*m^4*(x^n)^3+B*b^2*c*m^4*(x^n)^3+2*x^n*A*a*b*c)/(1+m)/(1+m+n)/(1+m+2*n)/(1+m+3*n)/(1+m+4*n)*x^m*e^m*exp(1/2*I*csgn(I*e*x)*Pi*m*(csgn(I*e*x)-csgn(I*x))*(-csgn(I*e*x)+csgn(I*e)))
\end{aligned}$$

Fricas [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 1524 vs. $2(160) = 320$.

Time = 0.32 (sec) , antiderivative size = 1524, normalized size of antiderivative = 9.52

$$\int (ex)^m (a + bx^n)^2 (A + Bx^n)(c + dx^n) dx = \text{Too large to display}$$

[In] integrate((e*x)^m*(a+b*x^n)^2*(A+B*x^n)*(c+d*x^n),x, algorithm="fricas")

[Out] ((B*b^2*d*m^4 + 4*B*b^2*d*m^3 + 6*B*b^2*d*m^2 + 4*B*b^2*d*m + B*b^2*d + 6*(B*b^2*d*m + B*b^2*d)*n^3 + 11*(B*b^2*d*m^2 + 2*B*b^2*d*m + B*b^2*d)*n^2 + 6*(B*b^2*d*m^3 + 3*B*b^2*d*m^2 + 3*B*b^2*d*m + B*b^2*d)*n)*x*x^(4*n)*e^(m*log(e) + m*log(x)) + ((B*b^2*c + (2*B*a*b + A*b^2)*d)*m^4 + B*b^2*c + 4*(B*b^2*c + (2*B*a*b + A*b^2)*d)*m^3 + 8*(B*b^2*c + (2*B*a*b + A*b^2)*d + (B*b^2*c + (2*B*a*b + A*b^2)*d)*m)*n^3 + 6*(B*b^2*c + (2*B*a*b + A*b^2)*d)*m^2 + 14*(B*b^2*c + (B*b^2*c + (2*B*a*b + A*b^2)*d)*m^2 + (2*B*a*b + A*b^2)*d + 2*(B*b^2*c + (2*B*a*b + A*b^2)*d)*m)*n^2 + (2*B*a*b + A*b^2)*d + 4*(B*b^2*c + (2*B*a*b + A*b^2)*d)*m + 7*(B*b^2*c + (B*b^2*c + (2*B*a*b + A*b^2)*d)*m^3 + 3*(B*b^2*c + (2*B*a*b + A*b^2)*d)*m^2 + (2*B*a*b + A*b^2)*d + 3*(B*b^2*c + (2*B*a*b + A*b^2)*d)*m)*n)*x*x^(3*n)*e^(m*log(e) + m*log(x)) + (((2*B*a*b + A*b^2)*c + (B*a^2 + 2*A*a*b)*d)*m^4 + 4*((2*B*a*b + A*b^2)*c + (B*a^2 + 2*A*a*b)*d)*m^3 + 12*((2*B*a*b + A*b^2)*c + (B*a^2 + 2*A*a*b)*d + ((2*B*a*b + A*b^2)*c + (B*a^2 + 2*A*a*b)*d)*m)*n^3 + 6*((2*B*a*b + A*b^2)*c + (B*a^2 + 2*A*a*b)*d)*m^2 + 19*((2*B*a*b + A*b^2)*c + (B*a^2 + 2*A*a*b)*d)*m^2 + (2*B*a*b + A*b^2)*c + (B*a^2 + 2*A*a*b)*d + 2*((2*B*a*b + A*b^2)*c + (B*a^2 + 2*A*a*b)*d)*m)*n^2 + (2*B*a*b + A*b^2)*c + (B*a^2 + 2*A*a*b)*d + 4*((2*B*a*b + A*b^2)*c + (B*a^2 + 2*A*a*b)*d)*m + 8*((2*B*a*b + A*b^2)*c + (B*a^2 + 2*A*a*b)*d)*m^3 + 3*((2*B*a*b + A*b^2)*c + (B*a^2 + 2*A*a*b)*d)*m^2 + (2*B*a*b + A*b^2)*c + (B*a^2 + 2*A*a*b)*d + 3*((2*B*a*b + A*b^2)*c + (B*a^2 + 2*A*a*b)*d)*m)*n)*x*x^(2*n)*e^(m*log(e) + m*log(x)) + ((A*a^2*d + (B*a^2 + 2*A*a*b)*c)*m^4 + A*a^2*d + 4*(A*a^2*d + (B*a^2 + 2*A*a*b)*c)*m^3 + 24*(A*a^2*d + (B*a^2 + 2*A*a*b)*c + (A*a^2*d + (B*a^2 + 2*A*a*b)*c)*m)*n^3 + 6*(A*a^2*d + (B*a^2 + 2*A*a*b)*c)*m^2 + 26*(A*a^2*d + (A*a^2*d + (B*a^2 + 2*A*a*b)*c)*m^2 + (B*a^2 + 2*A*a*b)*c + 2*(A*a^2*d + (B*a^2 + 2*A*a*b)*c)*m)*n^2 + (B*a^2 + 2*A*a*b)*c + 4*(A*a^2*d + (B*a^2 + 2*A*a*b)*c)*m + 9*(A*a^2*d + (A*a^2*d + (B*a^2 + 2*A*a*b)*c)*m^3 + 3*(A*a^2*d + (B*a^2 + 2*A*a*b)*c)*m^2 + (B*a^2 + 2*A*a*b)*c + 3*(A*a^2*d + (B*a^2 + 2*A*a*b)*c)*m)*n)*x*x^n*e^(m*log(e) + m*log(x)) + (A*a^2*c*m^4 + 24*A*a^2*c*n^4 + 4*A*a^2*c*m^3 + 6*A*a^2*c*m^2 + 4*A*a^2*c*m + A*a^2*c + 50*(A*a^2*c*m + A*a^2*c)*n^3 + 35*(A*a^2*c*m^2 + 2*A*a^2*c*m + A*a^2*c)*n^2 + 10*(A*a^2*c*m^3 + 3*A*a^2*c*m^2 + 3*A*a^2*c*m + A*a^2*c)*n)*x*e^(m*log(e) + m*log(x)))/(m^5 + 24*(m + 1)*n^4 + 5*m^4 + 50*(m^2 + 2*m + 1)*n^3 + 10*m^3 + 35*(m^3 + 3*m^2 + 3*m + 1)*n^2 + 10*m^2 + 10*(m^4 + 4*m^3 + 6*m^2 + 4*m + 1)*n + 5*m + 1)

Sympy [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 25315 vs. $2(156) = 312$.

Time = 7.33 (sec) , antiderivative size = 25315, normalized size of antiderivative = 158.22

$$\int (ex)^m (a + bx^n)^2 (A + Bx^n) (c + dx^n) dx = \text{Too large to display}$$

[In] integrate((e*x)**m*(a+b*x**n)**2*(A+B*x**n)*(c+d*x**n),x)

[Out] Piecewise(((A + B)*(a + b)**2*(c + d)*log(x)/e, Eq(m, -1) & Eq(n, 0)), ((A*a**2*c*log(x) + A*a**2*d*x**n/n + 2*A*a*b*c*x**n/n + A*a*b*d*x**(2*n)/n + A*b**2*c*x**(2*n)/(2*n) + A*b**2*d*x**(3*n)/(3*n) + B*a**2*c*x**n/n + B*a**2*d*x**(2*n)/(2*n) + B*a*b*c*x**(2*n)/n + 2*B*a*b*d*x**(3*n)/(3*n) + B*b**2*c*x**(3*n)/(3*n) + B*b**2*d*x**(4*n)/(4*n))/e, Eq(m, -1)), (A*a**2*c*Piecewise((0**(-4*n - 1)*x, Eq(e, 0)), (Piecewise((-1/(4*n*(e*x)**(4*n)), Ne(n, 0))), (log(e*x), True))/e, True)) + A*a**2*d*Piecewise((-x*x**n*(e*x)**(-4*n - 1)/(3*n), Ne(n, 0)), (x*x**n*(e*x)**(-4*n - 1)*log(x), True)) + 2*A*a*b*c*Piecewise((-x*x**n*(e*x)**(-4*n - 1)/(3*n), Ne(n, 0)), (x*x**n*(e*x)**(-4*n - 1)*log(x), True)) + 2*A*a*b*d*Piecewise((-x*x**(2*n)*(e*x)**(-4*n - 1)/(2*n), Ne(n, 0)), (x*x**(2*n)*(e*x)**(-4*n - 1)*log(x), True)) + A*b**2*c*Piecewise((-x*x**(2*n)*(e*x)**(-4*n - 1)/(2*n), Ne(n, 0)), (x*x**(2*n)*(e*x)**(-4*n - 1)*log(x), True)) + A*b**2*d*Piecewise((-x*x**(3*n)*(e*x)**(-4*n - 1)/n, Ne(n, 0)), (x*x**(3*n)*(e*x)**(-4*n - 1)*log(x), True)) + B*a**2*c*Piecewise((-x*x**n*(e*x)**(-4*n - 1)/(3*n), Ne(n, 0)), (x*x**n*(e*x)**(-4*n - 1)*log(x), True)) + B*a**2*d*Piecewise((-x*x**(2*n)*(e*x)**(-4*n - 1)/(2*n), Ne(n, 0)), (x*x**(2*n)*(e*x)**(-4*n - 1)*log(x), True)) + 2*B*a*b*c*Piecewise((-x*x**(2*n)*(e*x)**(-4*n - 1)/(2*n), Ne(n, 0)), (x*x**(2*n)*(e*x)**(-4*n - 1)*log(x), True)) + 2*B*a*b*d*Piecewise((-x*x**(3*n)*(e*x)**(-4*n - 1)/n, Ne(n, 0)), (x*x**(3*n)*(e*x)**(-4*n - 1)*log(x), True)) + B*b**2*c*Piecewise((-x*x**(3*n)*(e*x)**(-4*n - 1)/n, Ne(n, 0)), (x*x**(3*n)*(e*x)**(-4*n - 1)*log(x), True)) + B*b**2*d*x*x**(4*n)*(e*x)**(-4*n - 1)*log(x), Eq(m, -4*n - 1)), (A*a**2*c*Piecewise((0**(-3*n - 1)*x, Eq(e, 0)), (Piecewise((-1/(3*n*(e*x)**(3*n)), Ne(n, 0))), (log(e*x), True))/e, True)) + A*a**2*d*Piecewise((-x*x**n*(e*x)**(-3*n - 1)/(2*n), Ne(n, 0)), (x*x**n*(e*x)**(-3*n - 1)*log(x), True)) + 2*A*a*b*c*Piecewise((-x*x**n*(e*x)**(-3*n - 1)/(2*n), Ne(n, 0)), (x*x**n*(e*x)**(-3*n - 1)*log(x), True)) + 2*A*a*b*d*Piecewise((-x*x**(2*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x*x**(2*n)*(e*x)**(-3*n - 1)*log(x), True)) + A*b**2*c*Piecewise((-x*x**(2*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x*x**(2*n)*(e*x)**(-3*n - 1)*log(x), True)) + A*b**2*d*x*x**(3*n)*(e*x)**(-3*n - 1)*log(x) + B*a**2*c*Piecewise((-x*x**n*(e*x)**(-3*n - 1)/(2*n), Ne(n, 0)), (x*x**n*(e*x)**(-3*n - 1)*log(x), True)) + B*a**2*d*Piecewise((-x*x**(2*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x*x**(2*n)*(e*x)**(-3*n - 1)*log(x), True)) + 2*B*a*b*c*Piecewise((-x*x**(2*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x*x**(2*n)*(e*x)**(-3*n - 1)*log(x), True)) + 2*B*a*b*d*x*x**(3*n)

$$\begin{aligned}
&)*(e^x)^{-(3n-1)}\log(x) + B^{**2}c^{**}x^{**3n}(e^x)^{-(3n-1)}\log(x) + \\
& B^{**2}d^{**}\text{Piecewise}((x^{**4n}(e^x)^{-(3n-1)}/n, \text{Ne}(n, 0)), (x^{**4n} \\
& *(e^x)^{-(3n-1)}\log(x), \text{True})), \text{Eq}(m, -3n-1)), (A^{**2}c^{**}\text{Piecewise}((0 \\
& **(-2n-1)x, \text{Eq}(e, 0)), (\text{Piecewise}((-1/(2n*(e^x)^{2n})), \text{Ne}(n, 0)), (1 \\
& \log(e^x), \text{True}))/e, \text{True})) + A^{**2}d^{**}\text{Piecewise}((-x^{**n}(e^x)^{-(2n-1)}/n \\
& , \text{Ne}(n, 0)), (x^{**n}(e^x)^{-(2n-1)}\log(x), \text{True})) + 2A^{**}b^{**}c^{**}\text{Piecewise} \\
& ((-x^{**n}(e^x)^{-(2n-1)}/n, \text{Ne}(n, 0)), (x^{**n}(e^x)^{-(2n-1)}\log(x), \\
& \text{True})) + 2A^{**}a^{**}b^{**}d^{**}x^{**2n}(e^x)^{-(2n-1)}\log(x) + A^{**2}c^{**}x^{**2n} \\
& n)(e^x)^{-(2n-1)}\log(x) + A^{**2}d^{**}\text{Piecewise}((x^{**3n}(e^x)^{-(2n-1)}/n, \text{Ne}(n, 0)), (x^{**3n}(e^x)^{-(2n-1)}\log(x), \text{True})) + B^{**2}c^{**}\text{P} \\
& \text{iecewise}((-x^{**n}(e^x)^{-(2n-1)}/n, \text{Ne}(n, 0)), (x^{**n}(e^x)^{-(2n-1)} \\
& *\log(x), \text{True})) + B^{**2}d^{**}x^{**2n}(e^x)^{-(2n-1)}\log(x) + 2B^{**}a^{**}b^{**}c^{**} \\
& x^{**2n}(e^x)^{-(2n-1)}\log(x) + 2B^{**}a^{**}b^{**}d^{**}\text{Piecewise}((x^{**3n}(e^x)^{-(2n-1)}/n, \text{Ne}(n, 0)), (x^{**3n}(e^x)^{-(2n-1)}\log(x), \text{True})) + B \\
& **2c^{**}\text{Piecewise}((x^{**3n}(e^x)^{-(2n-1)}/n, \text{Ne}(n, 0)), (x^{**3n}(e^x)^{-(2n-1)}\log(x), \text{True})) + B^{**2}d^{**}\text{Piecewise}((x^{**4n}(e^x)^{-(2n-1)}/(2n), \text{Ne}(n, 0)), (x^{**4n}(e^x)^{-(2n-1)}\log(x), \text{True})), \text{Eq}(\\
& m, -2n-1)), (A^{**2}c^{**}\text{Piecewise}((0**(-n-1)x, \text{Eq}(e, 0)), (\text{Piecewise}((-1/(n*(e^x)^{**n})), \text{Ne}(n, 0)), (\log(e^x), \text{True}))/e, \text{True})) + A^{**2}d^{**}x^{**n}(e \\
& x)^{-(n-1)}\log(x) + 2A^{**}a^{**}b^{**}c^{**}x^{**n}(e^x)^{-(n-1)}\log(x) + 2A^{**}a^{**}b^{**}d^{**} \\
& \text{Piecewise}((x^{**2n}(e^x)^{-(n-1)}/n, \text{Ne}(n, 0)), (x^{**2n}(e^x)^{-(n-1)}\log(x), \text{True})) + A^{**2}c^{**}\text{Piecewise}((x^{**2n}(e^x)^{-(n-1)}/n, \text{Ne}(\\
& n, 0)), (x^{**2n}(e^x)^{-(n-1)}\log(x), \text{True})) + A^{**2}d^{**}\text{Piecewise}((x^{**3n}(e^x)^{-(n-1)}/(2n), \text{Ne}(n, 0)), (x^{**3n}(e^x)^{-(n-1)}\log(x), \text{True})) + B^{**2}c^{**}x^{**n}(e^x)^{-(n-1)}\log(x) + B^{**2}d^{**}\text{Piecewise}((x \\
& x^{**2n}(e^x)^{-(n-1)}/n, \text{Ne}(n, 0)), (x^{**2n}(e^x)^{-(n-1)}\log(x), \\
& \text{True})) + 2B^{**}a^{**}b^{**}c^{**}\text{Piecewise}((x^{**2n}(e^x)^{-(n-1)}/n, \text{Ne}(n, 0)), (x^{**2n}(e^x)^{-(n-1)}\log(x), \text{True})) + 2B^{**}a^{**}b^{**}d^{**}\text{Piecewise}((x^{**3n}(e^x)^{-(n-1)}/(2n), \text{Ne}(n, 0)), (x^{**3n}(e^x)^{-(n-1)}\log(x), \text{True})) \\
& + B^{**2}c^{**}\text{Piecewise}((x^{**3n}(e^x)^{-(n-1)}/(2n), \text{Ne}(n, 0)), (x^{**3n}(e^x)^{-(n-1)}\log(x), \text{True})) + B^{**2}d^{**}\text{Piecewise}((x^{**4n}(e^x)^{-(n-1)}/(3n), \text{Ne}(n, 0)), (x^{**4n}(e^x)^{-(n-1)}\log(x), \text{True})), \text{Eq}(\\
& m, -n-1)), (A^{**2}c^{**}m^{**4}x*(e^x)^{**m}/(m^{**5} + 10m^{**4}n + 5m^{**4} + 35m^{**3} \\
& n^{**2} + 40m^{**3}n + 10m^{**3} + 50m^{**2}n^{**3} + 105m^{**2}n^{**2} + 60m^{**2}n + 10 \\
& m^{**2} + 24m^{**}n^{**4} + 100m^{**}n^{**3} + 105m^{**}n^{**2} + 40m^{**}n + 5m + 24n^{**4} + 50n \\
& **3 + 35n^{**2} + 10n + 1) + 10A^{**2}c^{**}m^{**3}n*x*(e^x)^{**m}/(m^{**5} + 10m^{**4}n \\
& + 5m^{**4} + 35m^{**3}n^{**2} + 40m^{**3}n + 10m^{**3} + 50m^{**2}n^{**3} + 105m^{**2}n^{**} \\
& *2 + 60m^{**2}n + 10m^{**2} + 24m^{**}n^{**4} + 100m^{**}n^{**3} + 105m^{**}n^{**2} + 40m^{**}n + 5 \\
& m + 24n^{**4} + 50n^{**3} + 35n^{**2} + 10n + 1) + 4A^{**2}c^{**}m^{**3}x*(e^x)^{**m}/(\\
& m^{**5} + 10m^{**4}n + 5m^{**4} + 35m^{**3}n^{**2} + 40m^{**3}n + 10m^{**3} + 50m^{**2}n^{**} \\
& *3 + 105m^{**2}n^{**2} + 60m^{**2}n + 10m^{**2} + 24m^{**}n^{**4} + 100m^{**}n^{**3} + 105m^{**}n \\
& **2 + 40m^{**}n + 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + 10n + 1) + 35A^{**2}c^{**} \\
& m^{**2}n^{**2}x*(e^x)^{**m}/(m^{**5} + 10m^{**4}n + 5m^{**4} + 35m^{**3}n^{**2} + 40m^{**3}n \\
& + 10m^{**3} + 50m^{**2}n^{**3} + 105m^{**2}n^{**2} + 60m^{**2}n + 10m^{**2} + 24m^{**}n^{**4} \\
& + 100m^{**}n^{**3} + 105m^{**}n^{**2} + 40m^{**}n + 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + 10
\end{aligned}$$

$$\begin{aligned}
& *n + 1) + 30*A*a**2*c*m**2*n*x*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m** \\
& 3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 1 \\
& 0*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50* \\
& n**3 + 35*n**2 + 10*n + 1) + 6*A*a**2*c*m**2*x*(e*x)**m/(m**5 + 10*m**4*n + \\
& 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 \\
& + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m \\
& + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 50*A*a**2*c*m*n**3*x*(e*x)**m/ \\
& (m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n \\
& **3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m* \\
& n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 70*A*a**2*c \\
& *m*n**2*x*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + \\
& 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + \\
& 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n \\
& + 1) + 30*A*a**2*c*m*n*x*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n** \\
& 2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m** \\
& 2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 \\
& + 35*n**2 + 10*n + 1) + 4*A*a**2*c*m*x*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 \\
& + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m* \\
& *2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n* \\
& **4 + 50*n**3 + 35*n**2 + 10*n + 1) + 24*A*a**2*c*n**4*x*(e*x)**m/(m**5 + 10 \\
& *m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105* \\
& m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40* \\
& m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 50*A*a**2*c*n**3*x*(e \\
& *x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50 \\
& *m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + \\
& 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 35*A \\
& *a**2*c*n**2*x*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3 \\
& *n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n* \\
& **4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + \\
& 10*n + 1) + 10*A*a**2*c*n*x*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3* \\
& n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10* \\
& m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n* \\
& **3 + 35*n**2 + 10*n + 1) + A*a**2*c*x*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + \\
& 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m** \\
& 2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n** \\
& 4 + 50*n**3 + 35*n**2 + 10*n + 1) + A*a**2*d*m**4*x*x**n*(e*x)**m/(m**5 + 1 \\
& 0*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105 \\
& *m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40 \\
& *m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 9*A*a**2*d*m**3*n*x* \\
& x**n*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m* \\
& **3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m \\
& *n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) \\
& + 4*A*a**2*d*m**3*x*x**n*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n** \\
& 2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m** \\
& 2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3
\end{aligned}$$

$$\begin{aligned}
& + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + \\
& 35*n**2 + 10*n + 1) + 52*A*a*b*c*m**2*n**2*x*x**n*(e*x)**m/(m**5 + 10*m**4*n \\
& n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n \\
& **2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + \\
& 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 54*A*a*b*c*m**2*n*x*x**n*(e \\
& *x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50 \\
& *m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + \\
& 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 12*A \\
& *a*b*c*m**2*x*x**n*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40* \\
& m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24* \\
& m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n* \\
& **2 + 10*n + 1) + 48*A*a*b*c*m*n**3*x*x**n*(e*x)**m/(m**5 + 10*m**4*n + 5*m \\
& **4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60 \\
& *m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24 \\
& *n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 104*A*a*b*c*m*n**2*x*x**n*(e*x)**m/ \\
& (m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n \\
& **3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m \\
& n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 54*A*a*b*c* \\
& m*n*x*x**n*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + \\
& 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + \\
& 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10* \\
& n + 1) + 8*A*a*b*c*m*x*x**n*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n \\
& **2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m \\
& **2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n** \\
& 3 + 35*n**2 + 10*n + 1) + 48*A*a*b*c*n**3*x*x**n*(e*x)**m/(m**5 + 10*m**4*n \\
& + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n* \\
& **2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5 \\
& *m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 52*A*a*b*c*n**2*x*x**n*(e*x) \\
& **m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m* \\
& **2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 10 \\
& 5*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 18*A*a* \\
& b*c*n*x*x**n*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n \\
& + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 \\
& + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 1 \\
& 0*n + 1) + 2*A*a*b*c*x*x**n*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n \\
& **2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m \\
& **2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n** \\
& 3 + 35*n**2 + 10*n + 1) + 2*A*a*b*d*m**4*x*x**n*(2*n)*(e*x)**m/(m**5 + 10*m** \\
& 4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2 \\
& *n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n \\
& + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 16*A*a*b*d*m**3*n*x*x**n*(2 \\
& *n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m** \\
& 3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m \\
& n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) \\
& + 8*A*a*b*d*m**3*x*x**n*(2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n
\end{aligned}$$

$$\begin{aligned}
& **2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m \\
& **2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n** \\
& 3 + 35*n**2 + 10*n + 1) + 38*A*a*b*d*m**2*n**2*x*x**(2*n)*(e*x)**m/(m**5 + \\
& 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 10 \\
& 5*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 4 \\
& 0*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 48*A*a*b*d*m**2*n*x \\
& *x**(2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + \\
& 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + \\
& 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n \\
& + 1) + 12*A*a*b*d*m**2*x*x**(2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35 \\
& *m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n \\
& + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + \\
& 50*n**3 + 35*n**2 + 10*n + 1) + 24*A*a*b*d*m*n**3*x*x**(2*n)*(e*x)**m/(m** \\
& 5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 \\
& + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 \\
& + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 76*A*a*b*d*m*n* \\
& *2*x*x**(2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3* \\
& n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n** \\
& 4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + \\
& 10*n + 1) + 48*A*a*b*d*m*n*x*x**(2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + \\
& 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m** \\
& 2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n** \\
& 4 + 50*n**3 + 35*n**2 + 10*n + 1) + 8*A*a*b*d*m*x*x**(2*n)*(e*x)**m/(m**5 + \\
& 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 1 \\
& 05*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + \\
& 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 24*A*a*b*d*n**3*x* \\
& x**(2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 1 \\
& 0*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 1 \\
& 00*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n \\
& + 1) + 38*A*a*b*d*n**2*x*x**(2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35* \\
& m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n \\
& + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + \\
& 50*n**3 + 35*n**2 + 10*n + 1) + 16*A*a*b*d*n*x*x**(2*n)*(e*x)**m/(m**5 + 10 \\
& *m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105* \\
& m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40* \\
& m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 2*A*a*b*d*x*x**(2*n)* \\
& (e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + \\
& 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 \\
& + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + A* \\
& b**2*c*m**4*x*x**(2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + \\
& 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + \\
& 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 3 \\
& 5*n**2 + 10*n + 1) + 8*A*b**2*c*m**3*n*x*x**(2*n)*(e*x)**m/(m**5 + 10*m**4*n \\
& + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n \\
& **2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n +
\end{aligned}$$

$$\begin{aligned}
& 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + 10n + 1) + 4A*b^{**2}*c*m^{**3}*x*x^{**}(2n)* \\
& (e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + \\
& 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} \\
& + 105*m*n^{**2} + 40*m*n + 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + 10n + 1) + 19 \\
& *A*b^{**2}*c*m^{**2}*n^{**2}*x*x^{**}(2n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3} \\
& *n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 1 \\
& 0*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5m + 24n^{**4} + 50* \\
& n^{**3} + 35n^{**2} + 10n + 1) + 24*A*b^{**2}*c*m^{**2}*n*x*x^{**}(2n)*(e*x)^{**m}/(m^{**5} + \\
& 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 1 \\
& 05*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + \\
& 40*m*n + 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + 10n + 1) + 6*A*b^{**2}*c*m^{**2}*x* \\
& x^{**}(2n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 1 \\
& 0*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 1 \\
& 00*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + 10n \\
& + 1) + 12*A*b^{**2}*c*m*n^{**3}*x*x^{**}(2n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + \\
& 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2} \\
& *n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5m + 24n^{**4} \\
& + 50n^{**3} + 35n^{**2} + 10n + 1) + 38*A*b^{**2}*c*m*n^{**2}*x*x^{**}(2n)*(e*x)^{**m}/(\\
& m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n* \\
& *3 + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n \\
& **2 + 40*m*n + 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + 10n + 1) + 24*A*b^{**2}*c* \\
& m*n*x*x^{**}(2n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3} \\
& *n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n* \\
& *4 + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + \\
& 10n + 1) + 4*A*b^{**2}*c*m*x*x^{**}(2n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + \\
& 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2} \\
& *n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5m + 24n^{**4} \\
& + 50n^{**3} + 35n^{**2} + 10n + 1) + 12*A*b^{**2}*c*n^{**3}*x*x^{**}(2n)*(e*x)^{**m}/(m \\
& *5 + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} \\
& + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{** \\
& 2 + 40*m*n + 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + 10n + 1) + 19*A*b^{**2}*c*n* \\
& *2*x*x^{**}(2n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3} \\
& *n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{** \\
& 4 + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + \\
& 10n + 1) + 8*A*b^{**2}*c*n*x*x^{**}(2n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 3 \\
& 5*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}* \\
& n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5m + 24n^{**4} \\
& + 50n^{**3} + 35n^{**2} + 10n + 1) + A*b^{**2}*c*x*x^{**}(2n)*(e*x)^{**m}/(m^{**5} + 10*m \\
& **4*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m* \\
& *2*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m* \\
& n + 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + 10n + 1) + A*b^{**2}*d*m^{**4}*x*x^{**}(3n \\
&)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} \\
& + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n* \\
& *3 + 105*m*n^{**2} + 40*m*n + 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + 10n + 1) + \\
& 7*A*b^{**2}*d*m^{**3}*n*x*x^{**}(3n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*
\end{aligned}$$

$$\begin{aligned}
& n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10* \\
& m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n* \\
& *3 + 35*n^{**2} + 10*n + 1) + 4*A*b^{**2}*d*m^{**3}*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**5} + 10*m \\
& **4*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m* \\
& *2*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m* \\
& n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 14*A*b^{**2}*d*m^{**2}*n^{**2}*x \\
& *x^{**}(3*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + \\
& 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + \\
& 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n \\
& + 1) + 21*A*b^{**2}*d*m^{**2}*n*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + \\
& 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{** \\
& 2*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{** \\
& 4 + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 6*A*b^{**2}*d*m^{**2}*x*x^{**}(3*n)*(e*x)^{**m}/(m* \\
& *5 + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} \\
& + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{** \\
& 2 + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 8*A*b^{**2}*d*m*n \\
& **3*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3} \\
& *n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n* \\
& *4 + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + \\
& 10*n + 1) + 28*A*b^{**2}*d*m*n^{**2}*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m \\
& **4 + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 6 \\
& 0*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 2 \\
& 4*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 21*A*b^{**2}*d*m*n*x*x^{**}(3*n)*(e*x)^{** \\
& m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2} \\
& *n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105* \\
& m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 4*A*b^{**2}* \\
& d*m*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3} \\
& *n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n* \\
& *4 + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + \\
& 10*n + 1) + 8*A*b^{**2}*d*n^{**3}*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} \\
& + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m \\
& **2*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n \\
& **4 + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 14*A*b^{**2}*d*n^{**2}*x*x^{**}(3*n)*(e*x)^{**m}/ \\
& (m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n \\
& **3 + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m* \\
& n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 7*A*b^{**2}*d* \\
& n*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n \\
& + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} \\
& + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 1 \\
& 0*n + 1) + A*b^{**2}*d*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{** \\
& 3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 1 \\
& 0*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50* \\
& n^{**3} + 35*n^{**2} + 10*n + 1) + B*a^{**2}*c*m^{**4}*x*x^{**n}*(e*x)^{**m}/(m^{**5} + 10*m^{**4}* \\
& n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n \\
& **2 + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n +
\end{aligned}$$

$$\begin{aligned}
& 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + 10n + 1) + 9Ba^{**2}c^{**3}n^{**}x^{**}x^{**}n^{**}(e \\
& *x)^{**}/(m^{**5} + 10m^{**4}n + 5m^{**4} + 35m^{**3}n^{**2} + 40m^{**3}n + 10m^{**3} + 50 \\
& *m^{**2}n^{**3} + 105m^{**2}n^{**2} + 60m^{**2}n + 10m^{**2} + 24m^{**}n^{**4} + 100m^{**}n^{**3} + \\
& 105m^{**}n^{**2} + 40m^{**}n + 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + 10n + 1) + 4B^* \\
& a^{**2}c^{**3}x^{**}x^{**}n^{**}(e*x)^{**}/(m^{**5} + 10m^{**4}n + 5m^{**4} + 35m^{**3}n^{**2} + 40* \\
& m^{**3}n + 10m^{**3} + 50m^{**2}n^{**3} + 105m^{**2}n^{**2} + 60m^{**2}n + 10m^{**2} + 24* \\
& m^{**}n^{**4} + 100m^{**}n^{**3} + 105m^{**}n^{**2} + 40m^{**}n + 5m + 24n^{**4} + 50n^{**3} + 35n^{**} \\
& *2 + 10n + 1) + 26B^*a^{**2}c^{**2}n^{**2}x^{**}x^{**}n^{**}(e*x)^{**}/(m^{**5} + 10m^{**4}n + \\
& 5m^{**4} + 35m^{**3}n^{**2} + 40m^{**3}n + 10m^{**3} + 50m^{**2}n^{**3} + 105m^{**2}n^{**2} \\
& + 60m^{**2}n + 10m^{**2} + 24m^{**}n^{**4} + 100m^{**}n^{**3} + 105m^{**}n^{**2} + 40m^{**}n + 5m \\
& + 24n^{**4} + 50n^{**3} + 35n^{**2} + 10n + 1) + 27B^*a^{**2}c^{**2}n^{**}x^{**}x^{**}n^{**}(e*x) \\
& ^{**}/(m^{**5} + 10m^{**4}n + 5m^{**4} + 35m^{**3}n^{**2} + 40m^{**3}n + 10m^{**3} + 50m^{**} \\
& *2n^{**3} + 105m^{**2}n^{**2} + 60m^{**2}n + 10m^{**2} + 24m^{**}n^{**4} + 100m^{**}n^{**3} + 10 \\
& 5m^{**}n^{**2} + 40m^{**}n + 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + 10n + 1) + 6B^*a^{**} \\
& 2c^{**2}x^{**}x^{**}n^{**}(e*x)^{**}/(m^{**5} + 10m^{**4}n + 5m^{**4} + 35m^{**3}n^{**2} + 40m^{**} \\
& 3n + 10m^{**3} + 50m^{**2}n^{**3} + 105m^{**2}n^{**2} + 60m^{**2}n + 10m^{**2} + 24m^{**}n^{**} \\
& **4 + 100m^{**}n^{**3} + 105m^{**}n^{**2} + 40m^{**}n + 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} \\
& + 10n + 1) + 24B^*a^{**2}c^{**m}n^{**3}x^{**}x^{**}n^{**}(e*x)^{**}/(m^{**5} + 10m^{**4}n + 5m^{**4} \\
& + 35m^{**3}n^{**2} + 40m^{**3}n + 10m^{**3} + 50m^{**2}n^{**3} + 105m^{**2}n^{**2} + 60m^{**} \\
& **2n + 10m^{**2} + 24m^{**}n^{**4} + 100m^{**}n^{**3} + 105m^{**}n^{**2} + 40m^{**}n + 5m + 24n^{**} \\
& **4 + 50n^{**3} + 35n^{**2} + 10n + 1) + 52B^*a^{**2}c^{**m}n^{**2}x^{**}x^{**}n^{**}(e*x)^{**}/(m \\
& **5 + 10m^{**4}n + 5m^{**4} + 35m^{**3}n^{**2} + 40m^{**3}n + 10m^{**3} + 50m^{**2}n^{**} \\
& 3 + 105m^{**2}n^{**2} + 60m^{**2}n + 10m^{**2} + 24m^{**}n^{**4} + 100m^{**}n^{**3} + 105m^{**}n^{**} \\
& *2 + 40m^{**}n + 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + 10n + 1) + 27B^*a^{**2}c^{**m} \\
& n^{**}x^{**}x^{**}n^{**}(e*x)^{**}/(m^{**5} + 10m^{**4}n + 5m^{**4} + 35m^{**3}n^{**2} + 40m^{**3}n + \\
& 10m^{**3} + 50m^{**2}n^{**3} + 105m^{**2}n^{**2} + 60m^{**2}n + 10m^{**2} + 24m^{**}n^{**4} + \\
& 100m^{**}n^{**3} + 105m^{**}n^{**2} + 40m^{**}n + 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + 10n \\
& + 1) + 4B^*a^{**2}c^{**m}x^{**}x^{**}n^{**}(e*x)^{**}/(m^{**5} + 10m^{**4}n + 5m^{**4} + 35m^{**3}n \\
& **2 + 40m^{**3}n + 10m^{**3} + 50m^{**2}n^{**3} + 105m^{**2}n^{**2} + 60m^{**2}n + 10m^{**} \\
& **2 + 24m^{**}n^{**4} + 100m^{**}n^{**3} + 105m^{**}n^{**2} + 40m^{**}n + 5m + 24n^{**4} + 50n^{**} \\
& 3 + 35n^{**2} + 10n + 1) + 24B^*a^{**2}c^{**n}n^{**3}x^{**}x^{**}n^{**}(e*x)^{**}/(m^{**5} + 10m^{**4}n \\
& + 5m^{**4} + 35m^{**3}n^{**2} + 40m^{**3}n + 10m^{**3} + 50m^{**2}n^{**3} + 105m^{**2}n^{**} \\
& **2 + 60m^{**2}n + 10m^{**2} + 24m^{**}n^{**4} + 100m^{**}n^{**3} + 105m^{**}n^{**2} + 40m^{**}n + \\
& 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + 10n + 1) + 26B^*a^{**2}c^{**n}n^{**2}x^{**}x^{**}n^{**}(e \\
& x)^{**}/(m^{**5} + 10m^{**4}n + 5m^{**4} + 35m^{**3}n^{**2} + 40m^{**3}n + 10m^{**3} + 50* \\
& m^{**2}n^{**3} + 105m^{**2}n^{**2} + 60m^{**2}n + 10m^{**2} + 24m^{**}n^{**4} + 100m^{**}n^{**3} + \\
& 105m^{**}n^{**2} + 40m^{**}n + 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + 10n + 1) + 9B^*a \\
& **2c^{**n}x^{**}x^{**}n^{**}(e*x)^{**}/(m^{**5} + 10m^{**4}n + 5m^{**4} + 35m^{**3}n^{**2} + 40m^{**3} \\
& n + 10m^{**3} + 50m^{**2}n^{**3} + 105m^{**2}n^{**2} + 60m^{**2}n + 10m^{**2} + 24m^{**}n^{**} \\
& *4 + 100m^{**}n^{**3} + 105m^{**}n^{**2} + 40m^{**}n + 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + \\
& 10n + 1) + B^*a^{**2}c^{**x}x^{**}n^{**}(e*x)^{**}/(m^{**5} + 10m^{**4}n + 5m^{**4} + 35m^{**3}n \\
& n^{**2} + 40m^{**3}n + 10m^{**3} + 50m^{**2}n^{**3} + 105m^{**2}n^{**2} + 60m^{**2}n + 10* \\
& m^{**2} + 24m^{**}n^{**4} + 100m^{**}n^{**3} + 105m^{**}n^{**2} + 40m^{**}n + 5m + 24n^{**4} + 50n^{**} \\
& *3 + 35n^{**2} + 10n + 1) + B^*a^{**2}d^{**m}n^{**4}x^{**}x^{**}(2n)^{**}(e*x)^{**}/(m^{**5} + 10m^{**} \\
& 4n + 5m^{**4} + 35m^{**3}n^{**2} + 40m^{**3}n + 10m^{**3} + 50m^{**2}n^{**3} + 105m^{**2}
\end{aligned}$$

$$\begin{aligned}
& n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n \\
& + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 8*B*a^{**2}*d*m^{**3}*n*x*x^{**}(2 \\
& *n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{** \\
& 3 + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m* \\
& n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) \\
& + 4*B*a^{**2}*d*m^{**3}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}* \\
& n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10* \\
& m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{** \\
& *3 + 35*n^{**2} + 10*n + 1) + 19*B*a^{**2}*d*m^{**2}*n^{**2}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**5} \\
& + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + \\
& 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + \\
& 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 24*B*a^{**2}*d*m^{**2}* \\
& n*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n \\
& + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} \\
& + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 1 \\
& 0*n + 1) + 6*B*a^{**2}*d*m^{**2}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + \\
& 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{** \\
& 2*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{** \\
& 4 + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 12*B*a^{**2}*d*m*n^{**3}*x*x^{**}(2*n)*(e*x)^{**m}/ \\
& (m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n \\
& **3 + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m* \\
& n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 38*B*a^{**2}*d \\
& *m*n^{**2}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40* \\
& m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24* \\
& m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n* \\
& *2 + 10*n + 1) + 24*B*a^{**2}*d*m*n*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5* \\
& m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + \\
& 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + \\
& 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 4*B*a^{**2}*d*m*x*x^{**}(2*n)*(e*x)^{**m}/ \\
& (m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n \\
& **3 + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m* \\
& n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 12*B*a^{**2}*d \\
& *n^{**3}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m* \\
& *3*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m* \\
& n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} \\
& + 10*n + 1) + 19*B*a^{**2}*d*n^{**2}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m \\
& **4 + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 6 \\
& 0*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 2 \\
& 4*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 8*B*a^{**2}*d*n*x*x^{**}(2*n)*(e*x)^{**m}/(\\
& m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n* \\
& *3 + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n \\
& **2 + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + B*a^{**2}*d*x*x \\
& ***(2*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10 \\
& *m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 10 \\
& 0*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n +
\end{aligned}$$

1) + 2*B*a*b*c*m**4*x*x**(2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m*
*3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n +
10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50
*n**3 + 35*n**2 + 10*n + 1) + 16*B*a*b*c*m**3*n*x*x**(2*n)*(e*x)**m/(m**5 +
10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 1
05*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 +
40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 8*B*a*b*c*m**3*x*x
(2*n)*(e*x)m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10
*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 10
0*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n +
1) + 38*B*a*b*c*m**2*n**2*x*x**(2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 +
35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**
2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**
4 + 50*n**3 + 35*n**2 + 10*n + 1) + 48*B*a*b*c*m**2*n*x*x**(2*n)*(e*x)**m/(
m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**
*3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n
2 + 40*m*n + 5*m + 24*n4 + 50*n**3 + 35*n**2 + 10*n + 1) + 12*B*a*b*c*m
2*x*x(2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3
*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n
4 + 100*m*n3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 +
10*n + 1) + 24*B*a*b*c*m*n**3*x*x**(2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**
*4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60
*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24
*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 76*B*a*b*c*m*n**2*x*x**(2*n)*(e*x)*
m/(m5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**
2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105
*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 48*B*a*b
*c*m*n*x*x**(2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m
3*n + 10*m3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m
*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**
2 + 10*n + 1) + 8*B*a*b*c*m*x*x**(2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4
+ 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m*
*2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n*
4 + 50*n3 + 35*n**2 + 10*n + 1) + 24*B*a*b*c*n**3*x*x**(2*n)*(e*x)**m/(m
5 + 10*m4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**
3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n*
2 + 40*m*n + 5*m + 24*n4 + 50*n**3 + 35*n**2 + 10*n + 1) + 38*B*a*b*c*n*
2*x*x(2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*
n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**
4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 +
10*n + 1) + 16*B*a*b*c*n*x*x**(2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 3
5*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*
n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4
+ 50*n**3 + 35*n**2 + 10*n + 1) + 2*B*a*b*c*x*x**(2*n)*(e*x)**m/(m**5 + 10*
m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m

$$\begin{aligned}
& **2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m \\
& *n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 2*B*a*b*d*m**4*x*x**(3 \\
& *n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m** \\
& 3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m* \\
& n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) \\
& + 14*B*a*b*d*m**3*n*x*x**(3*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m** \\
& 3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 1 \\
& 0*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50* \\
& n**3 + 35*n**2 + 10*n + 1) + 8*B*a*b*d*m**3*x*x**(3*n)*(e*x)**m/(m**5 + 10* \\
& m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m \\
& **2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m \\
& *n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 28*B*a*b*d*m**2*n**2*x \\
& *x**(3*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + \\
& 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + \\
& 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n \\
& + 1) + 42*B*a*b*d*m**2*n*x*x**(3*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + \\
& 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2 \\
& *n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 \\
& + 50*n**3 + 35*n**2 + 10*n + 1) + 12*B*a*b*d*m**2*x*x**(3*n)*(e*x)**m/(m** \\
& 5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 \\
& + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 \\
& + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 16*B*a*b*d*m*n* \\
& *3*x*x**(3*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3* \\
& n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n** \\
& 4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + \\
& 10*n + 1) + 56*B*a*b*d*m*n**2*x*x**(3*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m** \\
& 4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60* \\
& m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24* \\
& n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 42*B*a*b*d*m*n*x*x**(3*n)*(e*x)**m/(\\
& m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n* \\
& *3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n \\
& **2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 8*B*a*b*d*m* \\
& x*x**(3*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + \\
& 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + \\
& 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10* \\
& n + 1) + 16*B*a*b*d*n**3*x*x**(3*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 3 \\
& 5*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2* \\
& n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 \\
& + 50*n**3 + 35*n**2 + 10*n + 1) + 28*B*a*b*d*n**2*x*x**(3*n)*(e*x)**m/(m**5 \\
& + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + \\
& 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 \\
& + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 14*B*a*b*d*n*x*x \\
& *(3*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10 \\
& *m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 10 \\
& 0*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n +
\end{aligned}$$

$$\begin{aligned}
& 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} \\
& + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + B*b^{**2}*c*x*x^{**3} \\
& *n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} \\
& + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m* \\
& n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) \\
& + B*b^{**2}*d*m^{**4}*x*x^{**4}*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n* \\
& *2 + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m* \\
& *2 + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} \\
& + 35*n^{**2} + 10*n + 1) + 6*B*b^{**2}*d*m^{**3}*n*x*x^{**4}*n)*(e*x)^{**m}/(m^{**5} + 10*m* \\
& **4*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m* \\
& *2*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m* \\
& n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 4*B*b^{**2}*d*m^{**3}*x*x^{**4} \\
& *n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} \\
& + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m* \\
& n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) \\
& + 11*B*b^{**2}*d*m^{**2}*n^{**2}*x*x^{**4}*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35 \\
& *m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n \\
& + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + \\
& 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 18*B*b^{**2}*d*m^{**2}*n*x*x^{**4}*n)*(e*x)^{**m}/(m* \\
& *5 + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} \\
& + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} \\
& + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 6*B*b^{**2}*d*m^{**2} \\
& *x*x^{**4}*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n \\
& + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} \\
& + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 1 \\
& 0*n + 1) + 6*B*b^{**2}*d*m*n^{**3}*x*x^{**4}*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} \\
& + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m \\
& **2*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n \\
& **4 + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 22*B*b^{**2}*d*m*n^{**2}*x*x^{**4}*n)*(e*x)^{** \\
& m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2} \\
& *n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105* \\
& m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 18*B*b^{**2} \\
& *d*m*n*x*x^{**4}*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m \\
& **3*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m \\
& *n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} \\
& + 10*n + 1) + 4*B*b^{**2}*d*m*x*x^{**4}*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} \\
& + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m \\
& **2*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n \\
& **4 + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 6*B*b^{**2}*d*n^{**3}*x*x^{**4}*n)*(e*x)^{**m}/(\\
& m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n* \\
& *3 + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n \\
& **2 + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 11*B*b^{**2}*d* \\
& n^{**2}*x*x^{**4}*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3} \\
& *n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n \\
& **4 + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2}
\end{aligned}$$


```

+ 10*n + 1) + 6*B*b**2*d*n*x*x**(4*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 +
  35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**
2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**
4 + 50*n**3 + 35*n**2 + 10*n + 1) + B*b**2*d*x*x**(4*n)*(e*x)**m/(m**5 + 10
*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*
m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*
m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1), True))

```

Maxima [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 332 vs. $2(160) = 320$.

Time = 0.24 (sec) , antiderivative size = 332, normalized size of antiderivative = 2.08

$$\begin{aligned}
 & \int (ex)^m (a + bx^n)^2 (A + Bx^n) (c + dx^n) dx \\
 &= \frac{Bb^2de^mxe^{(m\log(x)+4n\log(x))}}{m+4n+1} + \frac{Bb^2ce^mxe^{(m\log(x)+3n\log(x))}}{m+3n+1} + \frac{2Babde^mxe^{(m\log(x)+3n\log(x))}}{m+3n+1} \\
 &+ \frac{Ab^2de^mxe^{(m\log(x)+3n\log(x))}}{m+3n+1} + \frac{2Babce^mxe^{(m\log(x)+2n\log(x))}}{m+2n+1} + \frac{Ab^2ce^mxe^{(m\log(x)+2n\log(x))}}{m+2n+1} \\
 &+ \frac{Ba^2de^mxe^{(m\log(x)+2n\log(x))}}{m+2n+1} + \frac{2Aabde^mxe^{(m\log(x)+2n\log(x))}}{m+2n+1} + \frac{Ba^2ce^mxe^{(m\log(x)+n\log(x))}}{m+n+1} \\
 &+ \frac{2Aabce^mxe^{(m\log(x)+n\log(x))}}{m+n+1} + \frac{Aa^2de^mxe^{(m\log(x)+n\log(x))}}{m+n+1} + \frac{(ex)^{m+1}Aa^2c}{e(m+1)}
 \end{aligned}$$

```
[In] integrate((e*x)^m*(a+b*x^n)^2*(A+B*x^n)*(c+d*x^n),x, algorithm="maxima")
```

```
[Out] B*b^2*d*e^m*x*e^(m*log(x) + 4*n*log(x))/(m + 4*n + 1) + B*b^2*c*e^m*x*e^(m*
log(x) + 3*n*log(x))/(m + 3*n + 1) + 2*B*a*b*d*e^m*x*e^(m*log(x) + 3*n*log(
x))/(m + 3*n + 1) + A*b^2*d*e^m*x*e^(m*log(x) + 3*n*log(x))/(m + 3*n + 1) +
  2*B*a*b*c*e^m*x*e^(m*log(x) + 2*n*log(x))/(m + 2*n + 1) + A*b^2*c*e^m*x*e^
(m*log(x) + 2*n*log(x))/(m + 2*n + 1) + B*a^2*d*e^m*x*e^(m*log(x) + 2*n*log
(x))/(m + 2*n + 1) + 2*A*a*b*d*e^m*x*e^(m*log(x) + 2*n*log(x))/(m + 2*n + 1
) + B*a^2*c*e^m*x*e^(m*log(x) + n*log(x))/(m + n + 1) + 2*A*a*b*c*e^m*x*e^(
m*log(x) + n*log(x))/(m + n + 1) + A*a^2*d*e^m*x*e^(m*log(x) + n*log(x))/(m
+ n + 1) + (e*x)^(m + 1)*A*a^2*c/(e*(m + 1))
```

Giac [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 11834 vs. 2(160) = 320.

Time = 0.38 (sec) , antiderivative size = 11834, normalized size of antiderivative = 73.96

$$\int (ex)^m (a + bx^n)^2 (A + Bx^n) (c + dx^n) dx = \text{Too large to display}$$

[In] integrate((e*x)^m*(a+b*x^n)^2*(A+B*x^n)*(c+d*x^n),x, algorithm="giac")

[Out] (B*b^2*d*m^4*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 6*B*b^2*d*m^3*n*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 11*B*b^2*d*m^2*n^2*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 6*B*b^2*d*m*n^3*x*x^(4*n)*e^(m*log(e) + m*log(x)) + B*b^2*c*m^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 2*B*a*b*d*m^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + A*b^2*d*m^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + B*b^2*d*m^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 7*B*b^2*c*m^3*n*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 14*B*a*b*d*m^3*n*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 7*A*b^2*d*m^3*n*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 6*B*b^2*d*m^3*n*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 14*B*b^2*c*m^2*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 28*B*a*b*d*m^2*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 14*A*b^2*d*m^2*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 11*B*b^2*d*m^2*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 8*B*b^2*c*m*n^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 16*B*a*b*d*m*n^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 8*A*b^2*d*m*n^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 6*B*b^2*d*m*n^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 2*B*a*b*c*m^4*x*x^(2*n)*e^(m*log(e) + m*log(x)) + A*b^2*c*m^4*x*x^(2*n)*e^(m*log(e) + m*log(x)) + B*b^2*c*m^4*x*x^(2*n)*e^(m*log(e) + m*log(x)) + B*a^2*d*m^4*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 2*A*a*b*d*m^4*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 2*B*a*b*d*m^4*x*x^(2*n)*e^(m*log(e) + m*log(x)) + A*b^2*d*m^4*x*x^(2*n)*e^(m*log(e) + m*log(x)) + B*b^2*d*m^4*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 16*B*a*b*c*m^3*n*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 8*A*b^2*c*m^3*n*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 7*B*b^2*c*m^3*n*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 8*B*a^2*d*m^3*n*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 16*A*a*b*d*m^3*n*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 14*B*a*b*d*m^3*n*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 7*A*b^2*d*m^3*n*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 6*B*b^2*d*m^3*n*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 38*B*a*b*c*m^2*n^2*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 19*A*b^2*c*m^2*n^2*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 14*B*b^2*c*m^2*n^2*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 19*B*a^2*d*m^2*n^2*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 38*A*a*b*d*m^2*n^2*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 28*B*a*b*d*m^2*n^2*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 14*A*b^2*d*m^2*n^2*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 11*B*b^2*d*m^2*n^2*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 24*B*a*b*c*m*n^3*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 12*A*b^2*c*m*n^3*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 8*B*b^2*c*m*n^3*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 12*B*a^2*d*m*n^3*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 24*A*a*b*d*m*n^3*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 16*B*a*b*d*m*n^3*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 8*A*b^2*d*m*n^3*x*x

$$\begin{aligned}
& ^{(2*n)}e^{(m*\log(e) + m*\log(x))} + 6*B*b^2*d*m^n^3*x*x^{(2*n)}e^{(m*\log(e) + m* \\
& \log(x))} + B*a^2*c*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2*A*a*b*c*m^4*x*x^n*e \\
& ^{(m*\log(e) + m*\log(x))} + 2*B*a*b*c*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + A*b^ \\
& 2*c*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + B*b^2*c*m^4*x*x^n*e^{(m*\log(e) + m* \\
& \log(x))} + A*a^2*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + B*a^2*d*m^4*x*x^n*e^{(m \\
& *log(e) + m*log(x))} + 2*A*a*b*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2*B*a*b \\
& *d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + A*b^2*d*m^4*x*x^n*e^{(m*\log(e) + m*lo \\
& g(x))} + B*b^2*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 9*B*a^2*c*m^3*n*x*x^n*e \\
& ^{(m*\log(e) + m*\log(x))} + 18*A*a*b*c*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1 \\
& 6*B*a*b*c*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 8*A*b^2*c*m^3*n*x*x^n*e^{(m* \\
& \log(e) + m*\log(x))} + 7*B*b^2*c*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 9*A*a^ \\
& 2*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 8*B*a^2*d*m^3*n*x*x^n*e^{(m*\log(e) \\
& + m*\log(x))} + 16*A*a*b*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 14*B*a*b*d* \\
& m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 7*A*b^2*d*m^3*n*x*x^n*e^{(m*\log(e) + m \\
& *log(x))} + 6*B*b^2*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 26*B*a^2*c*m^2*n \\
& ^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 52*A*a*b*c*m^2*n^2*x*x^n*e^{(m*\log(e) + m \\
& *log(x))} + 38*B*a*b*c*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 19*A*b^2*c*m^ \\
& 2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 14*B*b^2*c*m^2*n^2*x*x^n*e^{(m*\log(e) \\
& + m*\log(x))} + 26*A*a^2*d*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 19*B*a^2*d \\
& *m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 38*A*a*b*d*m^2*n^2*x*x^n*e^{(m*\log(\\
& e) + m*\log(x))} + 28*B*a*b*d*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 14*A*b^ \\
& 2*d*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 11*B*b^2*d*m^2*n^2*x*x^n*e^{(m* \\
& \log(e) + m*\log(x))} + 24*B*a^2*c*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 48*A*a \\
& *b*c*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 24*B*a*b*c*m^n^3*x*x^n*e^{(m*\log(\\
& e) + m*\log(x))} + 12*A*b^2*c*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 8*B*b^2*c \\
& *m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 24*A*a^2*d*m^n^3*x*x^n*e^{(m*\log(e) + \\
& m*\log(x))} + 12*B*a^2*d*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 24*A*a*b*d*m \\
& n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 16*B*a*b*d*m^n^3*x*x^n*e^{(m*\log(e) + m* \\
& \log(x))} + 8*A*b^2*d*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 6*B*b^2*d*m^n^3*x \\
& *x^n*e^{(m*\log(e) + m*\log(x))} + A*a^2*c*m^4*x*e^{(m*\log(e) + m*\log(x))} + B*a^ \\
& 2*c*m^4*x*e^{(m*\log(e) + m*\log(x))} + 2*A*a*b*c*m^4*x*e^{(m*\log(e) + m*\log(x))} \\
& + 2*B*a*b*c*m^4*x*e^{(m*\log(e) + m*\log(x))} + A*b^2*c*m^4*x*e^{(m*\log(e) + m* \\
& \log(x))} + B*b^2*c*m^4*x*e^{(m*\log(e) + m*\log(x))} + A*a^2*d*m^4*x*e^{(m*\log(e) \\
& + m*\log(x))} + B*a^2*d*m^4*x*e^{(m*\log(e) + m*\log(x))} + 2*A*a*b*d*m^4*x*e^{(m \\
& *log(e) + m*log(x))} + 2*B*a*b*d*m^4*x*e^{(m*\log(e) + m*\log(x))} + A*b^2*d*m^4 \\
& *x*e^{(m*\log(e) + m*\log(x))} + B*b^2*d*m^4*x*e^{(m*\log(e) + m*\log(x))} + 10*A*a \\
& ^2*c*m^3*n*x*e^{(m*\log(e) + m*\log(x))} + 9*B*a^2*c*m^3*n*x*e^{(m*\log(e) + m*lo \\
& g(x))} + 18*A*a*b*c*m^3*n*x*e^{(m*\log(e) + m*\log(x))} + 16*B*a*b*c*m^3*n*x*e^{(\\
& m*\log(e) + m*\log(x))} + 8*A*b^2*c*m^3*n*x*e^{(m*\log(e) + m*\log(x))} + 7*B*b^2* \\
& c*m^3*n*x*e^{(m*\log(e) + m*\log(x))} + 9*A*a^2*d*m^3*n*x*e^{(m*\log(e) + m*\log(x) \\
&)} + 8*B*a^2*d*m^3*n*x*e^{(m*\log(e) + m*\log(x))} + 16*A*a*b*d*m^3*n*x*e^{(m*lo \\
& g(e) + m*\log(x))} + 14*B*a*b*d*m^3*n*x*e^{(m*\log(e) + m*\log(x))} + 7*A*b^2*d*m \\
& ^3*n*x*e^{(m*\log(e) + m*\log(x))} + 6*B*b^2*d*m^3*n*x*e^{(m*\log(e) + m*\log(x))} \\
& + 35*A*a^2*c*m^2*n^2*x*e^{(m*\log(e) + m*\log(x))} + 26*B*a^2*c*m^2*n^2*x*e^{(m* \\
& \log(e) + m*\log(x))} + 52*A*a*b*c*m^2*n^2*x*e^{(m*\log(e) + m*\log(x))} + 38*B*a*
\end{aligned}$$

$$\begin{aligned}
& b^2 c^2 m^{2n} x^2 e^{(m \log(e) + m \log(x))} + 19 A^2 b^2 c^2 m^{2n} x^2 e^{(m \log(e) + m \log(x))} + 14 B^2 b^2 c^2 m^{2n} x^2 e^{(m \log(e) + m \log(x))} + 26 A^2 a^2 d^2 m^{2n} x^2 e^{(m \log(e) + m \log(x))} + 19 B^2 a^2 d^2 m^{2n} x^2 e^{(m \log(e) + m \log(x))} \\
& + 38 A^2 a^2 b^2 d^2 m^{2n} x^2 e^{(m \log(e) + m \log(x))} + 28 B^2 a^2 b^2 d^2 m^{2n} x^2 e^{(m \log(e) + m \log(x))} + 14 A^2 b^2 d^2 m^{2n} x^2 e^{(m \log(e) + m \log(x))} + 11 B^2 b^2 d^2 m^{2n} x^2 e^{(m \log(e) + m \log(x))} + 50 A^2 a^2 c^2 m^{2n} x^3 e^{(m \log(e) + m \log(x))} + 24 B^2 a^2 c^2 m^{2n} x^3 e^{(m \log(e) + m \log(x))} + 48 A^2 a^2 b^2 c^2 m^{2n} x^3 e^{(m \log(e) + m \log(x))} + 24 B^2 a^2 b^2 c^2 m^{2n} x^3 e^{(m \log(e) + m \log(x))} + 12 A^2 b^2 c^2 m^{2n} x^3 e^{(m \log(e) + m \log(x))} + 8 B^2 b^2 c^2 m^{2n} x^3 e^{(m \log(e) + m \log(x))} + 24 A^2 a^2 d^2 m^{2n} x^3 e^{(m \log(e) + m \log(x))} + 12 B^2 a^2 d^2 m^{2n} x^3 e^{(m \log(e) + m \log(x))} + 24 A^2 a^2 b^2 d^2 m^{2n} x^3 e^{(m \log(e) + m \log(x))} + 16 B^2 a^2 b^2 d^2 m^{2n} x^3 e^{(m \log(e) + m \log(x))} + 8 A^2 b^2 d^2 m^{2n} x^3 e^{(m \log(e) + m \log(x))} + 6 B^2 b^2 d^2 m^{2n} x^3 e^{(m \log(e) + m \log(x))} + 24 A^2 a^2 c^2 n^4 x^4 e^{(m \log(e) + m \log(x))} + 4 B^2 b^2 d^2 m^3 x^4 x^{(4n)} e^{(m \log(e) + m \log(x))} + 18 B^2 b^2 d^2 m^2 n^2 x^4 x^{(4n)} e^{(m \log(e) + m \log(x))} + 22 B^2 b^2 d^2 m^2 n^2 x^4 x^{(4n)} e^{(m \log(e) + m \log(x))} + 6 B^2 b^2 d^2 n^3 x^4 x^{(4n)} e^{(m \log(e) + m \log(x))} + 4 B^2 b^2 c^2 m^3 x^4 x^{(3n)} e^{(m \log(e) + m \log(x))} + 8 B^2 a^2 b^2 d^2 m^3 x^4 x^{(3n)} e^{(m \log(e) + m \log(x))} + 4 A^2 b^2 d^2 m^3 x^4 x^{(3n)} e^{(m \log(e) + m \log(x))} + 4 B^2 b^2 d^2 m^3 x^4 x^{(3n)} e^{(m \log(e) + m \log(x))} + 21 B^2 b^2 c^2 m^2 n^2 x^4 x^{(3n)} e^{(m \log(e) + m \log(x))} + 42 B^2 a^2 b^2 d^2 m^2 n^2 x^4 x^{(3n)} e^{(m \log(e) + m \log(x))} + 21 A^2 b^2 d^2 m^2 n^2 x^4 x^{(3n)} e^{(m \log(e) + m \log(x))} + 18 B^2 b^2 d^2 m^2 n^2 x^4 x^{(3n)} e^{(m \log(e) + m \log(x))} + 28 B^2 b^2 c^2 m^{2n} x^4 x^{(3n)} e^{(m \log(e) + m \log(x))} + 56 B^2 a^2 b^2 d^2 m^{2n} x^4 x^{(3n)} e^{(m \log(e) + m \log(x))} + 28 A^2 b^2 d^2 m^{2n} x^4 x^{(3n)} e^{(m \log(e) + m \log(x))} + 22 B^2 b^2 d^2 m^{2n} x^4 x^{(3n)} e^{(m \log(e) + m \log(x))} + 8 B^2 b^2 c^2 n^3 x^4 x^{(3n)} e^{(m \log(e) + m \log(x))} + 16 B^2 a^2 b^2 d^2 n^3 x^4 x^{(3n)} e^{(m \log(e) + m \log(x))} + 8 A^2 b^2 d^2 n^3 x^4 x^{(3n)} e^{(m \log(e) + m \log(x))} + 6 B^2 b^2 d^2 n^3 x^4 x^{(3n)} e^{(m \log(e) + m \log(x))} + 8 B^2 a^2 b^2 c^2 m^3 x^4 x^{(2n)} e^{(m \log(e) + m \log(x))} + 4 A^2 b^2 c^2 m^3 x^4 x^{(2n)} e^{(m \log(e) + m \log(x))} + 4 B^2 b^2 c^2 m^3 x^4 x^{(2n)} e^{(m \log(e) + m \log(x))} + 4 B^2 a^2 d^2 m^3 x^4 x^{(2n)} e^{(m \log(e) + m \log(x))} + 8 A^2 a^2 b^2 d^2 m^3 x^4 x^{(2n)} e^{(m \log(e) + m \log(x))} + 8 B^2 a^2 b^2 d^2 m^3 x^4 x^{(2n)} e^{(m \log(e) + m \log(x))} + 4 A^2 b^2 d^2 m^3 x^4 x^{(2n)} e^{(m \log(e) + m \log(x))} + 4 B^2 b^2 d^2 m^3 x^4 x^{(2n)} e^{(m \log(e) + m \log(x))} + 48 B^2 a^2 b^2 c^2 m^{2n} x^4 x^{(2n)} e^{(m \log(e) + m \log(x))} + 24 A^2 b^2 c^2 m^{2n} x^4 x^{(2n)} e^{(m \log(e) + m \log(x))} + 21 B^2 b^2 c^2 m^{2n} x^4 x^{(2n)} e^{(m \log(e) + m \log(x))} + 24 B^2 a^2 d^2 m^{2n} x^4 x^{(2n)} e^{(m \log(e) + m \log(x))} + 48 A^2 a^2 b^2 d^2 m^{2n} x^4 x^{(2n)} e^{(m \log(e) + m \log(x))} + 42 B^2 a^2 b^2 d^2 m^{2n} x^4 x^{(2n)} e^{(m \log(e) + m \log(x))} + 21 A^2 b^2 d^2 m^{2n} x^4 x^{(2n)} e^{(m \log(e) + m \log(x))} + 18 B^2 b^2 d^2 m^{2n} x^4 x^{(2n)} e^{(m \log(e) + m \log(x))} + 76 B^2 a^2 b^2 c^2 m^{2n} x^4 x^{(2n)} e^{(m \log(e) + m \log(x))} + 38 A^2 b^2 c^2 m^{2n} x^4 x^{(2n)} e^{(m \log(e) + m \log(x))} + 28 B^2 b^2 c^2 m^{2n} x^4 x^{(2n)} e^{(m \log(e) + m \log(x))} + 38 B^2 a^2 d^2 m^{2n} x^4 x^{(2n)} e^{(m \log(e) + m \log(x))} + 76 A^2 a^2 b^2 d^2 m^{2n} x^4 x^{(2n)} e^{(m \log(e) + m \log(x))} + 56 B^2 a^2 b^2 d^2 m^{2n} x^4 x^{(2n)} e^{(m \log(e) + m \log(x))} + 28 A^2 b^2 d^2 m^{2n} x^4 x^{(2n)} e^{(m \log(e) + m \log(x))} + 22 B^2 b^2 d^2 m^{2n} x^4 x^{(2n)} e^{(m \log(e) + m \log(x))} + 24 B^2 a^2 b^2 c^2 n^3 x^4 x^{(2n)} e^{(m \log(e) + m \log(x))} + 12 A^2 b^2 c^2 n^3 x^4 x^{(2n)} e^{(m \log(e) + m \log(x))}
\end{aligned}$$

$$\begin{aligned}
& + 8*B*b^2*c*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 12*B*a^2*d*n^3*x*x^{(2*n)} \\
&)*e^{(m*\log(e) + m*\log(x))} + 24*A*a*b*d*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} \\
&) + 16*B*a*b*d*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 8*A*b^2*d*n^3*x*x^{(2 \\
& *n)}*e^{(m*\log(e) + m*\log(x))} + 6*B*b^2*d*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x) \\
&)) + 4*B*a^2*c*m^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 8*A*a*b*c*m^3*x*x^n*e^{(m \\
& *log(e) + m*log(x))} + 8*B*a*b*c*m^3*x*x^n*e^{(m*log(e) + m*log(x))} + 4*A*b^2 \\
& *c*m^3*x*x^n*e^{(m*log(e) + m*log(x))} + 4*B*b^2*c*m^3*x*x^n*e^{(m*log(e) + m* \\
& log(x))} + 4*A*a^2*d*m^3*x*x^n*e^{(m*log(e) + m*log(x))} + 4*B*a^2*d*m^3*x*x^n \\
& *e^{(m*log(e) + m*log(x))} + 8*A*a*b*d*m^3*x*x^n*e^{(m*log(e) + m*log(x))} + 8* \\
& B*a*b*d*m^3*x*x^n*e^{(m*log(e) + m*log(x))} + 4*A*b^2*d*m^3*x*x^n*e^{(m*log(e) \\
& + m*log(x))} + 4*B*b^2*d*m^3*x*x^n*e^{(m*log(e) + m*log(x))} + 27*B*a^2*c*m^2 \\
& *n*x*x^n*e^{(m*log(e) + m*log(x))} + 54*A*a*b*c*m^2*n*x*x^n*e^{(m*log(e) + m*1 \\
& og(x))} + 48*B*a*b*c*m^2*n*x*x^n*e^{(m*log(e) + m*log(x))} + 24*A*b^2*c*m^2*n* \\
& x*x^n*e^{(m*log(e) + m*log(x))} + 21*B*b^2*c*m^2*n*x*x^n*e^{(m*log(e) + m*log(\\
& x))} + 27*A*a^2*d*m^2*n*x*x^n*e^{(m*log(e) + m*log(x))} + 24*B*a^2*d*m^2*n*x*x \\
& ^n*e^{(m*log(e) + m*log(x))} + 48*A*a*b*d*m^2*n*x*x^n*e^{(m*log(e) + m*log(x))} \\
& + 42*B*a*b*d*m^2*n*x*x^n*e^{(m*log(e) + m*log(x))} + 21*A*b^2*d*m^2*n*x*x^n* \\
& e^{(m*log(e) + m*log(x))} + 18*B*b^2*d*m^2*n*x*x^n*e^{(m*log(e) + m*log(x))} + \\
& 52*B*a^2*c*m*n^2*x*x^n*e^{(m*log(e) + m*log(x))} + 104*A*a*b*c*m*n^2*x*x^n*e^{ \\
& (m*log(e) + m*log(x))} + 76*B*a*b*c*m*n^2*x*x^n*e^{(m*log(e) + m*log(x))} + 38 \\
& *A*b^2*c*m*n^2*x*x^n*e^{(m*log(e) + m*log(x))} + 28*B*b^2*c*m*n^2*x*x^n*e^{(m* \\
& log(e) + m*log(x))} + 52*A*a^2*d*m*n^2*x*x^n*e^{(m*log(e) + m*log(x))} + 38*B* \\
& a^2*d*m*n^2*x*x^n*e^{(m*log(e) + m*log(x))} + 76*A*a*b*d*m*n^2*x*x^n*e^{(m*log \\
& (e) + m*log(x))} + 56*B*a*b*d*m*n^2*x*x^n*e^{(m*log(e) + m*log(x))} + 28*A*b^2 \\
& *d*m*n^2*x*x^n*e^{(m*log(e) + m*log(x))} + 22*B*b^2*d*m*n^2*x*x^n*e^{(m*log(e) \\
& + m*log(x))} + 24*B*a^2*c*n^3*x*x^n*e^{(m*log(e) + m*log(x))} + 48*A*a*b*c*n^ \\
& 3*x*x^n*e^{(m*log(e) + m*log(x))} + 24*B*a*b*c*n^3*x*x^n*e^{(m*log(e) + m*log(\\
& x))} + 12*A*b^2*c*n^3*x*x^n*e^{(m*log(e) + m*log(x))} + 8*B*b^2*c*n^3*x*x^n*e^{ \\
& (m*log(e) + m*log(x))} + 24*A*a^2*d*n^3*x*x^n*e^{(m*log(e) + m*log(x))} + 12*B \\
& *a^2*d*n^3*x*x^n*e^{(m*log(e) + m*log(x))} + 24*A*a*b*d*n^3*x*x^n*e^{(m*log(e) \\
& + m*log(x))} + 16*B*a*b*d*n^3*x*x^n*e^{(m*log(e) + m*log(x))} + 8*A*b^2*d*n^3 \\
& *x*x^n*e^{(m*log(e) + m*log(x))} + 6*B*b^2*d*n^3*x*x^n*e^{(m*log(e) + m*log(x) \\
&)} + 4*A*a^2*c*m^3*x*e^{(m*log(e) + m*log(x))} + 4*B*a^2*c*m^3*x*e^{(m*log(e) + \\
& m*log(x))} + 8*A*a*b*c*m^3*x*e^{(m*log(e) + m*log(x))} + 8*B*a*b*c*m^3*x*e^{(m \\
& *log(e) + m*log(x))} + 4*A*b^2*c*m^3*x*e^{(m*log(e) + m*log(x))} + 4*B*b^2*c*m \\
& ^3*x*e^{(m*log(e) + m*log(x))} + 4*A*a^2*d*m^3*x*e^{(m*log(e) + m*log(x))} + 4* \\
& B*a^2*d*m^3*x*e^{(m*log(e) + m*log(x))} + 8*A*a*b*d*m^3*x*e^{(m*log(e) + m*log \\
& (x))} + 8*B*a*b*d*m^3*x*e^{(m*log(e) + m*log(x))} + 4*A*b^2*d*m^3*x*e^{(m*log(e) \\
&) + m*log(x))} + 4*B*b^2*d*m^3*x*e^{(m*log(e) + m*log(x))} + 30*A*a^2*c*m^2*n* \\
& x*e^{(m*log(e) + m*log(x))} + 27*B*a^2*c*m^2*n*x*e^{(m*log(e) + m*log(x))} + 54 \\
& *A*a*b*c*m^2*n*x*e^{(m*log(e) + m*log(x))} + 48*B*a*b*c*m^2*n*x*e^{(m*log(e) + \\
& m*log(x))} + 24*A*b^2*c*m^2*n*x*e^{(m*log(e) + m*log(x))} + 21*B*b^2*c*m^2*n* \\
& x*e^{(m*log(e) + m*log(x))} + 27*A*a^2*d*m^2*n*x*e^{(m*log(e) + m*log(x))} + 24 \\
& *B*a^2*d*m^2*n*x*e^{(m*log(e) + m*log(x))} + 48*A*a*b*d*m^2*n*x*e^{(m*log(e) + \\
& m*log(x))} + 42*B*a*b*d*m^2*n*x*e^{(m*log(e) + m*log(x))} + 21*A*b^2*d*m^2*n*
\end{aligned}$$

$$\begin{aligned}
& x^e^{(m \log(e) + m \log(x))} + 18*B*b^2*d*m^2*n*x^e^{(m \log(e) + m \log(x))} + 70 \\
& *A*a^2*c*m^n^2*x^e^{(m \log(e) + m \log(x))} + 52*B*a^2*c*m^n^2*x^e^{(m \log(e) + \\
& m \log(x))} + 104*A*a*b*c*m^n^2*x^e^{(m \log(e) + m \log(x))} + 76*B*a*b*c*m^n^2 \\
& *x^e^{(m \log(e) + m \log(x))} + 38*A*b^2*c*m^n^2*x^e^{(m \log(e) + m \log(x))} + 2 \\
& 8*B*b^2*c*m^n^2*x^e^{(m \log(e) + m \log(x))} + 52*A*a^2*d*m^n^2*x^e^{(m \log(e) \\
& + m \log(x))} + 38*B*a^2*d*m^n^2*x^e^{(m \log(e) + m \log(x))} + 76*A*a*b*d*m^n^2 \\
& *x^e^{(m \log(e) + m \log(x))} + 56*B*a*b*d*m^n^2*x^e^{(m \log(e) + m \log(x))} + 2 \\
& 8*A*b^2*d*m^n^2*x^e^{(m \log(e) + m \log(x))} + 22*B*b^2*d*m^n^2*x^e^{(m \log(e) \\
& + m \log(x))} + 50*A*a^2*c*n^3*x^e^{(m \log(e) + m \log(x))} + 24*B*a^2*c*n^3*x^e \\
& ^{(m \log(e) + m \log(x))} + 48*A*a*b*c*n^3*x^e^{(m \log(e) + m \log(x))} + 24*B*a* \\
& b*c*n^3*x^e^{(m \log(e) + m \log(x))} + 12*A*b^2*c*n^3*x^e^{(m \log(e) + m \log(x))} \\
&) + 8*B*b^2*c*n^3*x^e^{(m \log(e) + m \log(x))} + 24*A*a^2*d*n^3*x^e^{(m \log(e) \\
& + m \log(x))} + 12*B*a^2*d*n^3*x^e^{(m \log(e) + m \log(x))} + 24*A*a*b*d*n^3*x^e \\
& ^{(m \log(e) + m \log(x))} + 16*B*a*b*d*n^3*x^e^{(m \log(e) + m \log(x))} + 8*A*b^2 \\
& *d*n^3*x^e^{(m \log(e) + m \log(x))} + 6*B*b^2*d*n^3*x^e^{(m \log(e) + m \log(x))} \\
& + 6*B*b^2*d*m^2*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 18*B*b^2*d*m^n*x*x^{(4*n)} \\
&)*e^{(m \log(e) + m \log(x))} + 11*B*b^2*d*n^2*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} \\
&) + 6*B*b^2*c*m^2*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 12*B*a*b*d*m^2*x*x^{(3 \\
& *n)}*e^{(m \log(e) + m \log(x))} + 6*A*b^2*d*m^2*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} \\
&) + 6*B*b^2*d*m^2*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 21*B*b^2*c*m^n*x*x^{(\\
& 3*n)}*e^{(m \log(e) + m \log(x))} + 42*B*a*b*d*m^n*x*x^{(3*n)}*e^{(m \log(e) + m \log \\
& (x))} + 21*A*b^2*d*m^n*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 18*B*b^2*d*m^n*x* \\
& x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 14*B*b^2*c*n^2*x*x^{(3*n)}*e^{(m \log(e) + m \\
& \log(x))} + 28*B*a*b*d*n^2*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 14*A*b^2*d*n^2 \\
& *x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 11*B*b^2*d*n^2*x*x^{(3*n)}*e^{(m \log(e) + \\
& m \log(x))} + 12*B*a*b*c*m^2*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + 6*A*b^2*c*m \\
& ^2*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + 6*B*b^2*c*m^2*x*x^{(2*n)}*e^{(m \log(e) \\
& + m \log(x))} + 6*B*a^2*d*m^2*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + 12*A*a*b*d* \\
& m^2*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + 12*B*a*b*d*m^2*x*x^{(2*n)}*e^{(m \log(e) \\
&) + m \log(x))} + 6*A*b^2*d*m^2*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + 6*B*b^2*d \\
& *m^2*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + 48*B*a*b*c*m^n*x*x^{(2*n)}*e^{(m \log(e) \\
& e) + m \log(x))} + 24*A*b^2*c*m^n*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + 21*B*b^ \\
& 2*c*m^n*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + 24*B*a^2*d*m^n*x*x^{(2*n)}*e^{(m \log \\
& (e) + m \log(x))} + 48*A*a*b*d*m^n*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + 42*B \\
& *a*b*d*m^n*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + 21*A*b^2*d*m^n*x*x^{(2*n)}*e^{(\\
& m \log(e) + m \log(x))} + 18*B*b^2*d*m^n*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + 3 \\
& 8*B*a*b*c*n^2*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + 19*A*b^2*c*n^2*x*x^{(2*n)*} \\
& e^{(m \log(e) + m \log(x))} + 14*B*b^2*c*n^2*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} \\
& + 19*B*a^2*d*n^2*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + 38*A*a*b*d*n^2*x*x^{(2* \\
& n)}*e^{(m \log(e) + m \log(x))} + 28*B*a*b*d*n^2*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} \\
&) + 14*A*b^2*d*n^2*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + 11*B*b^2*d*n^2*x*x^{ \\
& (2*n)}*e^{(m \log(e) + m \log(x))} + 6*B*a^2*c*m^2*x*x^n*e^{(m \log(e) + m \log(x))} \\
& + 12*A*a*b*c*m^2*x*x^n*e^{(m \log(e) + m \log(x))} + 12*B*a*b*c*m^2*x*x^n*e^{(m \\
& * \log(e) + m \log(x))} + 6*A*b^2*c*m^2*x*x^n*e^{(m \log(e) + m \log(x))} + 6*B*b^2 \\
& *c*m^2*x*x^n*e^{(m \log(e) + m \log(x))} + 6*A*a^2*d*m^2*x*x^n*e^{(m \log(e) + m
\end{aligned}$$

$$\begin{aligned}
& \log(x)) + 6*B*a^2*d*m^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 12*A*a*b*d*m^2*x*x^n \\
& *e^{(m*\log(e) + m*\log(x))} + 12*B*a*b*d*m^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + \\
& 6*A*b^2*d*m^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 6*B*b^2*d*m^2*x*x^n*e^{(m*\log(\\
& e) + m*\log(x))} + 27*B*a^2*c*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 54*A*a*b*c* \\
& m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 48*B*a*b*c*m*n*x*x^n*e^{(m*\log(e) + m*lo \\
& g(x))} + 24*A*b^2*c*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 21*B*b^2*c*m*n*x*x^n \\
& *e^{(m*\log(e) + m*\log(x))} + 27*A*a^2*d*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2 \\
& 4*B*a^2*d*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 48*A*a*b*d*m*n*x*x^n*e^{(m*\log \\
& (e) + m*\log(x))} + 42*B*a*b*d*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 21*A*b^2*d \\
& *m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 18*B*b^2*d*m*n*x*x^n*e^{(m*\log(e) + m*l \\
& og(x))} + 26*B*a^2*c*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 52*A*a*b*c*n^2*x*x^n \\
& *e^{(m*\log(e) + m*\log(x))} + 38*B*a*b*c*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + \\
& 19*A*b^2*c*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 14*B*b^2*c*n^2*x*x^n*e^{(m*lo \\
& g(e) + m*\log(x))} + 26*A*a^2*d*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 19*B*a^2*d \\
& *n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 38*A*a*b*d*n^2*x*x^n*e^{(m*\log(e) + m* \\
& log(x))} + 28*B*a*b*d*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 14*A*b^2*d*n^2*x*x \\
& ^n*e^{(m*\log(e) + m*\log(x))} + 11*B*b^2*d*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + \\
& 6*A*a^2*c*m^2*x*e^{(m*\log(e) + m*\log(x))} + 6*B*a^2*c*m^2*x*e^{(m*\log(e) + m* \\
& log(x))} + 12*A*a*b*c*m^2*x*e^{(m*\log(e) + m*\log(x))} + 12*B*a*b*c*m^2*x*e^{(m* \\
& log(e) + m*\log(x))} + 6*A*b^2*c*m^2*x*e^{(m*\log(e) + m*\log(x))} + 6*B*b^2*c*m^ \\
& 2*x*e^{(m*\log(e) + m*\log(x))} + 6*A*a^2*d*m^2*x*e^{(m*\log(e) + m*\log(x))} + 6*B \\
& *a^2*d*m^2*x*e^{(m*\log(e) + m*\log(x))} + 12*A*a*b*d*m^2*x*e^{(m*\log(e) + m*log \\
& (x))} + 12*B*a*b*d*m^2*x*e^{(m*\log(e) + m*\log(x))} + 6*A*b^2*d*m^2*x*e^{(m*\log(\\
& e) + m*\log(x))} + 6*B*b^2*d*m^2*x*e^{(m*\log(e) + m*\log(x))} + 30*A*a^2*c*m*n*x \\
& *e^{(m*\log(e) + m*\log(x))} + 27*B*a^2*c*m*n*x*e^{(m*\log(e) + m*\log(x))} + 54*A \\
& a*b*c*m*n*x*e^{(m*\log(e) + m*\log(x))} + 48*B*a*b*c*m*n*x*e^{(m*\log(e) + m*\log(\\
& x))} + 24*A*b^2*c*m*n*x*e^{(m*\log(e) + m*\log(x))} + 21*B*b^2*c*m*n*x*e^{(m*\log(\\
& e) + m*\log(x))} + 27*A*a^2*d*m*n*x*e^{(m*\log(e) + m*\log(x))} + 24*B*a^2*d*m*n* \\
& x*e^{(m*\log(e) + m*\log(x))} + 48*A*a*b*d*m*n*x*e^{(m*\log(e) + m*\log(x))} + 42*B \\
& *a*b*d*m*n*x*e^{(m*\log(e) + m*\log(x))} + 21*A*b^2*d*m*n*x*e^{(m*\log(e) + m*log \\
& (x))} + 18*B*b^2*d*m*n*x*e^{(m*\log(e) + m*\log(x))} + 35*A*a^2*c*n^2*x*e^{(m*log \\
& (e) + m*\log(x))} + 26*B*a^2*c*n^2*x*e^{(m*\log(e) + m*\log(x))} + 52*A*a*b*c*n^2 \\
& *x*e^{(m*\log(e) + m*\log(x))} + 38*B*a*b*c*n^2*x*e^{(m*\log(e) + m*\log(x))} + 19* \\
& A*b^2*c*n^2*x*e^{(m*\log(e) + m*\log(x))} + 14*B*b^2*c*n^2*x*e^{(m*\log(e) + m*lo \\
& g(x))} + 26*A*a^2*d*n^2*x*e^{(m*\log(e) + m*\log(x))} + 19*B*a^2*d*n^2*x*e^{(m*lo \\
& g(e) + m*\log(x))} + 38*A*a*b*d*n^2*x*e^{(m*\log(e) + m*\log(x))} + 28*B*a*b*d*n^ \\
& 2*x*e^{(m*\log(e) + m*\log(x))} + 14*A*b^2*d*n^2*x*e^{(m*\log(e) + m*\log(x))} + 11 \\
& *B*b^2*d*n^2*x*e^{(m*\log(e) + m*\log(x))} + 4*B*b^2*d*m*x*x^{(4*n)}*e^{(m*\log(e) \\
& + m*\log(x))} + 6*B*b^2*d*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 4*B*b^2*c*m*x \\
& *x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 8*B*a*b*d*m*x*x^{(3*n)}*e^{(m*\log(e) + m*lo \\
& g(x))} + 4*A*b^2*d*m*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 4*B*b^2*d*m*x*x^{(3* \\
& n)}*e^{(m*\log(e) + m*\log(x))} + 7*B*b^2*c*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} \\
& + 14*B*a*b*d*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 7*A*b^2*d*n*x*x^{(3*n)}*e^ \\
& (m*\log(e) + m*\log(x)) + 6*B*b^2*d*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 8*B \\
& *a*b*c*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 4*A*b^2*c*m*x*x^{(2*n)}*e^{(m*log
\end{aligned}$$

$(e) + m \log(x)) + 4B^2 b^2 c m x x^{(2n)} e^{(m \log(e) + m \log(x))} + 4B^2 a^2 d m x x^{(2n)} e^{(m \log(e) + m \log(x))} + 8A^2 a b d m x x^{(2n)} e^{(m \log(e) + m \log(x))} + 8B^2 a b d m x x^{(2n)} e^{(m \log(e) + m \log(x))} + 4A^2 b^2 d m x x^{(2n)} e^{(m \log(e) + m \log(x))} + 4B^2 b^2 d m x x^{(2n)} e^{(m \log(e) + m \log(x))} + 16B^2 a b c n x x^{(2n)} e^{(m \log(e) + m \log(x))} + 8A^2 b^2 c n x x^{(2n)} e^{(m \log(e) + m \log(x))} + 7B^2 b^2 c n x x^{(2n)} e^{(m \log(e) + m \log(x))} + 8B^2 a^2 d n x x^{(2n)} e^{(m \log(e) + m \log(x))} + 16A^2 a b d n x x^{(2n)} e^{(m \log(e) + m \log(x))} + 14B^2 a b d n x x^{(2n)} e^{(m \log(e) + m \log(x))} + 7A^2 b^2 d n x x^{(2n)} e^{(m \log(e) + m \log(x))} + 6B^2 b^2 d n x x^{(2n)} e^{(m \log(e) + m \log(x))} + 4B^2 a^2 c m x x^n e^{(m \log(e) + m \log(x))} + 8A^2 a b c m x x^n e^{(m \log(e) + m \log(x))} + 8B^2 a b c m x x^n e^{(m \log(e) + m \log(x))} + 4A^2 b^2 c m x x^n e^{(m \log(e) + m \log(x))} + 4B^2 b^2 c m x x^n e^{(m \log(e) + m \log(x))} + 4A^2 a^2 d m x x^n e^{(m \log(e) + m \log(x))} + 4B^2 a^2 d m x x^n e^{(m \log(e) + m \log(x))} + 8A^2 a b d m x x^n e^{(m \log(e) + m \log(x))} + 8B^2 a b d m x x^n e^{(m \log(e) + m \log(x))} + 4A^2 b^2 d m x x^n e^{(m \log(e) + m \log(x))} + 9B^2 a^2 c n x x^n e^{(m \log(e) + m \log(x))} + 18A^2 a b c n x x^n e^{(m \log(e) + m \log(x))} + 16B^2 a b c n x x^n e^{(m \log(e) + m \log(x))} + 8A^2 b^2 c n x x^n e^{(m \log(e) + m \log(x))} + 7B^2 b^2 c n x x^n e^{(m \log(e) + m \log(x))} + 9A^2 a^2 d n x x^n e^{(m \log(e) + m \log(x))} + 8B^2 a^2 d n x x^n e^{(m \log(e) + m \log(x))} + 16A^2 a b d n x x^n e^{(m \log(e) + m \log(x))} + 14B^2 a b d n x x^n e^{(m \log(e) + m \log(x))} + 7A^2 b^2 d n x x^n e^{(m \log(e) + m \log(x))} + 6B^2 b^2 d n x x^n e^{(m \log(e) + m \log(x))} + 4A^2 a^2 c m x x e^{(m \log(e) + m \log(x))} + 4B^2 a^2 c m x x e^{(m \log(e) + m \log(x))} + 8A^2 a b c m x x e^{(m \log(e) + m \log(x))} + 8B^2 a b c m x x e^{(m \log(e) + m \log(x))} + 4A^2 b^2 c m x x e^{(m \log(e) + m \log(x))} + 4B^2 b^2 c m x x e^{(m \log(e) + m \log(x))} + 4A^2 a^2 d m x x e^{(m \log(e) + m \log(x))} + 4B^2 a^2 d m x x e^{(m \log(e) + m \log(x))} + 8A^2 a b d m x x e^{(m \log(e) + m \log(x))} + 8B^2 a b d m x x e^{(m \log(e) + m \log(x))} + 4A^2 b^2 d m x x e^{(m \log(e) + m \log(x))} + 4B^2 b^2 d m x x e^{(m \log(e) + m \log(x))} + 10A^2 a^2 c n x x e^{(m \log(e) + m \log(x))} + 9B^2 a^2 c n x x e^{(m \log(e) + m \log(x))} + 18A^2 a b c n x x e^{(m \log(e) + m \log(x))} + 16B^2 a b c n x x e^{(m \log(e) + m \log(x))} + 8A^2 b^2 c n x x e^{(m \log(e) + m \log(x))} + 7B^2 b^2 c n x x e^{(m \log(e) + m \log(x))} + 9A^2 a^2 d n x x e^{(m \log(e) + m \log(x))} + 8B^2 a^2 d n x x e^{(m \log(e) + m \log(x))} + 16A^2 a b d n x x e^{(m \log(e) + m \log(x))} + 14B^2 a b d n x x e^{(m \log(e) + m \log(x))} + 7A^2 b^2 d n x x e^{(m \log(e) + m \log(x))} + 6B^2 b^2 d n x x e^{(m \log(e) + m \log(x))} + B^2 b^2 d x x^{(4n)} e^{(m \log(e) + m \log(x))} + B^2 b^2 c x x^{(3n)} e^{(m \log(e) + m \log(x))} + 2B^2 a b d x x^{(3n)} e^{(m \log(e) + m \log(x))} + A^2 b^2 d x x^{(3n)} e^{(m \log(e) + m \log(x))} + B^2 b^2 d x x^{(3n)} e^{(m \log(e) + m \log(x))} + 2B^2 a b c x x^{(2n)} e^{(m \log(e) + m \log(x))} + A^2 b^2 c x x^{(2n)} e^{(m \log(e) + m \log(x))} + B^2 b^2 c x x^{(2n)} e^{(m \log(e) + m \log(x))} + B^2 a^2 d x x^{(2n)} e^{(m \log(e) + m \log(x))} + 2A^2 a b d x x^{(2n)} e^{(m \log(e) + m \log(x))} + 2B^2 a b d x x^{(2n)} e^{(m \log(e) + m \log(x))} + A^2 b^2 d x x^{(2n)} e^{(m \log(e) + m \log(x))} + B^2 b^2 d x x^{(2n)} e^{(m \log(e) + m \log(x))} + B^2 a^2 c x x^n e^{(m \log(e) + m \log(x))} + 2A^2 a b c x x^n e^{(m \log(e) + m \log(x))} + 2B^2 a b c x x^n e^{(m \log(e) + m \log(x))} + A^2 b^2 c x x^n e^{(m \log(e) + m \log(x))} + B$

$$\begin{aligned}
 & *b^2*c*x*x^n*e^{(m*\log(e) + m*\log(x))} + A*a^2*d*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
 &) + B*a^2*d*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2*A*a*b*d*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
 & + 2*B*a*b*d*x*x^n*e^{(m*\log(e) + m*\log(x))} + A*b^2*d*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
 & + B*b^2*d*x*x^n*e^{(m*\log(e) + m*\log(x))} + A*a^2*c*x*e^{(m*\log(e) + m*\log(x))} \\
 & + B*a^2*c*x*e^{(m*\log(e) + m*\log(x))} + 2*A*a*b*c*x*e^{(m*\log(e) + m*\log(x))} \\
 & + 2*B*a*b*c*x*e^{(m*\log(e) + m*\log(x))} + A*b^2*c*x*e^{(m*\log(e) + m*\log(x))} \\
 & + B*b^2*c*x*e^{(m*\log(e) + m*\log(x))} + A*a^2*d*x*e^{(m*\log(e) + m*\log(x))} \\
 & + B*a^2*d*x*e^{(m*\log(e) + m*\log(x))} + 2*A*a*b*d*x*e^{(m*\log(e) + m*\log(x))} \\
 & + 2*B*a*b*d*x*e^{(m*\log(e) + m*\log(x))} + A*b^2*d*x*e^{(m*\log(e) + m*\log(x))} \\
 & + B*b^2*d*x*e^{(m*\log(e) + m*\log(x))})/(m^5 + 10*m^4*n + 35*m^3*n^2 + 50*m^2*n^3 \\
 & + 24*m*n^4 + 5*m^4 + 40*m^3*n + 105*m^2*n^2 + 100*m*n^3 + 24*n^4 + 10*m^3 + 60*m^2*n \\
 & + 105*m*n^2 + 50*n^3 + 10*m^2 + 40*m*n + 35*n^2 + 5*m + 10*n + 1)
 \end{aligned}$$

Mupad [B] (verification not implemented)

Time = 9.50 (sec) , antiderivative size = 588, normalized size of antiderivative = 3.68

$$\begin{aligned}
 & \int (ex)^m (a + bx^n)^2 (A + Bx^n) (c + dx^n) dx \\
 & = \frac{x^2 x^{2n} (ex)^m (Ab^2c + Ba^2d + 2Aabd + 2Babc) (m^3 + 8m^2n + 3m^2 + 19mn^2 + 16mn + 3m + 12n^3 + 10n^4 + 50n^5)}{m^4 + 10m^3n + 4m^3 + 35m^2n^2 + 30m^2n + 6m^2 + 50mn^3 + 70mn^2 + 30mn + 4m + 24n^4 + 50n^5} \\
 & + \frac{Aa^2cx (ex)^m}{m + 1} \\
 & + \frac{axx^n (ex)^m (Aad + 2Abc + Bac) (m^3 + 9m^2n + 3m^2 + 26mn^2 + 18mn + 3m + 24n^3 + 20n^4 + 50n^5)}{m^4 + 10m^3n + 4m^3 + 35m^2n^2 + 30m^2n + 6m^2 + 50mn^3 + 70mn^2 + 30mn + 4m + 24n^4 + 50n^5} \\
 & + \frac{bxx^{3n} (ex)^m (Abd + 2Bad + Bbc) (m^3 + 7m^2n + 3m^2 + 14mn^2 + 14mn + 3m + 8n^3 + 10n^4 + 50n^5)}{m^4 + 10m^3n + 4m^3 + 35m^2n^2 + 30m^2n + 6m^2 + 50mn^3 + 70mn^2 + 30mn + 4m + 24n^4 + 50n^5} \\
 & + \frac{Bb^2dx x^{4n} (ex)^m (m^3 + 6m^2n + 3m^2 + 11mn^2 + 12mn + 3m + 6n^3 + 11n^2 + 6n^3 + 10n^4 + 50n^5)}{m^4 + 10m^3n + 4m^3 + 35m^2n^2 + 30m^2n + 6m^2 + 50mn^3 + 70mn^2 + 30mn + 4m + 24n^4 + 50n^5}
 \end{aligned}$$

[In] int((e*x)^m*(A + B*x^n)*(a + b*x^n)^2*(c + d*x^n),x)

[Out] $(x*x^{(2*n)}*(e*x)^m*(A*b^2*c + B*a^2*d + 2*A*a*b*d + 2*B*a*b*c)*(3*m + 8*n + 16*m*n + 19*m*n^2 + 8*m^2*n + 3*m^2 + m^3 + 19*n^2 + 12*n^3 + 1))/(4*m + 10*n + 30*m*n + 70*m*n^2 + 30*m^2*n + 50*m*n^3 + 10*m^3*n + 6*m^2 + 4*m^3 + m^4 + 35*n^2 + 50*n^3 + 24*n^4 + 35*m^2*n^2 + 1) + (A*a^2*c*x*(e*x)^m)/(m + 1) + (a*x*x^n*(e*x)^m*(A*a*d + 2*A*b*c + B*a*c)*(3*m + 9*n + 18*m*n + 26*m*n^2 + 9*m^2*n + 3*m^2 + m^3 + 26*n^2 + 24*n^3 + 1))/(4*m + 10*n + 30*m*n + 70*m*n^2 + 30*m^2*n + 50*m*n^3 + 10*m^3*n + 6*m^2 + 4*m^3 + m^4 + 35*n^2 + 50*n^3 + 24*n^4 + 35*m^2*n^2 + 1) + (b*x*x^{(3*n)}*(e*x)^m*(A*b*d + 2*B*a*d + B*b*c)*(3*m + 7*n + 14*m*n + 14*m*n^2 + 7*m^2*n + 3*m^2 + m^3 + 14*n^2 + 8*n^3 + 1))/(4*m + 10*n + 30*m*n + 70*m*n^2 + 30*m^2*n + 50*m*n^3 + 10*m^3*n + 6*m^2 + 4*m^3 + m^4 + 35*n^2 + 50*n^3 + 24*n^4 + 35*m^2*n^2 + 1) + (B*b^2*d*x*x^{(4*n)}*(e*x)^m*(3*m + 6*n + 12*m*n + 11*m*n^2 + 6*m^2*n + 3*m^2 + m$

$$\begin{aligned} &^3 + 11*n^2 + 6*n^3 + 1)) / (4*m + 10*n + 30*m*n + 70*m*n^2 + 30*m^2*n + 50*m \\ &*n^3 + 10*m^3*n + 6*m^2 + 4*m^3 + m^4 + 35*n^2 + 50*n^3 + 24*n^4 + 35*m^2*n \\ &^2 + 1) \end{aligned}$$

3.3 $\int (ex)^m (a + bx^n) (A + Bx^n) (c + dx^n) dx$

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Optimal result

Integrand size = 27, antiderivative size = 108

$$\int (ex)^m (a + bx^n) (A + Bx^n) (c + dx^n) dx = \frac{(Abc + aBc + aAd)x^{1+n}(ex)^m}{1 + m + n} + \frac{(bBc + Abd + aBd)x^{1+2n}(ex)^m}{1 + m + 2n} + \frac{bBdx^{1+3n}(ex)^m}{1 + m + 3n} + \frac{aAc(ex)^{1+m}}{e(1 + m)}$$

[Out] (A*a*d+A*b*c+B*a*c)*x^(1+n)*(e*x)^m/(1+m+n)+(A*b*d+B*a*d+B*b*c)*x^(1+2*n)*(e*x)^m/(1+m+2*n)+b*B*d*x^(1+3*n)*(e*x)^m/(1+m+3*n)+a*A*c*(e*x)^(1+m)/e/(1+m)

Rubi [A] (verified)

Time = 0.06 (sec) , antiderivative size = 108, normalized size of antiderivative = 1.00, number of steps used = 8, number of rules used = 3, $\frac{\text{number of rules}}{\text{integrand size}} = 0.111$, Rules used = {584, 20, 30}

$$\int (ex)^m (a + bx^n) (A + Bx^n) (c + dx^n) dx = \frac{x^{n+1}(ex)^m(aAd + aBc + Abc)}{m + n + 1} + \frac{x^{2n+1}(ex)^m(aBd + Abd + bBc)}{m + 2n + 1} + \frac{aAc(ex)^{m+1}}{e(m + 1)} + \frac{bBdx^{3n+1}(ex)^m}{m + 3n + 1}$$

[In] Int[(e*x)^m*(a + b*x^n)*(A + B*x^n)*(c + d*x^n), x]

```
[Out] ((A*b*c + a*B*c + a*A*d)*x^(1 + n)*(e*x)^m)/(1 + m + n) + ((b*B*c + A*b*d +
a*B*d)*x^(1 + 2*n)*(e*x)^m)/(1 + m + 2*n) + (b*B*d*x^(1 + 3*n)*(e*x)^m)/(1
+ m + 3*n) + (a*A*c*(e*x)^(1 + m))/(e*(1 + m))
```

Rule 20

```
Int[(u_.)*((a_.)*(v_))^(m_.)*((b_.)*(v_))^(n_.), x_Symbol] := Dist[b^IntPart[
n]*((b*v)^FracPart[n]/(a^IntPart[n]*(a*v)^FracPart[n])), Int[u*(a*v)^(m + n
), x], x] /; FreeQ[{a, b, m, n}, x] && !IntegerQ[m] && !IntegerQ[n] && !
IntegerQ[m + n]
```

Rule 30

```
Int[(x_)^(m_.), x_Symbol] := Simp[x^(m + 1)/(m + 1), x] /; FreeQ[m, x] && N
eQ[m, -1]
```

Rule 584

```
Int[((g_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_.))^(p_.)*((c_) + (d_.)*(x_)^(n
_))^(q_.)*((e_) + (f_.)*(x_)^(n_.))^(r_.), x_Symbol] := Int[ExpandIntegrand[
(g*x)^m*(a + b*x^n)^p*(c + d*x^n)^q*(e + f*x^n)^r, x], x] /; FreeQ[{a, b, c
, d, e, f, g, m, n}, x] && IGtQ[p, -2] && IGtQ[q, 0] && IGtQ[r, 0]
```

Rubi steps

$$\begin{aligned}
\text{integral} &= \int (aAc(ex)^m + (Abc + aBc + aAd)x^n(ex)^m + (bBc + Abd + aBd)x^{2n}(ex)^m \\
&\quad + bBdx^{3n}(ex)^m) dx \\
&= \frac{aAc(ex)^{1+m}}{e(1+m)} + (bBd) \int x^{3n}(ex)^m dx + (Abc + aBc + aAd) \int x^n(ex)^m dx \\
&\quad + (bBc + Abd + aBd) \int x^{2n}(ex)^m dx \\
&= \frac{aAc(ex)^{1+m}}{e(1+m)} + (bBdx^{-m}(ex)^m) \int x^{m+3n} dx \\
&\quad + ((Abc + aBc + aAd)x^{-m}(ex)^m) \int x^{m+n} dx \\
&\quad + ((bBc + Abd + aBd)x^{-m}(ex)^m) \int x^{m+2n} dx \\
&= \frac{(Abc + aBc + aAd)x^{1+n}(ex)^m}{1+m+n} + \frac{(bBc + Abd + aBd)x^{1+2n}(ex)^m}{1+m+2n} \\
&\quad + \frac{bBdx^{1+3n}(ex)^m}{1+m+3n} + \frac{aAc(ex)^{1+m}}{e(1+m)}
\end{aligned}$$

Mathematica [A] (verified)

Time = 0.25 (sec) , antiderivative size = 84, normalized size of antiderivative = 0.78

$$\int (ex)^m (a + bx^n) (A + Bx^n) (c + dx^n) dx = x(ex)^m \left(\frac{aAc}{1+m} + \frac{(Abc + aBc + aAd)x^n}{1+m+n} + \frac{(bBc + Abd + aBd)x^{2n}}{1+m+2n} + \frac{bBdx^{3n}}{1+m+3n} \right)$$

`[In] Integrate[(e*x)^m*(a + b*x^n)*(A + B*x^n)*(c + d*x^n),x]`

```
[Out] x*(e*x)^m*((a*A*c)/(1+m) + ((A*b*c + a*B*c + a*A*d)*x^n)/(1+m+n) + ((b*B*c + A*b*d + a*B*d)*x^(2*n))/(1+m+2*n) + (b*B*d*x^(3*n))/(1+m+3*n))
```

Maple [C] (warning: unable to verify)

Result contains higher order function than in optimal. Order 9 vs. order 3.

Time = 0.35 (sec) , antiderivative size = 858, normalized size of antiderivative = 7.94

method	result
risch	$\frac{x(Aad x^n + Bac x^n + 3Aacm + Aac + 6Bbdm n x^{3n} + 3A x^n adm + 5A x^n adn + 3A x^n bcm + 5A x^n bcn + 3B x^n acm + 5B x^n acn + Abc)}{...}$
parallelrisch	Expression too large to display

`[In] int((e*x)^m*(a+b*x^n)*(A+B*x^n)*(c+d*x^n),x,method=_RETURNVERBOSE)`

```
[Out] x*(A*b*d*(x^n)^2+B*a*d*(x^n)^2+B*b*c*(x^n)^2+A*a*d*x^n+B*a*c*x^n+8*A*b*d*m*n*(x^n)^2+3*A*a*c*m+A*a*c+3*A*b*d*m*n^2*(x^n)^2+3*B*a*d*m*n^2*(x^n)^2+3*B*a*d*n^2*(x^n)^2+3*B*(x^n)^2*a*d*m+4*B*(x^n)^2*a*d*n+3*B*(x^n)^2*b*c*m+4*B*(x^n)^2*b*c*n+3*A*x^n*a*d*m+5*A*x^n*a*d*n+3*A*x^n*b*c*m+5*A*x^n*b*c*n+3*B*x^n*a*c*m+5*B*x^n*a*c*n+A*b*c*m^3*x^n+3*B*(x^n)^3*b*d*m+3*B*(x^n)^3*b*d*n+3*A*(x^n)^2*b*d*m+4*A*(x^n)^2*b*d*n+3*B*b*c*m*n^2*(x^n)^2+2*B*b*d*m*n^2*(x^n)^3+10*A*a*d*m*n*x^n+6*A*a*c*n+A*b*c*x^n+6*B*a*c*m*n^2*x^n+3*B*b*d*m^2*n*(x^n)^3+4*B*b*c*m^2*n*(x^n)^2+6*B*b*d*m*n*(x^n)^3+5*A*b*c*m^2*n*x^n+10*A*b*c*m*n*x^n+3*B*b*d*m^2*(x^n)^3+2*B*b*d*n^2*(x^n)^3+A*a*d*m^3*x^n+5*B*a*c*m^2*n*x^n+8*B*b*c*m*n*(x^n)^2+4*B*a*d*m^2*n*(x^n)^2+5*A*a*d*m^2*n*x^n+6*A*a*d*m*n^2*x^n+10*B*a*c*m*n*x^n+4*A*b*d*m^2*n*(x^n)^2+8*B*a*d*m*n*(x^n)^2+6*A*b*c*m*n^2*x^n+3*A*a*d*m^2*x^n+6*A*a*d*n^2*x^n+A*a*c*m^3+3*A*a*c*m^2+11*A*a*c*n^2+d*b*(x^n)^3+B+6*A*a*c*n^3+B*b*c*m^3*(x^n)^2+3*B*a*c*m^2*x^n+6*B*a*c*n^2*x^n+12*A*a*c*m*n+3*A*b*d*m^2*(x^n)^2+3*A*b*d*n^2*(x^n)^2+B*a*c*m^3*x^n+3*B*a*d*m^2*(x^n)^2+3*B*b*c*m^2*(x^n)^2+3*B*b*c*n^2*(x^n)^2+3*A*b*c*m^2*x^n+6*A*b*c*n^2*x^n+B*b*d*m^3*(x^n)^3+A*b*d*m^3*(x^n)^2+B*a*d*m^3*(x^n)^2+6*A*a*c*m^2*n+11*A*a*c*m*n^2)/(1+m)/(1+m+n)/(1+m+2*n)/(1+m+3*n)*e^m*x^m*exp(1/2*I*csgn(I*e*x)*Pi*m*(csgn(I*e*x)-csgn(I*x))*(-csgn(I*e*x)+csgn(I*e)))
```

Fricas [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 562 vs. 2(108) = 216.

Time = 0.27 (sec) , antiderivative size = 562, normalized size of antiderivative = 5.20

$$\int (ex)^m (a + bx^n) (A + Bx^n) (c + dx^n) dx$$

$$= \frac{(Bbdm^3 + 3Bbdm^2 + 3Bbdm + Bbd + 2(Bbdm + Bbd)n^2 + 3(Bbdm^2 + 2Bbdm + Bbd)n)xx^{3n}e^{(m \log(e) -$$

```
[In] integrate((e*x)^m*(a+b*x^n)*(A+B*x^n)*(c+d*x^n),x, algorithm="fricas")
```

```
[Out] ((B*b*d*m^3 + 3*B*b*d*m^2 + 3*B*b*d*m + B*b*d + 2*(B*b*d*m + B*b*d)*n^2 + 3
*(B*b*d*m^2 + 2*B*b*d*m + B*b*d)*n)*x*x^(3*n)*e^(m*log(e) + m*log(x)) + ((B
*b*c + (B*a + A*b)*d)*m^3 + B*b*c + 3*(B*b*c + (B*a + A*b)*d)*m^2 + 3*(B*b*
c + (B*a + A*b)*d + (B*b*c + (B*a + A*b)*d)*m)*n^2 + (B*a + A*b)*d + 3*(B*b
*c + (B*a + A*b)*d)*m + 4*(B*b*c + (B*b*c + (B*a + A*b)*d)*m^2 + (B*a + A*b
)*d + 2*(B*b*c + (B*a + A*b)*d)*m)*n)*x*x^(2*n)*e^(m*log(e) + m*log(x)) + (
(A*a*d + (B*a + A*b)*c)*m^3 + A*a*d + 3*(A*a*d + (B*a + A*b)*c)*m^2 + 6*(A*
a*d + (B*a + A*b)*c + (A*a*d + (B*a + A*b)*c)*m)*n^2 + (B*a + A*b)*c + 3*(A
*a*d + (B*a + A*b)*c)*m + 5*(A*a*d + (A*a*d + (B*a + A*b)*c)*m^2 + (B*a + A
*b)*c + 2*(A*a*d + (B*a + A*b)*c)*m)*n)*x*x^n*e^(m*log(e) + m*log(x)) + (A*
a*c*m^3 + 6*A*a*c*n^3 + 3*A*a*c*m^2 + 3*A*a*c*m + A*a*c + 11*(A*a*c*m + A*a
*c)*n^2 + 6*(A*a*c*m^2 + 2*A*a*c*m + A*a*c)*n)*x*e^(m*log(e) + m*log(x)))/(
m^4 + 6*(m + 1)*n^3 + 4*m^3 + 11*(m^2 + 2*m + 1)*n^2 + 6*m^2 + 6*(m^3 + 3*m
^2 + 3*m + 1)*n + 4*m + 1)
```

Sympy [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 7796 vs. 2(104) = 208.

Time = 3.82 (sec) , antiderivative size = 7796, normalized size of antiderivative = 72.19

$$\int (ex)^m (a + bx^n) (A + Bx^n) (c + dx^n) dx = \text{Too large to display}$$

```
[In] integrate((e*x)**m*(a+b*x**n)*(A+B*x**n)*(c+d*x**n),x)
```

```
[Out] Piecewise((((A + B)*(a + b)*(c + d)*log(x)/e, Eq(m, -1) & Eq(n, 0)), ((A*a*c
*log(x) + A*a*d*x**n/n + A*b*c*x**n/n + A*b*d*x**(2*n)/(2*n) + B*a*c*x**n/n
+ B*a*d*x**(2*n)/(2*n) + B*b*c*x**(2*n)/(2*n) + B*b*d*x**(3*n)/(3*n))/e, E
q(m, -1)), (A*a*c*Piecewise((0**(-3*n - 1)*x, Eq(e, 0)), (Piecewise((-1/(3*
n*(e*x)**(3*n)), Ne(n, 0)), (log(e*x), True))/e, True)) + A*a*d*Piecewise((
-x*x**n*(e*x)**(-3*n - 1)/(2*n), Ne(n, 0)), (x*x**n*(e*x)**(-3*n - 1)*log(x
), True)) + A*b*c*Piecewise((-x*x**n*(e*x)**(-3*n - 1)/(2*n), Ne(n, 0)), (x
```

```

*x**n*(e*x)**(-3*n - 1)*log(x), True)) + A*b*d*Piecewise((-x*x**(2*n)*(e*x)
**(-3*n - 1)/n, Ne(n, 0)), (x*x**(2*n)*(e*x)**(-3*n - 1)*log(x), True)) + B
*a*c*Piecewise((-x*x**n*(e*x)**(-3*n - 1)/(2*n), Ne(n, 0)), (x*x**n*(e*x)**
(-3*n - 1)*log(x), True)) + B*a*d*Piecewise((-x*x**(2*n)*(e*x)**(-3*n - 1)/
n, Ne(n, 0)), (x*x**(2*n)*(e*x)**(-3*n - 1)*log(x), True)) + B*b*c*Piecis
e((-x*x**(2*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x*x**(2*n)*(e*x)**(-3*n - 1
)*log(x), True)) + B*b*d*x*x**(3*n)*(e*x)**(-3*n - 1)*log(x), Eq(m, -3*n -
1)), (A*a*c*Piecewise((0**(-2*n - 1)*x, Eq(e, 0)), (Piecewise((-1/(2*n*(e*x)
)**(2*n)), Ne(n, 0)), (log(e*x), True))/e, True)) + A*a*d*Piecewise((-x*x**
n*(e*x)**(-2*n - 1)/n, Ne(n, 0)), (x*x**n*(e*x)**(-2*n - 1)*log(x), True))
+ A*b*c*Piecewise((-x*x**n*(e*x)**(-2*n - 1)/n, Ne(n, 0)), (x*x**n*(e*x)**(-
2*n - 1)*log(x), True)) + A*b*d*x*x**(2*n)*(e*x)**(-2*n - 1)*log(x) + B*a*
c*Piecewise((-x*x**n*(e*x)**(-2*n - 1)/n, Ne(n, 0)), (x*x**n*(e*x)**(-2*n -
1)*log(x), True)) + B*a*d*x*x**(2*n)*(e*x)**(-2*n - 1)*log(x) + B*b*c*x*x*
*(2*n)*(e*x)**(-2*n - 1)*log(x) + B*b*d*Piecewise((x*x**(3*n)*(e*x)**(-2*n
- 1)/n, Ne(n, 0)), (x*x**(3*n)*(e*x)**(-2*n - 1)*log(x), True)), Eq(m, -2*n
- 1)), (A*a*c*Piecewise((0**(-n - 1)*x, Eq(e, 0)), (Piecewise((-1/(n*(e*x)
)**n), Ne(n, 0)), (log(e*x), True))/e, True)) + A*a*d*x*x**n*(e*x)**(-n - 1
)*log(x) + A*b*c*x*x**n*(e*x)**(-n - 1)*log(x) + A*b*d*Piecewise((x*x**(2*n)
*(e*x)**(-n - 1)/n, Ne(n, 0)), (x*x**(2*n)*(e*x)**(-n - 1)*log(x), True)) +
B*a*c*x*x**n*(e*x)**(-n - 1)*log(x) + B*a*d*Piecewise((x*x**(2*n)*(e*x)**(-
n - 1)/n, Ne(n, 0)), (x*x**(2*n)*(e*x)**(-n - 1)*log(x), True)) + B*b*c*Pi
ecewise((x*x**(2*n)*(e*x)**(-n - 1)/n, Ne(n, 0)), (x*x**(2*n)*(e*x)**(-n -
1)*log(x), True)) + B*b*d*Piecewise((x*x**(3*n)*(e*x)**(-n - 1)/(2*n), Ne(n
, 0)), (x*x**(3*n)*(e*x)**(-n - 1)*log(x), True)), Eq(m, -n - 1)), (A*a*c*m
**3*x*(e*x)**m/(m**4 + 6*m**3*n + 4*m**3 + 11*m**2*n**2 + 18*m**2*n + 6*m**
2 + 6*m*n**3 + 22*m*n**2 + 18*m*n + 4*m + 6*n**3 + 11*n**2 + 6*n + 1) + 6*A
*a*c*m**2*n*x*(e*x)**m/(m**4 + 6*m**3*n + 4*m**3 + 11*m**2*n**2 + 18*m**2*n
+ 6*m**2 + 6*m*n**3 + 22*m*n**2 + 18*m*n + 4*m + 6*n**3 + 11*n**2 + 6*n +
1) + 3*A*a*c*m**2*x*(e*x)**m/(m**4 + 6*m**3*n + 4*m**3 + 11*m**2*n**2 + 18*
m**2*n + 6*m**2 + 6*m*n**3 + 22*m*n**2 + 18*m*n + 4*m + 6*n**3 + 11*n**2 +
6*n + 1) + 11*A*a*c*m*n**2*x*(e*x)**m/(m**4 + 6*m**3*n + 4*m**3 + 11*m**2*n
**2 + 18*m**2*n + 6*m**2 + 6*m*n**3 + 22*m*n**2 + 18*m*n + 4*m + 6*n**3 + 1
1*n**2 + 6*n + 1) + 12*A*a*c*m*n*x*(e*x)**m/(m**4 + 6*m**3*n + 4*m**3 + 11*
m**2*n**2 + 18*m**2*n + 6*m**2 + 6*m*n**3 + 22*m*n**2 + 18*m*n + 4*m + 6*n*
*3 + 11*n**2 + 6*n + 1) + 3*A*a*c*m*x*(e*x)**m/(m**4 + 6*m**3*n + 4*m**3 +
11*m**2*n**2 + 18*m**2*n + 6*m**2 + 6*m*n**3 + 22*m*n**2 + 18*m*n + 4*m + 6
*n**3 + 11*n**2 + 6*n + 1) + 6*A*a*c*n**3*x*(e*x)**m/(m**4 + 6*m**3*n + 4*m
**3 + 11*m**2*n**2 + 18*m**2*n + 6*m**2 + 6*m*n**3 + 22*m*n**2 + 18*m*n + 4
*m + 6*n**3 + 11*n**2 + 6*n + 1) + 11*A*a*c*n**2*x*(e*x)**m/(m**4 + 6*m**3*
n + 4*m**3 + 11*m**2*n**2 + 18*m**2*n + 6*m**2 + 6*m*n**3 + 22*m*n**2 + 18*
m*n + 4*m + 6*n**3 + 11*n**2 + 6*n + 1) + 6*A*a*c*n*x*(e*x)**m/(m**4 + 6*m*
*3*n + 4*m**3 + 11*m**2*n**2 + 18*m**2*n + 6*m**2 + 6*m*n**3 + 22*m*n**2 +
18*m*n + 4*m + 6*n**3 + 11*n**2 + 6*n + 1) + A*a*c*x*(e*x)**m/(m**4 + 6*m**
3*n + 4*m**3 + 11*m**2*n**2 + 18*m**2*n + 6*m**2 + 6*m*n**3 + 22*m*n**2 + 1

```


$$\begin{aligned}
& n + 4m + 6n^{**3} + 11n^{**2} + 6n + 1) + 3A*b*d*m*n^{**2}*x*x^{**}(2*n)*(e*x)^{**}/ \\
& (m^{**4} + 6m^{**3}*n + 4m^{**3} + 11m^{**2}*n^{**2} + 18m^{**2}*n + 6m^{**2} + 6m*n^{**3} + \\
& 22m*n^{**2} + 18m*n + 4m + 6n^{**3} + 11n^{**2} + 6n + 1) + 8A*b*d*m*n*x*x^{**}(\\
& 2*n)*(e*x)^{**}/(m^{**4} + 6m^{**3}*n + 4m^{**3} + 11m^{**2}*n^{**2} + 18m^{**2}*n + 6m^{**2} \\
& + 6m*n^{**3} + 22m*n^{**2} + 18m*n + 4m + 6n^{**3} + 11n^{**2} + 6n + 1) + 3A* \\
& b*d*m*x*x^{**}(2*n)*(e*x)^{**}/(m^{**4} + 6m^{**3}*n + 4m^{**3} + 11m^{**2}*n^{**2} + 18m^{** \\
& 2*n + 6m^{**2} + 6m*n^{**3} + 22m*n^{**2} + 18m*n + 4m + 6n^{**3} + 11n^{**2} + 6n \\
& + 1) + 3A*b*d*n^{**2}*x*x^{**}(2*n)*(e*x)^{**}/(m^{**4} + 6m^{**3}*n + 4m^{**3} + 11m^{** \\
& 2*n^{**2} + 18m^{**2}*n + 6m^{**2} + 6m*n^{**3} + 22m*n^{**2} + 18m*n + 4m + 6n^{**3} \\
& + 11n^{**2} + 6n + 1) + 4A*b*d*n*x*x^{**}(2*n)*(e*x)^{**}/(m^{**4} + 6m^{**3}*n + 4m \\
& **3 + 11m^{**2}*n^{**2} + 18m^{**2}*n + 6m^{**2} + 6m*n^{**3} + 22m*n^{**2} + 18m*n + 4 \\
& *m + 6n^{**3} + 11n^{**2} + 6n + 1) + A*b*d*x*x^{**}(2*n)*(e*x)^{**}/(m^{**4} + 6m^{**3} \\
& *n + 4m^{**3} + 11m^{**2}*n^{**2} + 18m^{**2}*n + 6m^{**2} + 6m*n^{**3} + 22m*n^{**2} + 18 \\
& *m*n + 4m + 6n^{**3} + 11n^{**2} + 6n + 1) + B*a*c*m^{**3}*x*x^{**n}*(e*x)^{**}/(m^{**4} \\
& + 6m^{**3}*n + 4m^{**3} + 11m^{**2}*n^{**2} + 18m^{**2}*n + 6m^{**2} + 6m*n^{**3} + 22m* \\
& n^{**2} + 18m*n + 4m + 6n^{**3} + 11n^{**2} + 6n + 1) + 5B*a*c*m^{**2}*n*x*x^{**n}*(\\
& e*x)^{**}/(m^{**4} + 6m^{**3}*n + 4m^{**3} + 11m^{**2}*n^{**2} + 18m^{**2}*n + 6m^{**2} + 6m \\
& *n^{**3} + 22m*n^{**2} + 18m*n + 4m + 6n^{**3} + 11n^{**2} + 6n + 1) + 3B*a*c*m* \\
& *2*x*x^{**n}*(e*x)^{**}/(m^{**4} + 6m^{**3}*n + 4m^{**3} + 11m^{**2}*n^{**2} + 18m^{**2}*n + 6 \\
& *m^{**2} + 6m*n^{**3} + 22m*n^{**2} + 18m*n + 4m + 6n^{**3} + 11n^{**2} + 6n + 1) + \\
& 6B*a*c*m*n^{**2}*x*x^{**n}*(e*x)^{**}/(m^{**4} + 6m^{**3}*n + 4m^{**3} + 11m^{**2}*n^{**2} + \\
& 18m^{**2}*n + 6m^{**2} + 6m*n^{**3} + 22m*n^{**2} + 18m*n + 4m + 6n^{**3} + 11n^{**2} \\
& + 6n + 1) + 10B*a*c*m*n*x*x^{**n}*(e*x)^{**}/(m^{**4} + 6m^{**3}*n + 4m^{**3} + 11m \\
& **2*n^{**2} + 18m^{**2}*n + 6m^{**2} + 6m*n^{**3} + 22m*n^{**2} + 18m*n + 4m + 6n^{** \\
& 3 + 11n^{**2} + 6n + 1) + 3B*a*c*m*x*x^{**n}*(e*x)^{**}/(m^{**4} + 6m^{**3}*n + 4m^{** \\
& 3 + 11m^{**2}*n^{**2} + 18m^{**2}*n + 6m^{**2} + 6m*n^{**3} + 22m*n^{**2} + 18m*n + 4m \\
& + 6n^{**3} + 11n^{**2} + 6n + 1) + 6B*a*c*n^{**2}*x*x^{**n}*(e*x)^{**}/(m^{**4} + 6m^{** \\
& 3*n + 4m^{**3} + 11m^{**2}*n^{**2} + 18m^{**2}*n + 6m^{**2} + 6m*n^{**3} + 22m*n^{**2} + 1 \\
& 8m*n + 4m + 6n^{**3} + 11n^{**2} + 6n + 1) + 5B*a*c*n*x*x^{**n}*(e*x)^{**}/(m^{**4} \\
& + 6m^{**3}*n + 4m^{**3} + 11m^{**2}*n^{**2} + 18m^{**2}*n + 6m^{**2} + 6m*n^{**3} + 22m* \\
& n^{**2} + 18m*n + 4m + 6n^{**3} + 11n^{**2} + 6n + 1) + B*a*c*x*x^{**n}*(e*x)^{**}/(\\
& m^{**4} + 6m^{**3}*n + 4m^{**3} + 11m^{**2}*n^{**2} + 18m^{**2}*n + 6m^{**2} + 6m*n^{**3} + 2 \\
& 2m*n^{**2} + 18m*n + 4m + 6n^{**3} + 11n^{**2} + 6n + 1) + B*a*d*m^{**3}*x*x^{**}(2* \\
& n)*(e*x)^{**}/(m^{**4} + 6m^{**3}*n + 4m^{**3} + 11m^{**2}*n^{**2} + 18m^{**2}*n + 6m^{**2} + \\
& 6m*n^{**3} + 22m*n^{**2} + 18m*n + 4m + 6n^{**3} + 11n^{**2} + 6n + 1) + 4B*a* \\
& d*m^{**2}*n*x*x^{**}(2*n)*(e*x)^{**}/(m^{**4} + 6m^{**3}*n + 4m^{**3} + 11m^{**2}*n^{**2} + 18* \\
& m^{**2}*n + 6m^{**2} + 6m*n^{**3} + 22m*n^{**2} + 18m*n + 4m + 6n^{**3} + 11n^{**2} + \\
& 6n + 1) + 3B*a*d*m^{**2}*x*x^{**}(2*n)*(e*x)^{**}/(m^{**4} + 6m^{**3}*n + 4m^{**3} + 11* \\
& m^{**2}*n^{**2} + 18m^{**2}*n + 6m^{**2} + 6m*n^{**3} + 22m*n^{**2} + 18m*n + 4m + 6n* \\
& *3 + 11n^{**2} + 6n + 1) + 3B*a*d*m*n^{**2}*x*x^{**}(2*n)*(e*x)^{**}/(m^{**4} + 6m^{**3} \\
& *n + 4m^{**3} + 11m^{**2}*n^{**2} + 18m^{**2}*n + 6m^{**2} + 6m*n^{**3} + 22m*n^{**2} + 18 \\
& *m*n + 4m + 6n^{**3} + 11n^{**2} + 6n + 1) + 8B*a*d*m*n*x*x^{**}(2*n)*(e*x)^{**}/ \\
& (m^{**4} + 6m^{**3}*n + 4m^{**3} + 11m^{**2}*n^{**2} + 18m^{**2}*n + 6m^{**2} + 6m*n^{**3} + \\
& 22m*n^{**2} + 18m*n + 4m + 6n^{**3} + 11n^{**2} + 6n + 1) + 3B*a*d*m*x*x^{**}(2* \\
& n)*(e*x)^{**}/(m^{**4} + 6m^{**3}*n + 4m^{**3} + 11m^{**2}*n^{**2} + 18m^{**2}*n + 6m^{**2} +
\end{aligned}$$

$6m^{**3}n + 4m^{**3} + 11m^{**2}n^{**2} + 18m^{**2}n + 6m^{**2} + 6m*n^{**3} + 22m*n^{**2} + 18m*n + 4m + 6n^{**3} + 11n^{**2} + 6n + 1$), True))

Maxima [A] (verification not implemented)

none

Time = 0.21 (sec) , antiderivative size = 200, normalized size of antiderivative = 1.85

$$\int (ex)^m (a + bx^n) (A + Bx^n) (c + dx^n) dx$$

$$= \frac{Bbde^m x e^{(m \log(x) + 3n \log(x))}}{m + 3n + 1} + \frac{Bbce^m x e^{(m \log(x) + 2n \log(x))}}{m + 2n + 1} + \frac{Bade^m x e^{(m \log(x) + 2n \log(x))}}{m + 2n + 1}$$

$$+ \frac{Abde^m x e^{(m \log(x) + 2n \log(x))}}{m + 2n + 1} + \frac{Bace^m x e^{(m \log(x) + n \log(x))}}{m + n + 1}$$

$$+ \frac{Abce^m x e^{(m \log(x) + n \log(x))}}{m + n + 1} + \frac{Aade^m x e^{(m \log(x) + n \log(x))}}{m + n + 1} + \frac{(ex)^{m+1} Aac}{e(m + 1)}$$

[In] integrate((e*x)^m*(a+b*x^n)*(A+B*x^n)*(c+d*x^n),x, algorithm="maxima")

[Out] B*b*d*e^m*x*e^(m*log(x) + 3*n*log(x))/(m + 3*n + 1) + B*b*c*e^m*x*e^(m*log(x) + 2*n*log(x))/(m + 2*n + 1) + B*a*d*e^m*x*e^(m*log(x) + 2*n*log(x))/(m + 2*n + 1) + A*b*d*e^m*x*e^(m*log(x) + 2*n*log(x))/(m + 2*n + 1) + B*a*c*e^m*x*e^(m*log(x) + n*log(x))/(m + n + 1) + A*b*c*e^m*x*e^(m*log(x) + n*log(x))/(m + n + 1) + A*a*d*e^m*x*e^(m*log(x) + n*log(x))/(m + n + 1) + (e*x)^(m + 1)*A*a*c/(e*(m + 1))

Giac [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 3764 vs. 2(108) = 216.

Time = 0.30 (sec) , antiderivative size = 3764, normalized size of antiderivative = 34.85

$$\int (ex)^m (a + bx^n) (A + Bx^n) (c + dx^n) dx = \text{Too large to display}$$

[In] integrate((e*x)^m*(a+b*x^n)*(A+B*x^n)*(c+d*x^n),x, algorithm="giac")

[Out] (B*b*d*m^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 3*B*b*d*m^2*n*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 2*B*b*d*m*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + B*b*c*m^3*x*x^(2*n)*e^(m*log(e) + m*log(x)) + B*a*d*m^3*x*x^(2*n)*e^(m*log(e) + m*log(x)) + A*b*d*m^3*x*x^(2*n)*e^(m*log(e) + m*log(x)) + B*b*d*m^3*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 4*B*b*c*m^2*n*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 4*B*a*d*m^2*n*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 4*A*b*d*m^2*n*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 3*B*b*d*m^2*n*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 3*B*b*c*m*n^2*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 3*B*a*d*m*n^2*x*x^(

$x)) + 6*B*b*d*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 6*B*a*c*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 6*A*b*c*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3*B*b*c*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 6*A*a*d*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3*B*a*d*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3*A*b*d*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2*B*b*d*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3*A*a*c*m^2*x*e^{(m*\log(e) + m*\log(x))} + 3*B*a*c*m^2*x*e^{(m*\log(e) + m*\log(x))} + 3*A*b*c*m^2*x*e^{(m*\log(e) + m*\log(x))} + 3*B*b*c*m^2*x*e^{(m*\log(e) + m*\log(x))} + 3*A*a*d*m^2*x*e^{(m*\log(e) + m*\log(x))} + 3*B*a*d*m^2*x*e^{(m*\log(e) + m*\log(x))} + 3*A*b*d*m^2*x*e^{(m*\log(e) + m*\log(x))} + 3*B*b*d*m^2*x*e^{(m*\log(e) + m*\log(x))} + 12*A*a*c*m*n*x*e^{(m*\log(e) + m*\log(x))} + 10*B*a*c*m*n*x*e^{(m*\log(e) + m*\log(x))} + 10*A*b*c*m*n*x*e^{(m*\log(e) + m*\log(x))} + 8*B*b*c*m*n*x*e^{(m*\log(e) + m*\log(x))} + 10*A*a*d*m*n*x*e^{(m*\log(e) + m*\log(x))} + 8*B*a*d*m*n*x*e^{(m*\log(e) + m*\log(x))} + 8*A*b*d*m*n*x*e^{(m*\log(e) + m*\log(x))} + 6*B*b*d*m*n*x*e^{(m*\log(e) + m*\log(x))} + 11*A*a*c*n^2*x*e^{(m*\log(e) + m*\log(x))} + 6*B*a*c*n^2*x*e^{(m*\log(e) + m*\log(x))} + 6*A*b*c*n^2*x*e^{(m*\log(e) + m*\log(x))} + 3*B*b*c*n^2*x*e^{(m*\log(e) + m*\log(x))} + 6*A*a*d*n^2*x*e^{(m*\log(e) + m*\log(x))} + 3*B*a*d*n^2*x*e^{(m*\log(e) + m*\log(x))} + 3*A*b*d*n^2*x*e^{(m*\log(e) + m*\log(x))} + 2*B*b*d*n^2*x*e^{(m*\log(e) + m*\log(x))} + 3*B*b*d*m*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*b*d*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*b*c*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*a*d*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3*A*b*d*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*b*d*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 4*B*b*c*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 4*B*a*d*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 4*A*b*d*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*b*d*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*a*c*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3*A*b*c*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3*B*b*c*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3*A*a*d*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3*A*b*d*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3*B*b*d*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5*B*a*c*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5*A*b*c*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 4*B*b*c*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5*A*a*d*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 4*B*a*d*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 4*A*b*d*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3*B*b*d*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3*A*a*c*m*x*e^{(m*\log(e) + m*\log(x))} + 3*B*a*c*m*x*e^{(m*\log(e) + m*\log(x))} + 3*A*b*c*m*x*e^{(m*\log(e) + m*\log(x))} + 3*B*b*c*m*x*e^{(m*\log(e) + m*\log(x))} + 3*A*a*d*m*x*e^{(m*\log(e) + m*\log(x))} + 3*B*a*d*m*x*e^{(m*\log(e) + m*\log(x))} + 3*A*b*d*m*x*e^{(m*\log(e) + m*\log(x))} + 3*B*b*d*m*x*e^{(m*\log(e) + m*\log(x))} + 6*A*a*c*n*x*e^{(m*\log(e) + m*\log(x))} + 5*B*a*c*n*x*e^{(m*\log(e) + m*\log(x))} + 5*A*b*c*n*x*e^{(m*\log(e) + m*\log(x))} + m*\log(x)) + 4*B*b*c*n*x*e^{(m*\log(e) + m*\log(x))} + 5*A*a*d*n*x*e^{(m*\log(e) + m*\log(x))} + m*\log(x)) + 4*B*a*d*n*x*e^{(m*\log(e) + m*\log(x))} + 4*A*b*d*n*x*e^{(m*\log(e) + m*\log(x))} + m*\log(x)) + 3*B*b*d*n*x*e^{(m*\log(e) + m*\log(x))} + B*b*d*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + B*b*c*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + B*a*d*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + A*b*d*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + B*b*d*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + B*a*c*x*x^n*e^{(m*\log(e) + m*\log(x))} + A*b*c*x*x^n*e^{(m*\log(e) + m*\log(x))} + B*b*c*x*x^n*e^{(m*\log(e) + m*\log(x))} + A*a*d*x*x^n*e^{(m*\log(e) + m*\log(x))} + B*a*d*x*x^n*e^{(m*\log(e) + m*\log(x))}$

) + A*b*d*x*x^n*e^(m*log(e) + m*log(x)) + B*b*d*x*x^n*e^(m*log(e) + m*log(x)) + A*a*c*x*x*e^(m*log(e) + m*log(x)) + B*a*c*x*x*e^(m*log(e) + m*log(x)) + A*b*c*x*x*e^(m*log(e) + m*log(x)) + B*b*c*x*x*e^(m*log(e) + m*log(x)) + A*a*d*x*x*e^(m*log(e) + m*log(x)) + B*a*d*x*x*e^(m*log(e) + m*log(x)) + A*b*d*x*x*e^(m*log(e) + m*log(x)) + B*b*d*x*x*e^(m*log(e) + m*log(x)))/(m^4 + 6*m^3*n + 11*m^2*n^2 + 6*m*n^3 + 4*m^3 + 18*m^2*n + 22*m*n^2 + 6*n^3 + 6*m^2 + 18*m*n + 11*n^2 + 4*m + 6*n + 1)

Mupad [B] (verification not implemented)

Time = 9.13 (sec) , antiderivative size = 271, normalized size of antiderivative = 2.51

$$\int (ex)^m (a + bx^n) (A + Bx^n) (c + dx^n) dx$$

$$= \frac{Aacx(ex)^m}{m+1} + \frac{xx^{2n}(ex)^m(Abd + Bad + Bbc)(m^2 + 4mn + 2m + 3n^2 + 4n + 1)}{m^3 + 6m^2n + 3m^2 + 11mn^2 + 12mn + 3m + 6n^3 + 11n^2 + 6n + 1}$$

$$+ \frac{xx^n(ex)^m(Aad + Abc + Bac)(m^2 + 5mn + 2m + 6n^2 + 5n + 1)}{m^3 + 6m^2n + 3m^2 + 11mn^2 + 12mn + 3m + 6n^3 + 11n^2 + 6n + 1}$$

$$+ \frac{Bbdxx^{3n}(ex)^m(m^2 + 3mn + 2m + 2n^2 + 3n + 1)}{m^3 + 6m^2n + 3m^2 + 11mn^2 + 12mn + 3m + 6n^3 + 11n^2 + 6n + 1}$$

[In] int((e*x)^m*(A + B*x^n)*(a + b*x^n)*(c + d*x^n),x)

[Out] (A*a*c*x*(e*x)^m)/(m + 1) + (x*x^(2*n)*(e*x)^m*(A*b*d + B*a*d + B*b*c)*(2*m + 4*n + 4*m*n + m^2 + 3*n^2 + 1))/(3*m + 6*n + 12*m*n + 11*m*n^2 + 6*m^2*n + 3*m^2 + m^3 + 11*n^2 + 6*n^3 + 1) + (x*x^n*(e*x)^m*(A*a*d + A*b*c + B*a*c)*(2*m + 5*n + 5*m*n + m^2 + 6*n^2 + 1))/(3*m + 6*n + 12*m*n + 11*m*n^2 + 6*m^2*n + 3*m^2 + m^3 + 11*n^2 + 6*n^3 + 1) + (B*b*d*x*x^(3*n)*(e*x)^m*(2*m + 3*n + 3*m*n + m^2 + 2*n^2 + 1))/(3*m + 6*n + 12*m*n + 11*m*n^2 + 6*m^2*n + 3*m^2 + m^3 + 11*n^2 + 6*n^3 + 1)

3.4 $\int (ex)^m (A + Bx^n) (c + dx^n) dx$

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Optimal result

Integrand size = 20, antiderivative size = 66

$$\int (ex)^m (A + Bx^n) (c + dx^n) dx = \frac{(Bc + Ad)x^{1+n}(ex)^m}{1 + m + n} + \frac{Bdx^{1+2n}(ex)^m}{1 + m + 2n} + \frac{Ac(ex)^{1+m}}{e(1 + m)}$$

[Out] (A*d+B*c)*x^(1+n)*(e*x)^m/(1+m+n)+B*d*x^(1+2*n)*(e*x)^m/(1+m+2*n)+A*c*(e*x)^(1+m)/e/(1+m)

Rubi [A] (verified)

Time = 0.03 (sec) , antiderivative size = 66, normalized size of antiderivative = 1.00, number of steps used = 6, number of rules used = 3, $\frac{\text{number of rules}}{\text{integrand size}} = 0.150$, Rules used = {459, 20, 30}

$$\int (ex)^m (A + Bx^n) (c + dx^n) dx = \frac{x^{n+1}(ex)^m(Ad + Bc)}{m + n + 1} + \frac{Ac(ex)^{m+1}}{e(m + 1)} + \frac{Bdx^{2n+1}(ex)^m}{m + 2n + 1}$$

[In] Int[(e*x)^m*(A + B*x^n)*(c + d*x^n),x]

[Out] ((B*c + A*d)*x^(1 + n)*(e*x)^m)/(1 + m + n) + (B*d*x^(1 + 2*n)*(e*x)^m)/(1 + m + 2*n) + (A*c*(e*x)^(1 + m))/(e*(1 + m))

Rule 20

Int[(u_.)*((a_.)*(v_))^(m_)*((b_.)*(v_))^(n_), x_Symbol] := Dist[b^IntPart[n]*((b*v)^FracPart[n]/(a^IntPart[n]*(a*v)^FracPart[n])), Int[u*(a*v)^(m + n), x], x] /; FreeQ[{a, b, m, n}, x] && !IntegerQ[m] && !IntegerQ[n] && !IntegerQ[m + n]

Rule 30

```
Int[(x_)^(m_.), x_Symbol] := Simp[x^(m + 1)/(m + 1), x] /; FreeQ[m, x] && NeQ[m, -1]
```

Rule 459

```
Int[((e_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_.)*((c_) + (d_.)*(x_)^(n_))^(q_.), x_Symbol] := Int[ExpandIntegrand[(e*x)^m*(a + b*x^n)^p*(c + d*x^n)^q, x], x] /; FreeQ[{a, b, c, d, e, m, n}, x] && NeQ[b*c - a*d, 0] && IGtQ[p, 0] && IGtQ[q, 0]
```

Rubi steps

$$\begin{aligned}
 \text{integral} &= \int (Ac(ex)^m + (Bc + Ad)x^n(ex)^m + Bdx^{2n}(ex)^m) dx \\
 &= \frac{Ac(ex)^{1+m}}{e(1+m)} + (Bd) \int x^{2n}(ex)^m dx + (Bc + Ad) \int x^n(ex)^m dx \\
 &= \frac{Ac(ex)^{1+m}}{e(1+m)} + (Bdx^{-m}(ex)^m) \int x^{m+2n} dx + ((Bc + Ad)x^{-m}(ex)^m) \int x^{m+n} dx \\
 &= \frac{(Bc + Ad)x^{1+n}(ex)^m}{1+m+n} + \frac{Bdx^{1+2n}(ex)^m}{1+m+2n} + \frac{Ac(ex)^{1+m}}{e(1+m)}
 \end{aligned}$$

Mathematica [A] (verified)

Time = 0.10 (sec) , antiderivative size = 49, normalized size of antiderivative = 0.74

$$\int (ex)^m (A + Bx^n) (c + dx^n) dx = x(ex)^m \left(\frac{Ac}{1+m} + \frac{(Bc + Ad)x^n}{1+m+n} + \frac{Bdx^{2n}}{1+m+2n} \right)$$

```
[In] Integrate[(e*x)^m*(A + B*x^n)*(c + d*x^n),x]
```

```
[Out] x*(e*x)^m*((A*c)/(1 + m) + ((B*c + A*d)*x^n)/(1 + m + n) + (B*d*x^(2*n))/(1 + m + 2*n))
```

Maple [C] (warning: unable to verify)

Result contains higher order function than in optimal. Order 9 vs. order 3.

Time = 0.17 (sec) , antiderivative size = 229, normalized size of antiderivative = 3.47

method	result
risch	$\frac{x(Bdm^2x^{2n} + Bdmnx^{2n} + Adm^2x^n + 2Admnx^n + Bcm^2x^n + 2Bcmnx^n + 2Bx^{2n}dm + Bx^{2n}dn + Ac m^2 + 3Ac mn + 2Ac n^2 + 2Ac m n^2 + 2Ac m^2 n^2)}{(1+m)(1+m+n)(1+m+2n)}$
parallelrisch	$\frac{2Ax x^n (ex)^m dn + 3Ax (ex)^m cmn + Ax x^n (ex)^m d m^2 + 2Bx x^{2n} (ex)^m dm + Bx x^{2n} (ex)^m dn + Bx x^n (ex)^m c m^2 + 2Bx x^n (ex)^m c m n^2 + 2Bx x^n (ex)^m c n^2}{(1+m)(1+m+n)(1+m+2n)}$

[In] `int((e*x)^m*(A+B*x^n)*(c+d*x^n),x,method=_RETURNVERBOSE)`

[Out] $x*(B*d*m^2*(x^n)^2+B*d*m*n*(x^n)^2+A*d*m^2*x^n+2*A*d*m*n*x^n+B*c*m^2*x^n+2*B*c*m*n*x^n+2*B*(x^n)^2*d*m+B*(x^n)^2*d*n+A*c*m^2+3*A*c*m*n+2*A*c*n^2+2*A*x^n*d*m+2*A*x^n*d*n+2*B*x^n*c*m+2*B*x^n*c*n+d*(x^n)^2*B+2*A*c*m+3*A*c*n+d*x^n*A+c*B*x^n+A*c)/(1+m)/(1+m+n)/(1+m+2n)*e^m*x^m*\exp(1/2*I*csgn(I*e*x)*Pi*m*(csgn(I*e*x)-csgn(I*x))*(-csgn(I*e*x)+csgn(I*e)))$

Fricas [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 185 vs. $2(66) = 132$.

Time = 0.27 (sec) , antiderivative size = 185, normalized size of antiderivative = 2.80

$$\int (ex)^m (A + Bx^n) (c + dx^n) dx = \frac{(Bdm^2 + 2Bdm + Bd + (Bdm + Bd)n)xx^{2n}e^{(m\log(e)+m\log(x))} + ((Bc + Ad)m^2 + Bc + Ad + 2(Bc + Ad)m + 2Acm^2 + 2Acn^2 + 2Ac m n^2 + 2Ac m^2 n^2)}{m^3 + 2(m + 1)n^2}$$

[In] `integrate((e*x)^m*(A+B*x^n)*(c+d*x^n),x, algorithm="fricas")`

[Out] $((B*d*m^2 + 2*B*d*m + B*d + (B*d*m + B*d)*n)*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + ((B*c + A*d)*m^2 + B*c + A*d + 2*(B*c + A*d)*m + 2*(B*c + A*d + (B*c + A*d)*m)*n)*x*x^n*e^{(m*\log(e) + m*\log(x))} + (A*c*m^2 + 2*A*c*n^2 + 2*A*c*m + A*c + 3*(A*c*m + A*c)*n)*x*e^{(m*\log(e) + m*\log(x))})/(m^3 + 2*(m + 1)*n^2 + 3*m^2 + 3*(m^2 + 2*m + 1)*n + 3*m + 1)$

Sympy [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 1498 vs. $2(58) = 116$.

Time = 1.66 (sec) , antiderivative size = 1498, normalized size of antiderivative = 22.70

$$\int (ex)^m (A + Bx^n) (c + dx^n) dx = \text{Too large to display}$$

[In] `integrate((e*x)**m*(A+B*x**n)*(c+d*x**n),x)`

[Out] `Piecewise(((A + B)*(c + d)*log(x)/e, Eq(m, -1) & Eq(n, 0)), ((A*c*log(x) + A*d*x**n/n + B*c*x**n/n + B*d*x**(2*n))/(2*n))/e, Eq(m, -1)), (A*c*Piecewise`

```

((0**(-2*n - 1)*x, Eq(e, 0)), (Piecewise((-1/(2*n*(e*x)**(2*n)), Ne(n, 0)),
(log(e*x), True))/e, True)) + A*d*Piecewise((-x*x**n*(e*x)**(-2*n - 1)/n,
Ne(n, 0)), (x*x**n*(e*x)**(-2*n - 1)*log(x), True)) + B*c*Piecewise((-x*x**
n*(e*x)**(-2*n - 1)/n, Ne(n, 0)), (x*x**n*(e*x)**(-2*n - 1)*log(x), True))
+ B*d*x*x**(2*n)*(e*x)**(-2*n - 1)*log(x), Eq(m, -2*n - 1)), (A*c*Piecewise
((0**(-n - 1)*x, Eq(e, 0)), (Piecewise((-1/(n*(e*x)**n), Ne(n, 0)), (log(e*
x), True))/e, True)) + A*d*x*x**n*(e*x)**(-n - 1)*log(x) + B*c*x*x**n*(e*x)
**(-n - 1)*log(x) + B*d*Piecewise((x*x**(2*n)*(e*x)**(-n - 1)/n, Ne(n, 0)),
(x*x**(2*n)*(e*x)**(-n - 1)*log(x), True)), Eq(m, -n - 1)), (A*c*m**2*x*(e
*x)**m/(m**3 + 3*m**2*n + 3*m**2 + 2*m*n**2 + 6*m*n + 3*m + 2*n**2 + 3*n +
1) + 3*A*c*m*n*x*(e*x)**m/(m**3 + 3*m**2*n + 3*m**2 + 2*m*n**2 + 6*m*n + 3*
m + 2*n**2 + 3*n + 1) + 2*A*c*m*x*(e*x)**m/(m**3 + 3*m**2*n + 3*m**2 + 2*m*
n**2 + 6*m*n + 3*m + 2*n**2 + 3*n + 1) + 2*A*c*n**2*x*(e*x)**m/(m**3 + 3*m*
**2*n + 3*m**2 + 2*m*n**2 + 6*m*n + 3*m + 2*n**2 + 3*n + 1) + 3*A*c*n*x*(e*x)
)**m/(m**3 + 3*m**2*n + 3*m**2 + 2*m*n**2 + 6*m*n + 3*m + 2*n**2 + 3*n + 1)
+ A*c*x*(e*x)**m/(m**3 + 3*m**2*n + 3*m**2 + 2*m*n**2 + 6*m*n + 3*m + 2*n*
**2 + 3*n + 1) + A*d*m**2*x*x**n*(e*x)**m/(m**3 + 3*m**2*n + 3*m**2 + 2*m*n*
**2 + 6*m*n + 3*m + 2*n**2 + 3*n + 1) + 2*A*d*m*n*x*x**n*(e*x)**m/(m**3 + 3*
m**2*n + 3*m**2 + 2*m*n**2 + 6*m*n + 3*m + 2*n**2 + 3*n + 1) + 2*A*d*m*x*x*
**n*(e*x)**m/(m**3 + 3*m**2*n + 3*m**2 + 2*m*n**2 + 6*m*n + 3*m + 2*n**2 + 3
*n + 1) + 2*A*d*n*x*x**n*(e*x)**m/(m**3 + 3*m**2*n + 3*m**2 + 2*m*n**2 + 6*
m*n + 3*m + 2*n**2 + 3*n + 1) + A*d*x*x**n*(e*x)**m/(m**3 + 3*m**2*n + 3*m*
**2 + 2*m*n**2 + 6*m*n + 3*m + 2*n**2 + 3*n + 1) + B*c*m**2*x*x**n*(e*x)**m/
(m**3 + 3*m**2*n + 3*m**2 + 2*m*n**2 + 6*m*n + 3*m + 2*n**2 + 3*n + 1) + 2*
B*c*m*n*x*x**n*(e*x)**m/(m**3 + 3*m**2*n + 3*m**2 + 2*m*n**2 + 6*m*n + 3*m
+ 2*n**2 + 3*n + 1) + 2*B*c*m*x*x**n*(e*x)**m/(m**3 + 3*m**2*n + 3*m**2 + 2
*m*n**2 + 6*m*n + 3*m + 2*n**2 + 3*n + 1) + 2*B*c*n*x*x**n*(e*x)**m/(m**3 +
3*m**2*n + 3*m**2 + 2*m*n**2 + 6*m*n + 3*m + 2*n**2 + 3*n + 1) + B*c*x*x**
n*(e*x)**m/(m**3 + 3*m**2*n + 3*m**2 + 2*m*n**2 + 6*m*n + 3*m + 2*n**2 + 3*
n + 1) + B*d*m**2*x*x**(2*n)*(e*x)**m/(m**3 + 3*m**2*n + 3*m**2 + 2*m*n**2
+ 6*m*n + 3*m + 2*n**2 + 3*n + 1) + B*d*m*n*x*x**(2*n)*(e*x)**m/(m**3 + 3*m
**2*n + 3*m**2 + 2*m*n**2 + 6*m*n + 3*m + 2*n**2 + 3*n + 1) + 2*B*d*m*x*x**
(2*n)*(e*x)**m/(m**3 + 3*m**2*n + 3*m**2 + 2*m*n**2 + 6*m*n + 3*m + 2*n**2
+ 3*n + 1) + B*d*n*x*x**(2*n)*(e*x)**m/(m**3 + 3*m**2*n + 3*m**2 + 2*m*n**2
+ 6*m*n + 3*m + 2*n**2 + 3*n + 1) + B*d*x*x**(2*n)*(e*x)**m/(m**3 + 3*m**2
*n + 3*m**2 + 2*m*n**2 + 6*m*n + 3*m + 2*n**2 + 3*n + 1), True))

```

Maxima [A] (verification not implemented)

none

Time = 0.20 (sec) , antiderivative size = 91, normalized size of antiderivative = 1.38

$$\int (ex)^m (A + Bx^n) (c + dx^n) dx = \frac{Bde^m x e^{(m \log(x) + 2n \log(x))}}{m + 2n + 1} + \frac{Bce^m x e^{(m \log(x) + n \log(x))}}{m + n + 1} + \frac{Ade^m x e^{(m \log(x) + n \log(x))}}{m + n + 1} + \frac{(ex)^{m+1} Ac}{e(m + 1)}$$

[In] integrate((e*x)^m*(A+B*x^n)*(c+d*x^n),x, algorithm="maxima")

```
[Out] B*d*e^m*x*e^(m*log(x) + 2*n*log(x))/(m + 2*n + 1) + B*c*e^m*x*e^(m*log(x) + n*log(x))/(m + n + 1) + A*d*e^m*x*e^(m*log(x) + n*log(x))/(m + n + 1) + (e*x)^(m + 1)*A*c/(e*(m + 1))
```

Giac [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 763 vs. 2(66) = 132.

Time = 0.28 (sec) , antiderivative size = 763, normalized size of antiderivative = 11.56

$$\int (ex)^m (A + Bx^n) (c + dx^n) dx = \text{Too large to display}$$

[In] integrate((e*x)^m*(A+B*x^n)*(c+d*x^n),x, algorithm="giac")

```
[Out] (B*d*m^2*x*x^(2*n)*e^(m*log(e) + m*log(x)) + B*d*m*n*x*x^(2*n)*e^(m*log(e) + m*log(x)) + B*c*m^2*x*x^n*e^(m*log(e) + m*log(x)) + A*d*m^2*x*x^n*e^(m*log(e) + m*log(x)) + B*d*m^2*x*x^n*e^(m*log(e) + m*log(x)) + 2*B*c*m*n*x*x^n*e^(m*log(e) + m*log(x)) + 2*A*d*m*n*x*x^n*e^(m*log(e) + m*log(x)) + B*d*m*n*x*x^n*e^(m*log(e) + m*log(x)) + A*c*m^2*x*e^(m*log(e) + m*log(x)) + B*c*m^2*x*e^(m*log(e) + m*log(x)) + A*d*m^2*x*e^(m*log(e) + m*log(x)) + B*d*m^2*x*e^(m*log(e) + m*log(x)) + 3*A*c*m*n*x*e^(m*log(e) + m*log(x)) + 2*B*c*m*n*x*e^(m*log(e) + m*log(x)) + 2*A*d*m*n*x*e^(m*log(e) + m*log(x)) + B*d*m*n*x*e^(m*log(e) + m*log(x)) + 2*A*c*n^2*x*e^(m*log(e) + m*log(x)) + 2*B*d*m*x*x^(2*n)*e^(m*log(e) + m*log(x)) + B*d*n*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 2*B*c*m*x*x^n*e^(m*log(e) + m*log(x)) + 2*A*d*m*x*x^n*e^(m*log(e) + m*log(x)) + 2*B*d*m*x*x^n*e^(m*log(e) + m*log(x)) + 2*B*c*n*x*x^n*e^(m*log(e) + m*log(x)) + 2*A*d*n*x*x^n*e^(m*log(e) + m*log(x)) + B*d*n*x*x^n*e^(m*log(e) + m*log(x)) + 2*A*c*m*x*e^(m*log(e) + m*log(x)) + 2*B*c*m*x*e^(m*log(e) + m*log(x)) + 2*A*d*m*x*e^(m*log(e) + m*log(x)) + 2*B*d*m*x*e^(m*log(e) + m*log(x)) + 3*A*c*n*x*e^(m*log(e) + m*log(x)) + 2*B*c*n*x*e^(m*log(e) + m*log(x)) + 2*A*d*n*x*e^(m*log(e) + m*log(x)) + B*d*n*x*e^(m*log(e) + m*log(x)) + B*d*x*x^(2*n)*e^(m*log(e) + m*log(x)) + B*c*x*x^n*e^(m*log(e) + m*log(x)) +
```

$A*d*x*x^n*e^{(m*\log(e) + m*\log(x))} + B*d*x*x^n*e^{(m*\log(e) + m*\log(x))} + A*c*x*e^{(m*\log(e) + m*\log(x))} + B*c*x*e^{(m*\log(e) + m*\log(x))} + A*d*x*e^{(m*\log(e) + m*\log(x))} + B*d*x*e^{(m*\log(e) + m*\log(x))})/(m^3 + 3*m^2*n + 2*m*n^2 + 3*m^2 + 6*m*n + 2*n^2 + 3*m + 3*n + 1)$

Mupad [B] (verification not implemented)

Time = 9.06 (sec) , antiderivative size = 91, normalized size of antiderivative = 1.38

$$\int (ex)^m (A + Bx^n) (c + dx^n) dx = (ex)^m \left(\frac{Acx}{m+1} + \frac{xx^n (Ad + Bc) (m + 2n + 1)}{m^2 + 3mn + 2m + 2n^2 + 3n + 1} + \frac{Bdx^{2n} (m + n + 1)}{m^2 + 3mn + 2m + 2n^2 + 3n + 1} \right)$$

[In] int((e*x)^m*(A + B*x^n)*(c + d*x^n),x)

[Out] (e*x)^m*((A*c*x)/(m + 1) + (x*x^n*(A*d + B*c)*(m + 2*n + 1))/(2*m + 3*n + 3*m*n + m^2 + 2*n^2 + 1) + (B*d*x*x^(2*n)*(m + n + 1))/(2*m + 3*n + 3*m*n + m^2 + 2*n^2 + 1))

3.5 $\int \frac{(ex)^m (A+Bx^n)(c+dx^n)}{a+bx^n} dx$

Optimal result	149
Rubi [A] (verified)	149
Mathematica [A] (verified)	151
Maple [F]	151
Fricas [F]	151
Sympy [C] (verification not implemented)	152
Maxima [F]	152
Giac [F]	153
Mupad [F(-1)]	153

Optimal result

Integrand size = 29, antiderivative size = 120

$$\int \frac{(ex)^m (A + Bx^n) (c + dx^n)}{a + bx^n} dx$$

$$= \frac{Bdx^{1+n}(ex)^m}{b(1+m+n)} + \frac{(bBc + Abd - aBd)(ex)^{1+m}}{b^2e(1+m)}$$

$$+ \frac{(Ab - aB)(bc - ad)(ex)^{1+m} \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{bx^n}{a}\right)}{ab^2e(1+m)}$$

[Out] B*d*x^(1+n)*(e*x)^m/b/(1+m+n)+(A*b*d-B*a*d+B*b*c)*(e*x)^(1+m)/b^2/e/(1+m)+(A*b-B*a)*(-a*d+b*c)*(e*x)^(1+m)*hypergeom([1, (1+m)/n], [(1+m+n)/n], -b*x^n/a)/a/b^2/e/(1+m)

Rubi [A] (verified)

Time = 0.08 (sec) , antiderivative size = 120, normalized size of antiderivative = 1.00, number of steps used = 5, number of rules used = 4, $\frac{\text{number of rules}}{\text{integrand size}} = 0.138$, Rules used = {584, 20, 30, 371}

$$\int \frac{(ex)^m (A + Bx^n) (c + dx^n)}{a + bx^n} dx$$

$$= \frac{(ex)^{m+1}(Ab - aB)(bc - ad) \operatorname{Hypergeometric2F1}\left(1, \frac{m+1}{n}, \frac{m+n+1}{n}, -\frac{bx^n}{a}\right)}{ab^2e(m+1)}$$

$$+ \frac{(ex)^{m+1}(-aBd + Abd + bBc)}{b^2e(m+1)} + \frac{Bdx^{n+1}(ex)^m}{b(m+n+1)}$$

[In] Int[((e*x)^m*(A + B*x^n)*(c + d*x^n))/(a + b*x^n),x]

[Out] $(B*d*x^{(1+n)}*(e*x)^m)/(b*(1+m+n)) + ((b*B*c + A*b*d - a*B*d)*(e*x)^{(1+m)})/(b^2*e*(1+m)) + ((A*b - a*B)*(b*c - a*d)*(e*x)^{(1+m)}*Hypergeometric2F1[1, (1+m)/n, (1+m+n)/n, -((b*x^n)/a)]/(a*b^2*e*(1+m))$

Rule 20

Int[(u_)*((a_)*(v_))^(m_)*((b_)*(v_))^(n_), x_Symbol] := Dist[b^IntPart[n]*((b*v)^FracPart[n]/(a^IntPart[n]*(a*v)^FracPart[n])), Int[u*(a*v)^(m+n), x], x] /; FreeQ[{a, b, m, n}, x] && !IntegerQ[m] && !IntegerQ[n] && !IntegerQ[m+n]

Rule 30

Int[(x_)^(m_), x_Symbol] := Simp[x^(m+1)/(m+1), x] /; FreeQ[m, x] && NeQ[m, -1]

Rule 371

Int[((c_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Simp[a^p*((c*x)^(m+1)/(c*(m+1)))*Hypergeometric2F1[-p, (m+1)/n, (m+1)/n+1, (-b)*(x^n/a)], x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILtQ[p, 0] || GtQ[a, 0])

Rule 584

Int[((g_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_)*((e_) + (f_)*(x_)^(n_))^(r_), x_Symbol] := Int[ExpandIntegrand[(g*x)^m*(a+b*x^n)^p*(c+d*x^n)^q*(e+f*x^n)^r, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n}, x] && IGtQ[p, -2] && IGtQ[q, 0] && IGtQ[r, 0]

Rubi steps

$$\begin{aligned}
 \text{integral} &= \int \left(\frac{(bBc + Abd - aBd)(ex)^m}{b^2} + \frac{Bdx^n(ex)^m}{b} + \frac{(Ab - aB)(bc - ad)(ex)^m}{b^2(a + bx^n)} \right) dx \\
 &= \frac{(bBc + Abd - aBd)(ex)^{1+m}}{b^2e(1+m)} + \frac{(Bd) \int x^n(ex)^m dx}{b} + \frac{((Ab - aB)(bc - ad)) \int \frac{(ex)^m}{a+bx^n} dx}{b^2} \\
 &= \frac{(bBc + Abd - aBd)(ex)^{1+m}}{b^2e(1+m)} \\
 &\quad + \frac{(Ab - aB)(bc - ad)(ex)^{1+m} {}_2F_1\left(1, \frac{1+m}{n}; \frac{1+m+n}{n}; -\frac{bx^n}{a}\right)}{ab^2e(1+m)} \\
 &\quad + \frac{(Bdx^{-m}(ex)^m) \int x^{m+n} dx}{b}
 \end{aligned}$$

$$= \frac{Bdx^{1+n}(ex)^m}{b(1+m+n)} + \frac{(bBc + Abd - aBd)(ex)^{1+m}}{b^2e(1+m)} + \frac{(Ab - aB)(bc - ad)(ex)^{1+m} {}_2F_1\left(1, \frac{1+m}{n}; \frac{1+m+n}{n}; -\frac{bx^n}{a}\right)}{ab^2e(1+m)}$$

Mathematica [A] (verified)

Time = 0.25 (sec) , antiderivative size = 95, normalized size of antiderivative = 0.79

$$\int \frac{(ex)^m (A + Bx^n) (c + dx^n)}{a + bx^n} dx$$

$$= \frac{x(ex)^m \left(\frac{bBc + Abd - aBd}{1+m} + \frac{bBdx^n}{1+m+n} + \frac{(-Ab + aB)(-bc + ad) \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{bx^n}{a}\right)}{a(1+m)} \right)}{b^2}$$

[In] Integrate[((e*x)^m*(A + B*x^n)*(c + d*x^n))/(a + b*x^n),x]

[Out] (x*(e*x)^m*((b*B*c + A*b*d - a*B*d)/(1 + m) + (b*B*d*x^n)/(1 + m + n) + ((-(A*b) + a*B)*(-(b*c) + a*d)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -(b*x^n)/a]))/(a*(1 + m)))/b^2

Maple [F]

$$\int \frac{(ex)^m (A + Bx^n) (c + dx^n)}{a + bx^n} dx$$

[In] int((e*x)^m*(A+B*x^n)*(c+d*x^n)/(a+b*x^n),x)

[Out] int((e*x)^m*(A+B*x^n)*(c+d*x^n)/(a+b*x^n),x)

Fricas [F]

$$\int \frac{(ex)^m (A + Bx^n) (c + dx^n)}{a + bx^n} dx = \int \frac{(Bx^n + A)(dx^n + c)(ex)^m}{bx^n + a} dx$$

[In] integrate((e*x)^m*(A+B*x^n)*(c+d*x^n)/(a+b*x^n),x, algorithm="fricas")

[Out] integral((B*d*x^(2*n) + A*c + (B*c + A*d)*x^n)*(e*x)^m/(b*x^n + a), x)

Sympy [C] (verification not implemented)

Result contains complex when optimal does not.

Time = 4.67 (sec) , antiderivative size = 872, normalized size of antiderivative = 7.27

$$\int \frac{(ex)^m (A + Bx^n) (c + dx^n)}{a + bx^n} dx = \text{Too large to display}$$

[In] integrate((e*x)**m*(A+B*x**n)*(c+d*x**n)/(a+b*x**n),x)

[Out] A*a**(m/n + 1/n)*a**(-m/n - 1 - 1/n)*c*e**m*x**(m + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 1/n)*gamma(m/n + 1/n)/(n**2*gamma(m/n + 1 + 1/n)) + A*a**(m/n + 1/n)*a**(-m/n - 1 - 1/n)*c*e**m*x**(m + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 1/n)*gamma(m/n + 1/n)/(n**2*gamma(m/n + 1 + 1/n)) + A*a**(-m/n - 2 - 1/n)*a**(m/n + 1 + 1/n)*d*e**m*x**(m + n + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 1 + 1/n)*gamma(m/n + 1 + 1/n)/(n**2*gamma(m/n + 2 + 1/n)) + A*a**(-m/n - 2 - 1/n)*a**(m/n + 1 + 1/n)*d*e**m*x**(m + n + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 1 + 1/n)*gamma(m/n + 1 + 1/n)/(n*gamma(m/n + 2 + 1/n)) + A*a**(-m/n - 2 - 1/n)*a**(m/n + 1 + 1/n)*d*e**m*x**(m + n + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 1 + 1/n)*gamma(m/n + 1 + 1/n)/(n**2*gamma(m/n + 2 + 1/n)) + B*a**(-m/n - 3 - 1/n)*a**(m/n + 2 + 1/n)*d*e**m*x**(m + 2*n + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 2 + 1/n)*gamma(m/n + 2 + 1/n)/(n**2*gamma(m/n + 3 + 1/n)) + 2*B*a**(-m/n - 3 - 1/n)*a**(m/n + 2 + 1/n)*d*e**m*x**(m + 2*n + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 2 + 1/n)*gamma(m/n + 2 + 1/n)/(n*gamma(m/n + 3 + 1/n)) + B*a**(-m/n - 3 - 1/n)*a**(m/n + 2 + 1/n)*d*e**m*x**(m + 2*n + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 2 + 1/n)*gamma(m/n + 2 + 1/n)/(n**2*gamma(m/n + 3 + 1/n)) + B*a**(-m/n - 2 - 1/n)*a**(m/n + 1 + 1/n)*c*e**m*x**(m + n + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 1 + 1/n)*gamma(m/n + 1 + 1/n)/(n**2*gamma(m/n + 2 + 1/n)) + B*a**(-m/n - 2 - 1/n)*a**(m/n + 1 + 1/n)*c*e**m*x**(m + n + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 1 + 1/n)*gamma(m/n + 1 + 1/n)/(n*gamma(m/n + 2 + 1/n)) + B*a**(-m/n - 2 - 1/n)*a**(m/n + 1 + 1/n)*c*e**m*x**(m + n + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 1 + 1/n)*gamma(m/n + 1 + 1/n)/(n**2*gamma(m/n + 2 + 1/n))

Maxima [F]

$$\int \frac{(ex)^m (A + Bx^n) (c + dx^n)}{a + bx^n} dx = \int \frac{(Bx^n + A)(dx^n + c)(ex)^m}{bx^n + a} dx$$

[In] integrate((e*x)^m*(A+B*x^n)*(c+d*x^n)/(a+b*x^n),x, algorithm="maxima")

[Out] ((b^2*c*e^m - a*b*d*e^m)*A - (a*b*c*e^m - a^2*d*e^m)*B)*integrate(x^m/(b^3*x^n + a*b^2), x) + (B*b*d*e^m*(m + 1)*x*e^(m*log(x) + n*log(x)) + (A*b*d*e^

$$m*(m + n + 1) + (b*c*e^{m*(m + n + 1)} - a*d*e^{m*(m + n + 1)})*B*x*x^m)/((m^2 + m*(n + 2) + n + 1)*b^2)$$

Giac [F]

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)}{a + bx^n} dx = \int \frac{(Bx^n + A)(dx^n + c)(ex)^m}{bx^n + a} dx$$

[In] integrate((e*x)^m*(A+B*x^n)*(c+d*x^n)/(a+b*x^n),x, algorithm="giac")

[Out] integrate((B*x^n + A)*(d*x^n + c)*(e*x)^m/(b*x^n + a), x)

Mupad [F(-1)]

Timed out.

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)}{a + bx^n} dx = \int \frac{(ex)^m (A + Bx^n)(c + dx^n)}{a + bx^n} dx$$

[In] int(((e*x)^m*(A + B*x^n)*(c + d*x^n))/(a + b*x^n),x)

[Out] int(((e*x)^m*(A + B*x^n)*(c + d*x^n))/(a + b*x^n), x)

3.6 $\int \frac{(ex)^m (A+Bx^n)(c+dx^n)}{(a+bx^n)^2} dx$

Optimal result	154
Rubi [A] (verified)	154
Mathematica [A] (verified)	156
Maple [F]	156
Fricas [F]	156
Sympy [C] (verification not implemented)	156
Maxima [F]	160
Giac [F]	160
Mupad [F(-1)]	160

Optimal result

Integrand size = 29, antiderivative size = 177

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)}{(a + bx^n)^2} dx$$

$$= -\frac{d(Ab(1+m) - aB(1+m+n))(ex)^{1+m}}{ab^2e(1+m)n} + \frac{(Ab - aB)(ex)^{1+m}(c + dx^n)}{aben(a + bx^n)}$$

$$+ \frac{(bc(aB(1+m) - Ab(1+m-n)) + ad(Ab(1+m) - aB(1+m+n)))(ex)^{1+m} \text{Hypergeometric2F1}(1, \dots)}{a^2b^2e(1+m)n}$$

```
[Out] -d*(A*b*(1+m)-a*B*(1+m+n))*(e*x)^(1+m)/a/b^2/e/(1+m)/n+(A*b-B*a)*(e*x)^(1+m)
)*(c+d*x^n)/a/b/e/n/(a+b*x^n)+(b*c*(a*B*(1+m)-A*b*(1+m-n))+a*d*(A*b*(1+m)-a
*B*(1+m+n))*(e*x)^(1+m)*hypergeom([1, (1+m)/n],[(1+m+n)/n],-b*x^n/a)/a^2/b
^2/e/(1+m)/n
```

Rubi [A] (verified)

Time = 0.17 (sec) , antiderivative size = 177, normalized size of antiderivative = 1.00, number of steps used = 3, number of rules used = 3, $\frac{\text{number of rules}}{\text{integrand size}} = 0.103$, Rules used = {608, 470, 371}

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)}{(a + bx^n)^2} dx$$

$$= \frac{(ex)^{m+1} \text{Hypergeometric2F1}\left(1, \frac{m+1}{n}, \frac{m+n+1}{n}, -\frac{bx^n}{a}\right) (bc(aB(m+1) - Ab(m-n+1)) + ad(Ab(m+1) - aB(m+n+1)))}{a^2b^2e(m+1)n}$$

$$- \frac{d(ex)^{m+1}(Ab(m+1) - aB(m+n+1))}{ab^2e(m+1)n} + \frac{(ex)^{m+1}(Ab - aB)(c + dx^n)}{aben(a + bx^n)}$$

```
[In] Int[((e*x)^m*(A + B*x^n)*(c + d*x^n))/(a + b*x^n)^2,x]
```

[Out] $-\left(\frac{d(A*b*(1+m) - a*B*(1+m+n))*(e*x)^{(1+m)}}{a*b^2*e*(1+m)*n}\right) + \left(\frac{(A*b - a*B)*(e*x)^{(1+m)*(c+d*x^n)}}{a*b*e*n*(a+b*x^n)} + \frac{(b*c*(a*B*(1+m) - A*b*(1+m-n)) + a*d*(A*b*(1+m) - a*B*(1+m+n))*(e*x)^{(1+m)*Hypergeometric2F1[1, (1+m)/n, (1+m+n)/n, -((b*x^n)/a)]}{a^2*b^2*e*(1+m)*n}\right)$

Rule 371

Int[((c_)*(x_)^(m_))*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] :> Simp[a^p * ((c*x)^(m+1)/(c*(m+1)))*Hypergeometric2F1[-p, (m+1)/n, (m+1)/n+1, (-b)*(x^n/a)], x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILtQ[p, 0] || GtQ[a, 0])

Rule 470

Int[((e_)*(x_)^(m_))*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_)), x_Symbol] :> Simp[d*(e*x)^(m+1)*((a+b*x^n)^(p+1)/(b*e*(m+n*(p+1)+1))), x] - Dist[(a*d*(m+1) - b*c*(m+n*(p+1)+1))/(b*(m+n*(p+1)+1)), Int[(e*x)^m*(a+b*x^n)^p, x], x] /; FreeQ[{a, b, c, d, e, m, n, p}, x] && NeQ[b*c - a*d, 0] && NeQ[m+n*(p+1)+1, 0]

Rule 608

Int[((g_)*(x_)^(m_))*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_)*((e_) + (f_)*(x_)^(n_)), x_Symbol] :> Simp[(-b*e - a*f)*(g*x)^(m+1)*(a+b*x^n)^(p+1)*((c+d*x^n)^q/(a*b*g*n*(p+1))), x] + Dist[1/(a*b*n*(p+1)), Int[(g*x)^m*(a+b*x^n)^(p+1)*(c+d*x^n)^(q-1)*Simp[c*(b*e*n*(p+1) + (b*e - a*f)*(m+1)) + d*(b*e*n*(p+1) + (b*e - a*f)*(m+n*q+1))*x^n, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n}, x] && LtQ[p, -1] && GtQ[q, 0] && !(EqQ[q, 1] && SimplerQ[b*c - a*d, b*e - a*f])

Rubi steps

$$\begin{aligned} \text{integral} &= \frac{(Ab - aB)(ex)^{1+m} (c + dx^n)}{aben (a + bx^n)} \\ &= \frac{\int \frac{(ex)^m (-c(aB(1+m) - Ab(1+m-n)) + d(Ab(1+m) - aB(1+m+n))x^n)}{a+bx^n} dx}{abn} \\ &= -\frac{d(Ab(1+m) - aB(1+m+n))(ex)^{1+m}}{ab^2e(1+m)n} + \frac{(Ab - aB)(ex)^{1+m} (c + dx^n)}{aben (a + bx^n)} \\ &\quad + \frac{(bc(aB(1+m) - Ab(1+m-n)) + ad(Ab(1+m) - aB(1+m+n))) \int \frac{(ex)^m}{a+bx^n} dx}{ab^2n} \\ &= -\frac{d(Ab(1+m) - aB(1+m+n))(ex)^{1+m}}{ab^2e(1+m)n} + \frac{(Ab - aB)(ex)^{1+m} (c + dx^n)}{aben (a + bx^n)} \\ &\quad + \frac{(bc(aB(1+m) - Ab(1+m-n)) + ad(Ab(1+m) - aB(1+m+n)))(ex)^{1+m} {}_2F_1\left(1, \frac{1+m}{n}; \frac{1+m}{n}, \frac{dx^n}{a+bx^n}\right)}{a^2b^2e(1+m)n} \end{aligned}$$

Mathematica [A] (verified)

Time = 0.25 (sec) , antiderivative size = 110, normalized size of antiderivative = 0.62

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)}{(a + bx^n)^2} dx$$

$$= \frac{x(ex)^m (a^2 B d + a(b B c + A b d - 2 a B d) \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{bx^n}{a}\right) + (Ab - aB)(bc - ad)}{a^2 b^2 (1+m)}$$

[In] Integrate[((e*x)^m*(A + B*x^n)*(c + d*x^n))/(a + b*x^n)^2,x]

[Out] (x*(e*x)^m*(a^2*B*d + a*(b*B*c + A*b*d - 2*a*B*d)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -(b*x^n)/a] + (A*b - a*B)*(b*c - a*d)*Hypergeometric2F1[2, (1 + m)/n, (1 + m + n)/n, -(b*x^n)/a]))/(a^2*b^2*(1 + m))

Maple [F]

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)}{(a + bx^n)^2} dx$$

[In] int((e*x)^m*(A+B*x^n)*(c+d*x^n)/(a+b*x^n)^2,x)

[Out] int((e*x)^m*(A+B*x^n)*(c+d*x^n)/(a+b*x^n)^2,x)

Fricas [F]

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)}{(a + bx^n)^2} dx = \int \frac{(Bx^n + A)(dx^n + c)(ex)^m}{(bx^n + a)^2} dx$$

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

[Out] integral((B*d*x^(2*n) + A*c + (B*c + A*d)*x^n)*(e*x)^m/(b^2*x^(2*n) + 2*a*b*x^n + a^2), x)

Sympy [C] (verification not implemented)

Result contains complex when optimal does not.

Time = 26.10 (sec) , antiderivative size = 5176, normalized size of antiderivative = 29.24

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)}{(a + bx^n)^2} dx = \text{Too large to display}$$

[In] integrate((e*x)**m*(A+B*x**n)*(c+d*x**n)/(a+b*x**n)**2,x)

```
[Out] A*c*(-a*a**(m/n + 1/n)*a**(-m/n - 2 - 1/n)*e**m*m**2*x**(m + 1)*lerchphi(b*
x**n*exp_polar(I*pi)/a, 1, m/n + 1/n)*gamma(m/n + 1/n)/(a*n**3*gamma(m/n +
1 + 1/n) + b*n**3*x**n*gamma(m/n + 1 + 1/n)) + a*a**(m/n + 1/n)*a**(-m/n -
2 - 1/n)*e**m*m*n*x**(m + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 1/
n)*gamma(m/n + 1/n)/(a*n**3*gamma(m/n + 1 + 1/n) + b*n**3*x**n*gamma(m/n +
1 + 1/n)) + a*a**(m/n + 1/n)*a**(-m/n - 2 - 1/n)*e**m*m*n*x**(m + 1)*gamma(
m/n + 1/n)/(a*n**3*gamma(m/n + 1 + 1/n) + b*n**3*x**n*gamma(m/n + 1 + 1/n))
- 2*a*a**(m/n + 1/n)*a**(-m/n - 2 - 1/n)*e**m*m*x**(m + 1)*lerchphi(b*x**n
*exp_polar(I*pi)/a, 1, m/n + 1/n)*gamma(m/n + 1/n)/(a*n**3*gamma(m/n + 1 +
1/n) + b*n**3*x**n*gamma(m/n + 1 + 1/n)) + a*a**(m/n + 1/n)*a**(-m/n - 2 -
1/n)*e**m*n*x**(m + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 1/n)*gam
ma(m/n + 1/n)/(a*n**3*gamma(m/n + 1 + 1/n) + b*n**3*x**n*gamma(m/n + 1 + 1/
n)) + a*a**(m/n + 1/n)*a**(-m/n - 2 - 1/n)*e**m*n*x**(m + 1)*gamma(m/n + 1/
n)/(a*n**3*gamma(m/n + 1 + 1/n) + b*n**3*x**n*gamma(m/n + 1 + 1/n)) - a*a**
(m/n + 1/n)*a**(-m/n - 2 - 1/n)*e**m*x**(m + 1)*lerchphi(b*x**n*exp_polar(I
*pi)/a, 1, m/n + 1/n)*gamma(m/n + 1/n)/(a*n**3*gamma(m/n + 1 + 1/n) + b*n**
3*x**n*gamma(m/n + 1 + 1/n)) - a**(m/n + 1/n)*a**(-m/n - 2 - 1/n)*b*e**m*m*
*2*x**n*x**(m + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 1/n)*gamma(m
/n + 1/n)/(a*n**3*gamma(m/n + 1 + 1/n) + b*n**3*x**n*gamma(m/n + 1 + 1/n))
+ a**(m/n + 1/n)*a**(-m/n - 2 - 1/n)*b*e**m*m*n*x**n*x**(m + 1)*lerchphi(b*
x**n*exp_polar(I*pi)/a, 1, m/n + 1/n)*gamma(m/n + 1/n)/(a*n**3*gamma(m/n +
1 + 1/n) + b*n**3*x**n*gamma(m/n + 1 + 1/n)) - 2*a**(m/n + 1/n)*a**(-m/n -
2 - 1/n)*b*e**m*m*x**n*x**(m + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n
+ 1/n)*gamma(m/n + 1/n)/(a*n**3*gamma(m/n + 1 + 1/n) + b*n**3*x**n*gamma(m
/n + 1 + 1/n)) + a**(m/n + 1/n)*a**(-m/n - 2 - 1/n)*b*e**m*n*x**n*x**(m + 1
)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 1/n)*gamma(m/n + 1/n)/(a*n**3
*gamma(m/n + 1 + 1/n) + b*n**3*x**n*gamma(m/n + 1 + 1/n)) - a**(m/n + 1/n)*
a**(-m/n - 2 - 1/n)*b*e**m*x**n*x**(m + 1)*lerchphi(b*x**n*exp_polar(I*pi)/
a, 1, m/n + 1/n)*gamma(m/n + 1/n)/(a*n**3*gamma(m/n + 1 + 1/n) + b*n**3*x**
n*gamma(m/n + 1 + 1/n))) + A*d*(-a*a**(-m/n - 3 - 1/n)*a**(m/n + 1 + 1/n)*e
**m*m**2*x**(m + n + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 1 + 1/n
)*gamma(m/n + 1 + 1/n)/(a*n**3*gamma(m/n + 2 + 1/n) + b*n**3*x**n*gamma(m/n
+ 2 + 1/n)) - a*a**(-m/n - 3 - 1/n)*a**(m/n + 1 + 1/n)*e**m*m*n*x**(m + n
+ 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 1 + 1/n)*gamma(m/n + 1 + 1
/n)/(a*n**3*gamma(m/n + 2 + 1/n) + b*n**3*x**n*gamma(m/n + 2 + 1/n)) + a*a*
*(-m/n - 3 - 1/n)*a**(m/n + 1 + 1/n)*e**m*m*n*x**(m + n + 1)*gamma(m/n + 1
+ 1/n)/(a*n**3*gamma(m/n + 2 + 1/n) + b*n**3*x**n*gamma(m/n + 2 + 1/n)) - 2
*a*a**(-m/n - 3 - 1/n)*a**(m/n + 1 + 1/n)*e**m*m*x**(m + n + 1)*lerchphi(b*
x**n*exp_polar(I*pi)/a, 1, m/n + 1 + 1/n)*gamma(m/n + 1 + 1/n)/(a*n**3*gamm
a(m/n + 2 + 1/n) + b*n**3*x**n*gamma(m/n + 2 + 1/n)) + a*a**(-m/n - 3 - 1/n
)*a**(m/n + 1 + 1/n)*e**m*n**2*x**(m + n + 1)*gamma(m/n + 1 + 1/n)/(a*n**3*
gamma(m/n + 2 + 1/n) + b*n**3*x**n*gamma(m/n + 2 + 1/n)) - a*a**(-m/n - 3 -
1/n)*a**(m/n + 1 + 1/n)*e**m*n*x**(m + n + 1)*lerchphi(b*x**n*exp_polar(I*
pi)/a, 1, m/n + 1 + 1/n)*gamma(m/n + 1 + 1/n)/(a*n**3*gamma(m/n + 2 + 1/n)
+ b*n**3*x**n*gamma(m/n + 2 + 1/n)) + a*a**(-m/n - 3 - 1/n)*a**(m/n + 1 + 1
```


$$\begin{aligned}
& I\pi)/a, 1, m/n + 1 + 1/n) * \text{gamma}(m/n + 1 + 1/n) / (a^{n+3} * \text{gamma}(m/n + 2 + 1/n) \\
&) + b^{n+3} * x^{n+1} * \text{gamma}(m/n + 2 + 1/n)) - a^{-(m/n - 3 - 1/n)} * a^{(m/n + 1 + 1/n)} * b^{e^{m/n} * x^{n+1}} * \text{lerchphi}(b^{x^{n+1}} * \exp_{\text{polar}}(I\pi)/a, 1, m/n \\
& + 1 + 1/n) * \text{gamma}(m/n + 1 + 1/n) / (a^{n+3} * \text{gamma}(m/n + 2 + 1/n) + b^{n+3} * x^{n+1} * \\
& \text{gamma}(m/n + 2 + 1/n)) - a^{-(m/n - 3 - 1/n)} * a^{(m/n + 1 + 1/n)} * b^{e^{m/n} * x^{n+1}} * \\
& x^{(m+n+1)} * \text{lerchphi}(b^{x^{n+1}} * \exp_{\text{polar}}(I\pi)/a, 1, m/n + 1 + 1/n) * \text{gamma}(m \\
& /n + 1 + 1/n) / (a^{n+3} * \text{gamma}(m/n + 2 + 1/n) + b^{n+3} * x^{n+1} * \text{gamma}(m/n + 2 + 1/ \\
& n))) + B * d^{-(a * a^{-(m/n - 4 - 1/n)} * a^{(m/n + 2 + 1/n)} * e^{m/n} * x^{2 * (m + 2 * n \\
& + 1)} * \text{lerchphi}(b^{x^{n+1}} * \exp_{\text{polar}}(I\pi)/a, 1, m/n + 2 + 1/n) * \text{gamma}(m/n + 2 + \\
& 1/n) / (a^{n+3} * \text{gamma}(m/n + 3 + 1/n) + b^{n+3} * x^{n+1} * \text{gamma}(m/n + 3 + 1/n)) - 3 * a \\
& * a^{-(m/n - 4 - 1/n)} * a^{(m/n + 2 + 1/n)} * e^{m/n} * x^{(m + 2 * n + 1)} * \text{lerchphi}(\\
& b^{x^{n+1}} * \exp_{\text{polar}}(I\pi)/a, 1, m/n + 2 + 1/n) * \text{gamma}(m/n + 2 + 1/n) / (a^{n+3} * \text{ga} \\
& \text{mma}(m/n + 3 + 1/n) + b^{n+3} * x^{n+1} * \text{gamma}(m/n + 3 + 1/n)) + a * a^{-(m/n - 4 - 1 \\
& /n)} * a^{(m/n + 2 + 1/n)} * e^{m/n} * x^{(m + 2 * n + 1)} * \text{gamma}(m/n + 2 + 1/n) / (a^{n * \\
& * 3} * \text{gamma}(m/n + 3 + 1/n) + b^{n+3} * x^{n+1} * \text{gamma}(m/n + 3 + 1/n)) - 2 * a * a^{-(m/n \\
& - 4 - 1/n)} * a^{(m/n + 2 + 1/n)} * e^{m/n} * x^{(m + 2 * n + 1)} * \text{lerchphi}(b^{x^{n+1}} * \exp_p \\
& \text{olar}(I\pi)/a, 1, m/n + 2 + 1/n) * \text{gamma}(m/n + 2 + 1/n) / (a^{n+3} * \text{gamma}(m/n + 3 \\
& + 1/n) + b^{n+3} * x^{n+1} * \text{gamma}(m/n + 3 + 1/n)) - 2 * a * a^{-(m/n - 4 - 1/n)} * a^{(m/ \\
& n + 2 + 1/n)} * e^{m/n} * x^{2 * (m + 2 * n + 1)} * \text{lerchphi}(b^{x^{n+1}} * \exp_{\text{polar}}(I\pi)/a, \\
& 1, m/n + 2 + 1/n) * \text{gamma}(m/n + 2 + 1/n) / (a^{n+3} * \text{gamma}(m/n + 3 + 1/n) + b^{n+3} \\
& * x^{n+1} * \text{gamma}(m/n + 3 + 1/n)) + 2 * a * a^{-(m/n - 4 - 1/n)} * a^{(m/n + 2 + 1/n)} * e \\
& ^{m/n} * x^{2 * (m + 2 * n + 1)} * \text{gamma}(m/n + 2 + 1/n) / (a^{n+3} * \text{gamma}(m/n + 3 + 1/n) \\
& + b^{n+3} * x^{n+1} * \text{gamma}(m/n + 3 + 1/n)) - 3 * a * a^{-(m/n - 4 - 1/n)} * a^{(m/n + 2 \\
& + 1/n)} * e^{m/n} * x^{(m + 2 * n + 1)} * \text{lerchphi}(b^{x^{n+1}} * \exp_{\text{polar}}(I\pi)/a, 1, m/n + \\
& 2 + 1/n) * \text{gamma}(m/n + 2 + 1/n) / (a^{n+3} * \text{gamma}(m/n + 3 + 1/n) + b^{n+3} * x^{n+1} * \text{ga} \\
& \text{mma}(m/n + 3 + 1/n)) + a * a^{-(m/n - 4 - 1/n)} * a^{(m/n + 2 + 1/n)} * e^{m/n} * x^{(m \\
& + 2 * n + 1)} * \text{gamma}(m/n + 2 + 1/n) / (a^{n+3} * \text{gamma}(m/n + 3 + 1/n) + b^{n+3} * x^{n+1} \\
& * \text{gamma}(m/n + 3 + 1/n)) - a * a^{-(m/n - 4 - 1/n)} * a^{(m/n + 2 + 1/n)} * e^{m/n} * x^{(\\
& m + 2 * n + 1)} * \text{lerchphi}(b^{x^{n+1}} * \exp_{\text{polar}}(I\pi)/a, 1, m/n + 2 + 1/n) * \text{gamma}(m/n \\
& + 2 + 1/n) / (a^{n+3} * \text{gamma}(m/n + 3 + 1/n) + b^{n+3} * x^{n+1} * \text{gamma}(m/n + 3 + 1/n) \\
&) - a^{-(m/n - 4 - 1/n)} * a^{(m/n + 2 + 1/n)} * b^{e^{m/n} * x^{2 * (m + 2 * n + 1)}} * \text{lerchphi}(b^{x^{n+1}} * \exp_{\text{polar}}(I\pi)/a, 1, m/n + 2 + 1/n) * \text{gamma}(m/n + 2 + 1/n) \\
& / (a^{n+3} * \text{gamma}(m/n + 3 + 1/n) + b^{n+3} * x^{n+1} * \text{gamma}(m/n + 3 + 1/n)) - 3 * a^{-(m \\
& /n - 4 - 1/n)} * a^{(m/n + 2 + 1/n)} * b^{e^{m/n} * x^{(m + 2 * n + 1)}} * \text{lerchphi} \\
& (b^{x^{n+1}} * \exp_{\text{polar}}(I\pi)/a, 1, m/n + 2 + 1/n) * \text{gamma}(m/n + 2 + 1/n) / (a^{n+3} * \text{g} \\
& \text{amma}(m/n + 3 + 1/n) + b^{n+3} * x^{n+1} * \text{gamma}(m/n + 3 + 1/n)) - 2 * a^{-(m/n - 4 - \\
& 1/n)} * a^{(m/n + 2 + 1/n)} * b^{e^{m/n} * x^{(m + 2 * n + 1)}} * \text{lerchphi}(b^{x^{n+1}} * \exp_ \\
& \text{polar}(I\pi)/a, 1, m/n + 2 + 1/n) * \text{gamma}(m/n + 2 + 1/n) / (a^{n+3} * \text{gamma}(m/n + 3 \\
& + 1/n) + b^{n+3} * x^{n+1} * \text{gamma}(m/n + 3 + 1/n)) - 2 * a^{-(m/n - 4 - 1/n)} * a^{(m/n \\
& + 2 + 1/n)} * b^{e^{m/n} * x^{2 * (m + 2 * n + 1)}} * \text{lerchphi}(b^{x^{n+1}} * \exp_{\text{polar}}(I\pi) \\
& /a, 1, m/n + 2 + 1/n) * \text{gamma}(m/n + 2 + 1/n) / (a^{n+3} * \text{gamma}(m/n + 3 + 1/n) + \\
& b^{n+3} * x^{n+1} * \text{gamma}(m/n + 3 + 1/n)) - 3 * a^{-(m/n - 4 - 1/n)} * a^{(m/n + 2 + 1/ \\
& n)} * b^{e^{m/n} * x^{(m + 2 * n + 1)}} * \text{lerchphi}(b^{x^{n+1}} * \exp_{\text{polar}}(I\pi)/a, 1, m/n \\
& + 2 + 1/n) * \text{gamma}(m/n + 2 + 1/n) / (a^{n+3} * \text{gamma}(m/n + 3 + 1/n) + b^{n+3} * x^{n+1} \\
& * \text{gamma}(m/n + 3 + 1/n)) - a^{-(m/n - 4 - 1/n)} * a^{(m/n + 2 + 1/n)} * b^{e^{m/n} * x^{n+1}}
\end{aligned}$$

```
*x**(m + 2*n + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 2 + 1/n)*gamma
a(m/n + 2 + 1/n)/(a*n**3*gamma(m/n + 3 + 1/n) + b*n**3*x**n*gamma(m/n + 3 +
1/n))
```

Maxima [F]

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)}{(a + bx^n)^2} dx = \int \frac{(Bx^n + A)(dx^n + c)(ex)^m}{(bx^n + a)^2} dx$$

```
[In] integrate((e*x)^m*(A+B*x^n)*(c+d*x^n)/(a+b*x^n)^2,x, algorithm="maxima")
```

```
[Out] -((b^2*c*e^m*(m - n + 1) - a*b*d*e^m*(m + 1))*A + (a^2*d*e^m*(m + n + 1) -
a*b*c*e^m*(m + 1))*B)*integrate(x^m/(a*b^3*n*x^n + a^2*b^2*n), x) + (B*a*b*
d*e^m*n*x*e^(m*log(x) + n*log(x)) + ((b^2*c*e^m*(m + 1) - a*b*d*e^m*(m + 1)
)*A + (a^2*d*e^m*(m + n + 1) - a*b*c*e^m*(m + 1))*B)*x*x^m)/((m*n + n)*a*b^
3*x^n + (m*n + n)*a^2*b^2)
```

Giac [F]

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)}{(a + bx^n)^2} dx = \int \frac{(Bx^n + A)(dx^n + c)(ex)^m}{(bx^n + a)^2} dx$$

```
[In] integrate((e*x)^m*(A+B*x^n)*(c+d*x^n)/(a+b*x^n)^2,x, algorithm="giac")
```

```
[Out] integrate((B*x^n + A)*(d*x^n + c)*(e*x)^m/(b*x^n + a)^2, x)
```

Mupad [F(-1)]

Timed out.

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)}{(a + bx^n)^2} dx = \int \frac{(ex)^m (A + Bx^n)(c + dx^n)}{(a + bx^n)^2} dx$$

```
[In] int(((e*x)^m*(A + B*x^n)*(c + d*x^n))/(a + b*x^n)^2,x)
```

```
[Out] int(((e*x)^m*(A + B*x^n)*(c + d*x^n))/(a + b*x^n)^2, x)
```


$$3.7 \quad \int \frac{(ex)^m (A+Bx^n)(c+dx^n)}{(a+bx^n)^3} dx$$

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Sympy [F(-1)]	164
Maxima [F]	164
Giac [F]	165
Mupad [F(-1)]	165

Optimal result

Integrand size = 29, antiderivative size = 228

$$\int \frac{(ex)^m (A+Bx^n)(c+dx^n)}{(a+bx^n)^3} dx$$

$$= -\frac{(Ab(bc(1+m-2n) - ad(1+m-n)) - aB(bc(1+m) - ad(1+m+n)))(ex)^{1+m}}{2a^2b^2en^2(a+bx^n)} + \frac{(Ab - aB)(ex)^{1+m}(c+dx^n)}{2aben(a+bx^n)^2} - \frac{(bc(aB(1+m) - Ab(1+m-2n))(1+m-n) + ad(1+m)(Ab(1+m-n) - aB(1+m+n)))(ex)^{1+m}}{2a^3b^2e(1+m)n^2}$$

```
[Out] -1/2*(A*b*(b*c*(1+m-2*n)-a*d*(1+m-n))-a*B*(b*c*(1+m)-a*d*(1+m+n))*(e*x)^(1+m)/a^2/b^2/e/n^2/(a+b*x^n)+1/2*(A*b-B*a)*(e*x)^(1+m)*(c+d*x^n)/a/b/e/n/(a+b*x^n)^2-1/2*(b*c*(a*B*(1+m)-A*b*(1+m-2*n))*(1+m-n)+a*d*(1+m)*(A*b*(1+m-n)-a*B*(1+m+n))*(e*x)^(1+m)*hypergeom([1, (1+m)/n], [(1+m+n)/n], -b*x^n/a)/a^3/b^2/e/(1+m)/n^2
```

Rubi [A] (verified)

Time = 0.17 (sec) , antiderivative size = 227, normalized size of antiderivative = 1.00, number of steps used = 3, number of rules used = 3, $\frac{\text{number of rules}}{\text{integrand size}} = 0.103$, Rules used

= {608, 468, 371}

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)}{(a + bx^n)^3} dx =$$

$$\frac{(ex)^{m+1} \operatorname{Hypergeometric2F1}\left(1, \frac{m+1}{n}, \frac{m+n+1}{n}, -\frac{bx^n}{a}\right) (bc(m-n+1)(aB(m+1) - Ab(m-2n+1)) + ad(aB(m+1) - Ab(m-2n+1)))}{2a^3b^2e(m+1)n^2}$$

$$+ \frac{(ex)^{m+1}(bc(aB(m+1) - Ab(m-2n+1)) + ad(Ab(m-n+1) - aB(m+n+1)))}{2a^2b^2en^2(a + bx^n)}$$

$$+ \frac{(ex)^{m+1}(Ab - aB)(c + dx^n)}{2aben(a + bx^n)^2}$$

[In] Int[((e*x)^m*(A + B*x^n)*(c + d*x^n))/(a + b*x^n)^3,x]

[Out] ((b*c*(a*B*(1 + m) - A*b*(1 + m - 2*n)) + a*d*(A*b*(1 + m - n) - a*B*(1 + m + n)))*(e*x)^(1 + m))/(2*a^2*b^2*e*n^2*(a + b*x^n)) + ((A*b - a*B)*(e*x)^(1 + m)*(c + d*x^n))/(2*a*b*e*n*(a + b*x^n)^2) - ((b*c*(a*B*(1 + m) - A*b*(1 + m - 2*n))*(1 + m - n) + a*d*(1 + m)*(A*b*(1 + m - n) - a*B*(1 + m + n)))*(e*x)^(1 + m)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -(b*x^n)/a])/(2*a^3*b^2*e*(1 + m)*n^2)

Rule 371

Int[((c_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Simp[a^p*((c*x)^(m+1)/(c*(m+1)))*Hypergeometric2F1[-p, (m+1)/n, (m+1)/n+1, (-b)*(x^n/a)], x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILtQ[p, 0] || GtQ[a, 0])

Rule 468

Int[((e_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_)), x_Symbol] := Simp[(-b*c - a*d)*(e*x)^(m+1)*((a + b*x^n)^(p+1)/(a*b*e*n*(p+1))), x] - Dist[(a*d*(m+1) - b*c*(m+n*(p+1)+1))/(a*b*n*(p+1)), Int[(e*x)^m*(a + b*x^n)^(p+1), x], x] /; FreeQ[{a, b, c, d, e, m, n}, x] && NeQ[b*c - a*d, 0] && LtQ[p, -1] && ((!IntegerQ[p + 1/2] && NeQ[p, -5/4]) || !RationalQ[m] || (IGtQ[n, 0] && ILtQ[p + 1/2, 0] && LeQ[-1, m, (-n)*(p+1)])

Rule 608

Int[((g_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_)*((e_) + (f_)*(x_)^(n_)), x_Symbol] := Simp[(-b*e - a*f)*(g*x)^(m+1)*(a + b*x^n)^(p+1)*((c + d*x^n)^q/(a*b*g*n*(p+1))), x] + Dist[1/(a*b*n*(p+1)), Int[(g*x)^m*(a + b*x^n)^(p+1)*(c + d*x^n)^(q-1)*Simp[c*(b*e*n*(p+1) + (b*e - a*f)*(m+1)) + d*(b*e*n*(p+1) + (b*e - a*f)*(m+n*q+1))*x^n, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n}, x] && LtQ[p, -1] && GtQ[q, 0] && !(EqQ[q, 1] && SimplerQ[b*c - a*d, b*e - a*f])

Rubi steps

$$\begin{aligned}
 \text{integral} &= \frac{(Ab - aB)(ex)^{1+m} (c + dx^n)}{2aben (a + bx^n)^2} \\
 &\quad - \frac{\int \frac{(ex)^m (-c(aB(1+m) - Ab(1+m-2n)) + d(Ab(1+m-n) - aB(1+m+n))x^n)}{(a+bx^n)^2} dx}{2abn} \\
 &= \frac{(bc(aB(1+m) - Ab(1+m-2n)) + ad(Ab(1+m-n) - aB(1+m+n)))(ex)^{1+m}}{2a^2b^2en^2 (a + bx^n)} \\
 &\quad + \frac{(Ab - aB)(ex)^{1+m} (c + dx^n)}{2aben (a + bx^n)^2} \\
 &\quad - \frac{(bc(aB(1+m) - Ab(1+m-2n))(1+m-n) + ad(1+m)(Ab(1+m-n) - aB(1+m+n)))}{2a^2b^2n^2} \\
 &= \frac{(bc(aB(1+m) - Ab(1+m-2n)) + ad(Ab(1+m-n) - aB(1+m+n)))(ex)^{1+m}}{2a^2b^2en^2 (a + bx^n)} \\
 &\quad + \frac{(Ab - aB)(ex)^{1+m} (c + dx^n)}{2aben (a + bx^n)^2} \\
 &\quad - \frac{(bc(aB(1+m) - Ab(1+m-2n))(1+m-n) + ad(1+m)(Ab(1+m-n) - aB(1+m+n)))}{2a^3b^2e(1+m)n^2}
 \end{aligned}$$

Mathematica [A] (verified)

Time = 0.42 (sec) , antiderivative size = 136, normalized size of antiderivative = 0.60

$$\begin{aligned}
 &\int \frac{(ex)^m (A + Bx^n) (c + dx^n)}{(a + bx^n)^3} dx \\
 &= \frac{x(ex)^m (a^2Bd \text{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{bx^n}{a}\right) + a(bBc + Abd - 2aBd) \text{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{bx^n}{a}\right) + (A*b - a*B)*(b*c - a*d) \text{Hypergeometric2F1}\left(3, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{bx^n}{a}\right))}{a^3b^2(1+m)}
 \end{aligned}$$

[In] Integrate[((e*x)^m*(A + B*x^n)*(c + d*x^n))/(a + b*x^n)^3,x]

[Out] (x*(e*x)^m*(a^2*B*d*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -(b*x^n)/a]) + a*(b*B*c + A*b*d - 2*a*B*d)*Hypergeometric2F1[2, (1 + m)/n, (1 + m + n)/n, -(b*x^n)/a] + (A*b - a*B)*(b*c - a*d)*Hypergeometric2F1[3, (1 + m)/n, (1 + m + n)/n, -(b*x^n)/a])/(a^3*b^2*(1 + m))

Maple [F]

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)}{(a + bx^n)^3} dx$$

[In] int((e*x)^m*(A+B*x^n)*(c+d*x^n)/(a+b*x^n)^3,x)

[Out] int((e*x)^m*(A+B*x^n)*(c+d*x^n)/(a+b*x^n)^3,x)

Fricas [F]

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)}{(a + bx^n)^3} dx = \int \frac{(Bx^n + A)(dx^n + c)(ex)^m}{(bx^n + a)^3} dx$$

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

[Out] integral((B*d*x^(2*n) + A*c + (B*c + A*d)*x^n)*(e*x)^m/(b^3*x^(3*n) + 3*a*b^2*x^(2*n) + 3*a^2*b*x^n + a^3), x)

Sympy [F(-1)]

Timed out.

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)}{(a + bx^n)^3} dx = \text{Timed out}$$

[In] integrate((e*x)**m*(A+B*x**n)*(c+d*x**n)/(a+b*x**n)**3,x)

[Out] Timed out

Maxima [F]

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)}{(a + bx^n)^3} dx = \int \frac{(Bx^n + A)(dx^n + c)(ex)^m}{(bx^n + a)^3} dx$$

[In] integrate((e*x)^m*(A+B*x^n)*(c+d*x^n)/(a+b*x^n)^3,x, algorithm="maxima")

[Out] ((m^2 - m*(3*n - 2) + 2*n^2 - 3*n + 1)*b^2*c*e^m - (m^2 - m*(n - 2) - n + 1)*a*b*d*e^m)*A - ((m^2 - m*(n - 2) - n + 1)*a*b*c*e^m - (m^2 + m*(n + 2) + n + 1)*a^2*d*e^m)*B)*integrate(1/2*x^m/(a^2*b^3*n^2*x^n + a^3*b^2*n^2), x) + 1/2*((a^2*b*d*e^m*(m - n + 1) - a*b^2*c*e^m*(m - 3*n + 1))*A - (a^3*d*e^m*(m + n + 1) - a^2*b*c*e^m*(m - n + 1))*B)*x*x^m - ((b^3*c*e^m*(m - 2*n + 1) - a*b^2*d*e^m*(m + 1))*A + (a^2*b*d*e^m*(m + 2*n + 1) - a*b^2*c*e^m*(m + 1))*B)*x*e^(m*log(x) + n*log(x))/(a^2*b^4*n^2*x^(2*n) + 2*a^3*b^3*n^2*x^n + a^4*b^2*n^2)

Giac [F]

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)}{(a + bx^n)^3} dx = \int \frac{(Bx^n + A)(dx^n + c)(ex)^m}{(bx^n + a)^3} dx$$

[In] integrate((e*x)^m*(A+B*x^n)*(c+d*x^n)/(a+b*x^n)^3,x, algorithm="giac")

[Out] integrate((B*x^n + A)*(d*x^n + c)*(e*x)^m/(b*x^n + a)^3, x)

Mupad [F(-1)]

Timed out.

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)}{(a + bx^n)^3} dx = \int \frac{(ex)^m (A + Bx^n)(c + dx^n)}{(a + bx^n)^3} dx$$

[In] int(((e*x)^m*(A + B*x^n)*(c + d*x^n))/(a + b*x^n)^3,x)

[Out] int(((e*x)^m*(A + B*x^n)*(c + d*x^n))/(a + b*x^n)^3, x)

3.8 $\int (ex)^m (a + bx^n)^3 (A + Bx^n) (c + dx^n)^2 dx$

Optimal result	166
Rubi [A] (verified)	167
Mathematica [A] (verified)	169
Maple [C] (warning: unable to verify)	169
Fricas [B] (verification not implemented)	170
Sympy [B] (verification not implemented)	170
Maxima [B] (verification not implemented)	268
Giac [B] (verification not implemented)	269
Mupad [B] (verification not implemented)	310

Optimal result

Integrand size = 31, antiderivative size = 318

$$\begin{aligned}
 & \int (ex)^m (a + bx^n)^3 (A + Bx^n) (c + dx^n)^2 dx \\
 &= \frac{a^2c(3Abc + aBc + 2aAd)x^{1+n}(ex)^m}{1 + m + n} \\
 &+ \frac{a(aBc(3bc + 2ad) + A(3b^2c^2 + 6abcd + a^2d^2))x^{1+2n}(ex)^m}{1 + m + 2n} \\
 &+ \frac{(aB(3b^2c^2 + 6abcd + a^2d^2) + Ab(b^2c^2 + 6abcd + 3a^2d^2))x^{1+3n}(ex)^m}{1 + m + 3n} \\
 &+ \frac{b(3a^2Bd^2 + 3abd(2Bc + Ad) + b^2c(Bc + 2Ad))x^{1+4n}(ex)^m}{1 + m + 4n} \\
 &+ \frac{b^2d(2bBc + Abd + 3aBd)x^{1+5n}(ex)^m}{1 + m + 5n} + \frac{b^3Bd^2x^{1+6n}(ex)^m}{1 + m + 6n} + \frac{a^3Ac^2(ex)^{1+m}}{e(1 + m)}
 \end{aligned}$$

```

[Out] a^2*c*(2*A*a*d+3*A*b*c+B*a*c)*x^(1+n)*(e*x)^m/(1+m+n)+a*(a*B*c*(2*a*d+3*b*c
)+A*(a^2*d^2+6*a*b*c*d+3*b^2*c^2))*x^(1+2*n)*(e*x)^m/(1+m+2*n)+(a*B*(a^2*d^
2+6*a*b*c*d+3*b^2*c^2)+A*b*(3*a^2*d^2+6*a*b*c*d+b^2*c^2))*x^(1+3*n)*(e*x)^m
/(1+m+3*n)+b*(3*a^2*B*d^2+3*a*b*d*(A*d+2*B*c)+b^2*c*(2*A*d+B*c))*x^(1+4*n)*
(e*x)^m/(1+m+4*n)+b^2*d*(A*b*d+3*B*a*d+2*B*b*c)*x^(1+5*n)*(e*x)^m/(1+m+5*n)
+b^3*B*d^2*x^(1+6*n)*(e*x)^m/(1+m+6*n)+a^3*A*c^2*(e*x)^(1+m)/e/(1+m)

```

Rubi [A] (verified)

Time = 0.27 (sec) , antiderivative size = 318, normalized size of antiderivative = 1.00, number of steps used = 14, number of rules used = 3, $\frac{\text{number of rules}}{\text{integrand size}} = 0.097$, Rules used = {584, 20, 30}

$$\begin{aligned} & \int (ex)^m (a + bx^n)^3 (A + Bx^n) (c + dx^n)^2 dx \\ &= \frac{a^3 Ac^2 (ex)^{m+1}}{e(m+1)} + \frac{ax^{2n+1} (ex)^m (A(a^2 d^2 + 6abcd + 3b^2 c^2) + aBc(2ad + 3bc))}{m+2n+1} \\ &+ \frac{x^{3n+1} (ex)^m (Ab(3a^2 d^2 + 6abcd + b^2 c^2) + aB(a^2 d^2 + 6abcd + 3b^2 c^2))}{m+3n+1} \\ &+ \frac{bx^{4n+1} (ex)^m (3a^2 Bd^2 + 3abd(Ad + 2Bc) + b^2 c(2Ad + Bc))}{m+4n+1} \\ &+ \frac{a^2 cx^{n+1} (ex)^m (2aAd + aBc + 3Abc)}{m+n+1} \\ &+ \frac{b^2 dx^{5n+1} (ex)^m (3aBd + Abd + 2bBc)}{m+5n+1} + \frac{b^3 Bd^2 x^{6n+1} (ex)^m}{m+6n+1} \end{aligned}$$

[In] Int[(e*x)^m*(a + b*x^n)^3*(A + B*x^n)*(c + d*x^n)^2,x]

[Out] (a^2*c*(3*A*b*c + a*B*c + 2*a*A*d)*x^(1 + n)*(e*x)^m)/(1 + m + n) + (a*(a*B*c*(3*b*c + 2*a*d) + A*(3*b^2*c^2 + 6*a*b*c*d + a^2*d^2))*x^(1 + 2*n)*(e*x)^m)/(1 + m + 2*n) + ((a*B*(3*b^2*c^2 + 6*a*b*c*d + a^2*d^2) + A*b*(b^2*c^2 + 6*a*b*c*d + 3*a^2*d^2))*x^(1 + 3*n)*(e*x)^m)/(1 + m + 3*n) + (b*(3*a^2*B*d^2 + 3*a*b*d*(2*B*c + A*d) + b^2*c*(B*c + 2*A*d))*x^(1 + 4*n)*(e*x)^m)/(1 + m + 4*n) + (b^2*d*(2*b*B*c + A*b*d + 3*a*B*d)*x^(1 + 5*n)*(e*x)^m)/(1 + m + 5*n) + (b^3*B*d^2*x^(1 + 6*n)*(e*x)^m)/(1 + m + 6*n) + (a^3*A*c^2*(e*x)^(1 + m))/(e*(1 + m))

Rule 20

Int[(u_.)*((a_.)*(v_))^(m_.)*((b_.)*(v_))^(n_.), x_Symbol] := Dist[b^IntPart[n]*((b*v)^FracPart[n]/(a^IntPart[n]*(a*v)^FracPart[n])), Int[u*(a*v)^(m+n), x], x] /; FreeQ[{a, b, m, n}, x] && !IntegerQ[m] && !IntegerQ[n] && !IntegerQ[m+n]

Rule 30

Int[(x_)^(m_.), x_Symbol] := Simp[x^(m+1)/(m+1), x] /; FreeQ[m, x] && N eQ[m, -1]

Rule 584

Int[((g_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_.))^(p_.)*((c_) + (d_.)*(x_)^(n_.))^(q_.)*((e_) + (f_.)*(x_)^(n_.))^(r_.), x_Symbol] := Int[ExpandIntegrand[(g*x)^m*(a + b*x^n)^p*(c + d*x^n)^q*(e + f*x^n)^r, x], x] /; FreeQ[{a, b, c

, d, e, f, g, m, n}, x] && IGtQ[p, -2] && IGtQ[q, 0] && IGtQ[r, 0]

Rubi steps

$$\begin{aligned}
\text{integral} &= \int (a^3 Ac^2 (ex)^m + a^2 c(3Abc + aBc + 2aAd)x^n (ex)^m \\
&\quad + a(aBc(3bc + 2ad) + A(3b^2c^2 + 6abcd + a^2d^2)) x^{2n} (ex)^m \\
&\quad + (aB(3b^2c^2 + 6abcd + a^2d^2) + Ab(b^2c^2 + 6abcd + 3a^2d^2)) x^{3n} (ex)^m \\
&\quad + b(3a^2Bd^2 + 3abd(2Bc + Ad) + b^2c(Bc + 2Ad)) x^{4n} (ex)^m \\
&\quad + b^2d(2bBc + Abd + 3aBd)x^{5n} (ex)^m + b^3Bd^2x^{6n} (ex)^m) dx \\
&= \frac{a^3 Ac^2 (ex)^{1+m}}{e(1+m)} + (b^3 Bd^2) \int x^{6n} (ex)^m dx + (a^2 c(3Abc + aBc + 2aAd)) \int x^n (ex)^m dx \\
&\quad + (b^2 d(2bBc + Abd + 3aBd)) \int x^{5n} (ex)^m dx \\
&\quad + (b(3a^2 Bd^2 + 3abd(2Bc + Ad) + b^2 c(Bc + 2Ad))) \int x^{4n} (ex)^m dx \\
&\quad + (a(aBc(3bc + 2ad) + A(3b^2c^2 + 6abcd + a^2d^2))) \int x^{2n} (ex)^m dx \\
&\quad + (aB(3b^2c^2 + 6abcd + a^2d^2) + Ab(b^2c^2 + 6abcd + 3a^2d^2)) \int x^{3n} (ex)^m dx \\
&= \frac{a^3 Ac^2 (ex)^{1+m}}{e(1+m)} + (b^3 Bd^2 x^{-m} (ex)^m) \int x^{m+6n} dx \\
&\quad + (a^2 c(3Abc + aBc + 2aAd)x^{-m} (ex)^m) \int x^{m+n} dx \\
&\quad + (b^2 d(2bBc + Abd + 3aBd)x^{-m} (ex)^m) \int x^{m+5n} dx \\
&\quad + (b(3a^2 Bd^2 + 3abd(2Bc + Ad) + b^2 c(Bc + 2Ad)) x^{-m} (ex)^m) \int x^{m+4n} dx \\
&\quad + (a(aBc(3bc + 2ad) + A(3b^2c^2 + 6abcd + a^2d^2)) x^{-m} (ex)^m) \int x^{m+2n} dx \\
&\quad + ((aB(3b^2c^2 + 6abcd + a^2d^2) + Ab(b^2c^2 + 6abcd + 3a^2d^2)) x^{-m} (ex)^m) \int x^{m+3n} dx \\
&= \frac{a^2 c(3Abc + aBc + 2aAd)x^{1+n} (ex)^m}{1+m+n} \\
&\quad + \frac{a(aBc(3bc + 2ad) + A(3b^2c^2 + 6abcd + a^2d^2)) x^{1+2n} (ex)^m}{1+m+2n} \\
&\quad + \frac{(aB(3b^2c^2 + 6abcd + a^2d^2) + Ab(b^2c^2 + 6abcd + 3a^2d^2)) x^{1+3n} (ex)^m}{1+m+3n} \\
&\quad + \frac{b(3a^2 Bd^2 + 3abd(2Bc + Ad) + b^2 c(Bc + 2Ad)) x^{1+4n} (ex)^m}{1+m+4n} \\
&\quad + \frac{b^2 d(2bBc + Abd + 3aBd)x^{1+5n} (ex)^m}{1+m+5n} + \frac{b^3 Bd^2 x^{1+6n} (ex)^m}{1+m+6n} + \frac{a^3 Ac^2 (ex)^{1+m}}{e(1+m)}
\end{aligned}$$

Mathematica [A] (verified)

Time = 1.57 (sec) , antiderivative size = 273, normalized size of antiderivative = 0.86

$$\int (ex)^m (a + bx^n)^3 (A + Bx^n) (c + dx^n)^2 dx$$

$$= x(ex)^m \left(\frac{a^3 Ac^2}{1+m} + \frac{a^2 c(3Abc + aBc + 2aAd)x^n}{1+m+n} + \frac{a(aBc(3bc + 2ad) + A(3b^2c^2 + 6abcd + a^2d^2))x^{2n}}{1+m+2n} + \frac{(aB(3b^2c^2 + 6abcd + a^2d^2) + Ab(b^2c^2 + 6abcd + 3a^2d^2))x^{3n}}{1+m+3n} + \frac{b(3a^2Bd^2 + 3abd(2Bc + Ad) + b^2c(Bc + 2Ad))x^{4n}}{1+m+4n} + \frac{b^2d(2bBc + Abd + 3aBd)x^{5n}}{1+m+5n} + \frac{b^3Bd^2x^{6n}}{1+m+6n} \right)$$

[In] Integrate[(e*x)^m*(a + b*x^n)^3*(A + B*x^n)*(c + d*x^n)^2,x]

[Out] x*(e*x)^m*((a^3*A*c^2)/(1+m) + (a^2*c*(3*A*b*c + a*B*c + 2*a*A*d)*x^n)/(1+m+n) + (a*(a*B*c*(3*b*c + 2*a*d) + A*(3*b^2*c^2 + 6*a*b*c*d + a^2*d^2))*x^(2*n))/(1+m+2*n) + ((a*B*(3*b^2*c^2 + 6*a*b*c*d + a^2*d^2) + A*b*(b^2*c^2 + 6*a*b*c*d + 3*a^2*d^2))*x^(3*n))/(1+m+3*n) + (b*(3*a^2*B*d^2 + 3*a*b*d*(2*B*c + A*d) + b^2*c*(B*c + 2*A*d))*x^(4*n))/(1+m+4*n) + (b^2*d*(2*b*B*c + A*b*d + 3*a*B*d)*x^(5*n))/(1+m+5*n) + (b^3*B*d^2*x^(6*n))/(1+m+6*n))

Maple [C] (warning: unable to verify)

Result contains higher order function than in optimal. Order 9 vs. order 3.

Time = 7.88 (sec) , antiderivative size = 11356, normalized size of antiderivative = 35.71

method	result	size
risch	Expression too large to display	11356
parallelrisch	Expression too large to display	15203

[In] int((e*x)^m*(a+b*x^n)^3*(A+B*x^n)*(c+d*x^n)^2,x,method=_RETURNVERBOSE)

[Out] result too large to display

Fricas [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 6638 vs. $2(318) = 636$.

Time = 0.46 (sec) , antiderivative size = 6638, normalized size of antiderivative = 20.87

$$\int (ex)^m (a + bx^n)^3 (A + Bx^n) (c + dx^n)^2 dx = \text{Too large to display}$$

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

[Out] Too large to include

Sympy [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 168099 vs. $2(321) = 642$.

Time = 23.35 (sec) , antiderivative size = 168099, normalized size of antiderivative = 528.61

$$\int (ex)^m (a + bx^n)^3 (A + Bx^n) (c + dx^n)^2 dx = \text{Too large to display}$$

[In] integrate((e*x)**m*(a+b*x**n)**3*(A+B*x**n)*(c+d*x**n)**2,x)

[Out] Piecewise(((A + B)*(a + b)**3*(c + d)**2*log(x)/e, Eq(m, -1) & Eq(n, 0)), ((A**3*c**2*log(x) + 2*A**3*c*d*x**n/n + A**3*d**2*x**(2*n)/(2*n) + 3*A**2*b*c**2*x**n/n + 3*A**2*b*c*d*x**(2*n)/n + A**2*b*d**2*x**(3*n)/n + 3*A*a*b**2*c**2*x**(2*n)/(2*n) + 2*A*a*b**2*c*d*x**(3*n)/n + 3*A*a*b**2*d**2*x**(4*n)/(4*n) + A*b**3*c**2*x**(3*n)/(3*n) + A*b**3*c*d*x**(4*n)/(2*n) + A*b**3*d**2*x**(5*n)/(5*n) + B*a**3*c**2*x**n/n + B*a**3*c*d*x**(2*n)/n + B*a**3*d**2*x**(3*n)/(3*n) + 3*B*a**2*b*c**2*x**(2*n)/(2*n) + 2*B*a**2*b*c*d*x**(3*n)/n + 3*B*a**2*b*d**2*x**(4*n)/(4*n) + B*a*b**2*c**2*x**(3*n)/n + 3*B*a*b**2*c*d*x**(4*n)/(2*n) + 3*B*a*b**2*d**2*x**(5*n)/(5*n) + B*b**3*c**2*x**(4*n)/(4*n) + 2*B*b**3*c*d*x**(5*n)/(5*n) + B*b**3*d**2*x**(6*n)/(6*n))/e, Eq(m, -1)), (A**3*c**2*Piecewise((0**(-6*n - 1)*x, Eq(e, 0)), (Piecewise((-1/(6*n*(e*x)**(6*n)), Ne(n, 0)), (log(e*x), True))/e, True)) + 2*A**3*c*d*Piecewise((-x*x**n*(e*x)**(-6*n - 1)/(5*n), Ne(n, 0)), (x*x**n*(e*x)**(-6*n - 1)*log(x), True)) + A**3*d**2*Piecewise((-x*x**(2*n)*(e*x)**(-6*n - 1)/(4*n), Ne(n, 0)), (x*x**(2*n)*(e*x)**(-6*n - 1)*log(x), True)) + 3*A**2*b*c**2*Piecewise((-x*x**n*(e*x)**(-6*n - 1)/(5*n), Ne(n, 0)), (x*x**n*(e*x)**(-6*n - 1)*log(x), True)) + 6*A**2*b*c*d*Piecewise((-x*x**(2*n)*(e*x)**(-6*n - 1)/(4*n), Ne(n, 0)), (x*x**(2*n)*(e*x)**(-6*n - 1)*log(x), True)) + 3*A**2*b*d**2*Piecewise((-x*x**(3*n)*(e*x)**(-6*n - 1)/(3*n), Ne(n, 0)), (x*x**(3*n)*(e*x)**(-6*n - 1)*log(x), True)) + 3*A*a*b**2*c**2*Piecewise((-x*x**(2*n)*(e*x)**(-6*n - 1)/(4*n), Ne(n, 0)), (x*x**(2*n)*(e*x)**(-6*n - 1)*log(x), True)) + 6*A*a*b**2*c*d*Piecewise((-x*x**(3*n)*(e*x)**(-6*n - 1)/(3*n), Ne(n, 0)), (x*x**(3*n)*(e*x)**(-6*n - 1)*log(x), True))

$$\begin{aligned}
& + 3Aa*b**2*d**2*Piecewise((-x*x**(4*n)*(e*x)**(-6*n - 1)/(2*n), Ne(n, 0)) \\
& , (x*x**(4*n)*(e*x)**(-6*n - 1)*log(x), True)) + A*b**3*c**2*Piecewise((-x* \\
& x**(3*n)*(e*x)**(-6*n - 1)/(3*n), Ne(n, 0)), (x*x**(3*n)*(e*x)**(-6*n - 1)* \\
& log(x), True)) + 2A*b**3*c*d*Piecewise((-x*x**(4*n)*(e*x)**(-6*n - 1)/(2*n \\
&), Ne(n, 0)), (x*x**(4*n)*(e*x)**(-6*n - 1)*log(x), True)) + A*b**3*d**2*Pi \\
& ecewise((-x*x**(5*n)*(e*x)**(-6*n - 1)/n, Ne(n, 0)), (x*x**(5*n)*(e*x)**(-6 \\
& *n - 1)*log(x), True)) + B*a**3*c**2*Piecewise((-x*x**n*(e*x)**(-6*n - 1)/(\\
& 5*n), Ne(n, 0)), (x*x**n*(e*x)**(-6*n - 1)*log(x), True)) + 2B*a**3*c*d*Pi \\
& ecewise((-x*x**(2*n)*(e*x)**(-6*n - 1)/(4*n), Ne(n, 0)), (x*x**(2*n)*(e*x)* \\
& *(-6*n - 1)*log(x), True)) + B*a**3*d**2*Piecewise((-x*x**(3*n)*(e*x)**(-6* \\
& n - 1)/(3*n), Ne(n, 0)), (x*x**(3*n)*(e*x)**(-6*n - 1)*log(x), True)) + 3B \\
& *a**2*b*c**2*Piecewise((-x*x**(2*n)*(e*x)**(-6*n - 1)/(4*n), Ne(n, 0)), (x* \\
& x**(2*n)*(e*x)**(-6*n - 1)*log(x), True)) + 6B*a**2*b*c*d*Piecewise((-x*x* \\
& *(3*n)*(e*x)**(-6*n - 1)/(3*n), Ne(n, 0)), (x*x**(3*n)*(e*x)**(-6*n - 1)*lo \\
& g(x), True)) + 3B*a**2*b*d**2*Piecewise((-x*x**(4*n)*(e*x)**(-6*n - 1)/(2* \\
& n), Ne(n, 0)), (x*x**(4*n)*(e*x)**(-6*n - 1)*log(x), True)) + 3B*a*b**2*c* \\
& **2*Piecewise((-x*x**(3*n)*(e*x)**(-6*n - 1)/(3*n), Ne(n, 0)), (x*x**(3*n)*(\\
& e*x)**(-6*n - 1)*log(x), True)) + 6B*a*b**2*c*d*Piecewise((-x*x**(4*n)*(e* \\
& x)**(-6*n - 1)/(2*n), Ne(n, 0)), (x*x**(4*n)*(e*x)**(-6*n - 1)*log(x), True \\
&)) + 3B*a*b**2*d**2*Piecewise((-x*x**(5*n)*(e*x)**(-6*n - 1)/n, Ne(n, 0)), \\
& (x*x**(5*n)*(e*x)**(-6*n - 1)*log(x), True)) + B*b**3*c**2*Piecewise((-x*x \\
& **4*n*(e*x)**(-6*n - 1)/(2*n), Ne(n, 0)), (x*x**4*n*(e*x)**(-6*n - 1)*l \\
& og(x), True)) + 2B*b**3*c*d*Piecewise((-x*x**(5*n)*(e*x)**(-6*n - 1)/n, Ne \\
& (n, 0)), (x*x**(5*n)*(e*x)**(-6*n - 1)*log(x), True)) + B*b**3*d**2*x*x**(6 \\
& *n)*(e*x)**(-6*n - 1)*log(x), Eq(m, -6*n - 1)), (A*a**3*c**2*Piecewise((0** \\
& (-5*n - 1)*x, Eq(e, 0)), (Piecewise((-1/(5*n*(e*x)**(5*n))), Ne(n, 0)), (log \\
& (e*x), True))/e, True)) + 2A*a**3*c*d*Piecewise((-x*x**n*(e*x)**(-5*n - 1) \\
& /(4*n), Ne(n, 0)), (x*x**n*(e*x)**(-5*n - 1)*log(x), True)) + A*a**3*d**2*P \\
& iecewise((-x*x**(2*n)*(e*x)**(-5*n - 1)/(3*n), Ne(n, 0)), (x*x**(2*n)*(e*x) \\
& **(-5*n - 1)*log(x), True)) + 3A*a**2*b*c**2*Piecewise((-x*x**n*(e*x)**(-5 \\
& *n - 1)/(4*n), Ne(n, 0)), (x*x**n*(e*x)**(-5*n - 1)*log(x), True)) + 6A*a* \\
& **2*b*c*d*Piecewise((-x*x**(2*n)*(e*x)**(-5*n - 1)/(3*n), Ne(n, 0)), (x*x**(\\
& 2*n)*(e*x)**(-5*n - 1)*log(x), True)) + 3A*a**2*b*d**2*Piecewise((-x*x**(3 \\
& *n)*(e*x)**(-5*n - 1)/(2*n), Ne(n, 0)), (x*x**(3*n)*(e*x)**(-5*n - 1)*log(x \\
&), True)) + 3A*a*b**2*c**2*Piecewise((-x*x**(2*n)*(e*x)**(-5*n - 1)/(3*n), \\
& Ne(n, 0)), (x*x**(2*n)*(e*x)**(-5*n - 1)*log(x), True)) + 6A*a*b**2*c*d*P \\
& iecewise((-x*x**(3*n)*(e*x)**(-5*n - 1)/(2*n), Ne(n, 0)), (x*x**(3*n)*(e*x) \\
& **(-5*n - 1)*log(x), True)) + 3A*a*b**2*d**2*Piecewise((-x*x**(4*n)*(e*x)* \\
& *(-5*n - 1)/n, Ne(n, 0)), (x*x**(4*n)*(e*x)**(-5*n - 1)*log(x), True)) + A* \\
& b**3*c**2*Piecewise((-x*x**(3*n)*(e*x)**(-5*n - 1)/(2*n), Ne(n, 0)), (x*x** \\
& (3*n)*(e*x)**(-5*n - 1)*log(x), True)) + 2A*b**3*c*d*Piecewise((-x*x**(4*n \\
&)*(e*x)**(-5*n - 1)/n, Ne(n, 0)), (x*x**(4*n)*(e*x)**(-5*n - 1)*log(x), Tru \\
& e)) + A*b**3*d**2*x*x**(5*n)*(e*x)**(-5*n - 1)*log(x) + B*a**3*c**2*Piecwi \\
& se((-x*x**n*(e*x)**(-5*n - 1)/(4*n), Ne(n, 0)), (x*x**n*(e*x)**(-5*n - 1)*l \\
& og(x), True)) + 2B*a**3*c*d*Piecewise((-x*x**(2*n)*(e*x)**(-5*n - 1)/(3*n)
\end{aligned}$$

, $Ne(n, 0)$), $(x^{2n}(e^x)^{-5n-1} \log(x), \text{True})) + B a^{3d} 2 \text{Piecewise}((-x^{3n}(e^x)^{-5n-1}/(2n), Ne(n, 0)), (x^{3n}(e^x)^{-5n-1} \log(x), \text{True})) + 3 B a^{2b} c^{2d} \text{Piecewise}((-x^{2n}(e^x)^{-5n-1}/(3n), Ne(n, 0)), (x^{2n}(e^x)^{-5n-1} \log(x), \text{True})) + 6 B a^{2b} c d \text{Piecewise}((-x^{3n}(e^x)^{-5n-1}/(2n), Ne(n, 0)), (x^{3n}(e^x)^{-5n-1} \log(x), \text{True})) + 3 B a^{2b} d^{2d} \text{Piecewise}((-x^{4n}(e^x)^{-5n-1}/n, Ne(n, 0)), (x^{4n}(e^x)^{-5n-1} \log(x), \text{True})) + 3 B a b^{2c} d^{2d} \text{Piecewise}((-x^{3n}(e^x)^{-5n-1}/(2n), Ne(n, 0)), (x^{3n}(e^x)^{-5n-1} \log(x), \text{True})) + 6 B a b^{2c} d \text{Piecewise}((-x^{4n}(e^x)^{-5n-1}/n, Ne(n, 0)), (x^{4n}(e^x)^{-5n-1} \log(x), \text{True})) + 3 B a b^{2d} x^{5n} (e^x)^{-5n-1} \log(x) + B b^{3c} d^{2d} \text{Piecewise}((-x^{4n}(e^x)^{-5n-1}/n, Ne(n, 0)), (x^{4n}(e^x)^{-5n-1} \log(x), \text{True})) + 2 B b^{3c} d x^{5n} (e^x)^{-5n-1} \log(x) + B b^{3d} d^{2d} \text{Piecewise}((x^{6n}(e^x)^{-5n-1}/n, Ne(n, 0)), (x^{6n}(e^x)^{-5n-1} \log(x), \text{True})), Eq(m, -5n-1))$

, $(A a^{3c} d^{2d} \text{Piecewise}(0^{(-4n-1)x}, Eq(e, 0)), (\text{Piecewise}(-1/(4n(e^x)^{4n}), Ne(n, 0)), (\log(e^x), \text{True}))/e, \text{True})) + 2 A a^{3c} d \text{Piecewise}((-x^{4n}(e^x)^{-4n-1}/(3n), Ne(n, 0)), (x^{4n}(e^x)^{-4n-1} \log(x), \text{True})) + A a^{3d} d^{2d} \text{Piecewise}((-x^{2n}(e^x)^{-4n-1}/(2n), Ne(n, 0)), (x^{2n}(e^x)^{-4n-1} \log(x), \text{True})) + 3 A a^{2b} c^{2d} \text{Piecewise}((-x^{4n}(e^x)^{-4n-1}/(3n), Ne(n, 0)), (x^{4n}(e^x)^{-4n-1} \log(x), \text{True})) + 6 A a^{2b} c d \text{Piecewise}((-x^{2n}(e^x)^{-4n-1}/(2n), Ne(n, 0)), (x^{2n}(e^x)^{-4n-1} \log(x), \text{True})) + 3 A a^{2b} d^{2d} \text{Piecewise}((-x^{3n}(e^x)^{-4n-1}/n, Ne(n, 0)), (x^{3n}(e^x)^{-4n-1} \log(x), \text{True})) + 3 A a b^{2c} d^{2d} \text{Piecewise}((-x^{2n}(e^x)^{-4n-1}/(2n), Ne(n, 0)), (x^{2n}(e^x)^{-4n-1} \log(x), \text{True})) + 6 A a b^{2c} d \text{Piecewise}((-x^{3n}(e^x)^{-4n-1}/n, Ne(n, 0)), (x^{3n}(e^x)^{-4n-1} \log(x), \text{True})) + 3 A a b^{2d} x^{4n} (e^x)^{-4n-1} \log(x) + A b^{3c} d^{2d} \text{Piecewise}((-x^{3n}(e^x)^{-4n-1}/n, Ne(n, 0)), (x^{3n}(e^x)^{-4n-1} \log(x), \text{True})) + 2 A b^{3c} d x^{4n} (e^x)^{-4n-1} \log(x) + A b^{3d} d^{2d} \text{Piecewise}((x^{5n}(e^x)^{-4n-1}/n, Ne(n, 0)), (x^{5n}(e^x)^{-4n-1} \log(x), \text{True})) + B a^{3c} d^{2d} \text{Piecewise}((-x^{4n}(e^x)^{-4n-1}/(3n), Ne(n, 0)), (x^{4n}(e^x)^{-4n-1} \log(x), \text{True})) + 2 B a^{3c} d \text{Piecewise}((-x^{2n}(e^x)^{-4n-1}/(2n), Ne(n, 0)), (x^{2n}(e^x)^{-4n-1} \log(x), \text{True})) + B a^{3d} d^{2d} \text{Piecewise}((-x^{3n}(e^x)^{-4n-1}/n, Ne(n, 0)), (x^{3n}(e^x)^{-4n-1} \log(x), \text{True})) + 3 B a^{2b} c^{2d} \text{Piecewise}((-x^{2n}(e^x)^{-4n-1}/(2n), Ne(n, 0)), (x^{2n}(e^x)^{-4n-1} \log(x), \text{True})) + 6 B a^{2b} c d \text{Piecewise}((-x^{3n}(e^x)^{-4n-1}/n, Ne(n, 0)), (x^{3n}(e^x)^{-4n-1} \log(x), \text{True})) + 3 B a^{2b} d^{2d} x^{4n} (e^x)^{-4n-1} \log(x) + 3 B a b^{2c} d^{2d} \text{Piecewise}((-x^{3n}(e^x)^{-4n-1}/n, Ne(n, 0)), (x^{3n}(e^x)^{-4n-1} \log(x), \text{True})) + 6 B a b^{2c} d x^{4n} (e^x)^{-4n-1} \log(x) + 3 B a b^{2d} d^{2d} \text{Piecewise}((x^{5n}(e^x)^{-4n-1}/n, Ne(n, 0)), (x^{5n}(e^x)^{-4n-1} \log(x), \text{True})) + B b^{3c} d^{2d} x^{4n} (e^x)^{-4n-1} \log(x)$

$g(x) + 2*B*b**3*c*d*Piecewise((x*x**(5*n)*(e*x)**(-4*n - 1)/n, Ne(n, 0)), (x*x**(5*n)*(e*x)**(-4*n - 1)*log(x), True)) + B*b**3*d**2*Piecewise((x*x**(6*n)*(e*x)**(-4*n - 1)/(2*n), Ne(n, 0)), (x*x**(6*n)*(e*x)**(-4*n - 1)*log(x), True)), Eq(m, -4*n - 1)), (A*a**3*c**2*Piecewise((0**(-3*n - 1)*x, Eq(e, 0)), (Piecewise((-1/(3*n*(e*x)**(3*n))), Ne(n, 0)), (log(e*x), True))/e, True)) + 2*A*a**3*c*d*Piecewise((-x*x**n*(e*x)**(-3*n - 1)/(2*n), Ne(n, 0)), (x*x**n*(e*x)**(-3*n - 1)*log(x), True)) + A*a**3*d**2*Piecewise((-x*x**(2*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x*x**(2*n)*(e*x)**(-3*n - 1)*log(x), True)) + 3*A*a**2*b*c**2*Piecewise((-x*x**n*(e*x)**(-3*n - 1)/(2*n), Ne(n, 0)), (x*x**n*(e*x)**(-3*n - 1)*log(x), True)) + 6*A*a**2*b*c*d*Piecewise((-x*x**(2*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x*x**(2*n)*(e*x)**(-3*n - 1)*log(x), True)) + 3*A*a**2*b*d**2*x*x**(3*n)*(e*x)**(-3*n - 1)*log(x) + 3*A*a*b**2*c**2*Piecewise((-x*x**(2*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x*x**(2*n)*(e*x)**(-3*n - 1)*log(x), True)) + 6*A*a*b**2*c*d*x*x**(3*n)*(e*x)**(-3*n - 1)*log(x) + 3*A*a*b**2*d**2*Piecewise((x*x**(4*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x*x**(4*n)*(e*x)**(-3*n - 1)*log(x), True)) + A*b**3*c**2*x*x**(3*n)*(e*x)**(-3*n - 1)*log(x) + 2*A*b**3*c*d*Piecewise((x*x**(4*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x*x**(4*n)*(e*x)**(-3*n - 1)*log(x), True)) + A*b**3*d**2*Piecewise((x*x**(5*n)*(e*x)**(-3*n - 1)/(2*n), Ne(n, 0)), (x*x**(5*n)*(e*x)**(-3*n - 1)*log(x), True)) + B*a**3*c**2*Piecewise((-x*x**n*(e*x)**(-3*n - 1)/(2*n), Ne(n, 0)), (x*x**n*(e*x)**(-3*n - 1)*log(x), True)) + 2*B*a**3*c*d*Piecewise((-x*x**(2*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x*x**(2*n)*(e*x)**(-3*n - 1)*log(x), True)) + B*a**3*d**2*x*x**(3*n)*(e*x)**(-3*n - 1)*log(x) + 3*B*a**2*b*c**2*Piecewise((-x*x**(2*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x*x**(2*n)*(e*x)**(-3*n - 1)*log(x), True)) + 6*B*a**2*b*c*d*x*x**(3*n)*(e*x)**(-3*n - 1)*log(x) + 3*B*a**2*b*d**2*Piecewise((x*x**(4*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x*x**(4*n)*(e*x)**(-3*n - 1)*log(x), True)) + 3*B*a*b**2*c**2*x*x**(3*n)*(e*x)**(-3*n - 1)*log(x) + 6*B*a*b**2*c*d*Piecewise((x*x**(4*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x*x**(4*n)*(e*x)**(-3*n - 1)*log(x), True)) + 3*B*a*b**2*d**2*Piecewise((x*x**(5*n)*(e*x)**(-3*n - 1)/(2*n), Ne(n, 0)), (x*x**(5*n)*(e*x)**(-3*n - 1)*log(x), True)) + B*b**3*c**2*Piecewise((x*x**(4*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x*x**(4*n)*(e*x)**(-3*n - 1)*log(x), True)) + 2*B*b**3*c*d*Piecewise((x*x**(5*n)*(e*x)**(-3*n - 1)/(2*n), Ne(n, 0)), (x*x**(5*n)*(e*x)**(-3*n - 1)*log(x), True)) + B*b**3*d**2*Piecewise((x*x**(6*n)*(e*x)**(-3*n - 1)/(3*n), Ne(n, 0)), (x*x**(6*n)*(e*x)**(-3*n - 1)*log(x), True)), Eq(m, -3*n - 1)), (A*a**3*c**2*Piecewise((0**(-2*n - 1)*x, Eq(e, 0)), (Piecewise((-1/(2*n*(e*x)**(2*n))), Ne(n, 0)), (log(e*x), True))/e, True)) + 2*A*a**3*c*d*Piecewise((-x*x**n*(e*x)**(-2*n - 1)/n, Ne(n, 0)), (x*x**n*(e*x)**(-2*n - 1)*log(x), True)) + A*a**3*d**2*x*x**(2*n)*(e*x)**(-2*n - 1)*log(x) + 3*A*a**2*b*c**2*Piecewise((-x*x**n*(e*x)**(-2*n - 1)/n, Ne(n, 0)), (x*x**n*(e*x)**(-2*n - 1)*log(x), True)) + 6*A*a**2*b*c*d*x*x**(2*n)*(e*x)**(-2*n - 1)*log(x) + 3*A*a**2*b*d**2*Piecewise((x*x**(3*n)*(e*x)**(-2*n - 1)/n, Ne(n, 0)), (x*x**(3*n)*(e*x)**(-2*n - 1)*log(x), True)) + 3*A*a*b**2*c**2*x*x**(2*n)*(e*x)**(-2*n - 1)*log(x) + 6*A*a*b**2*c*d*Piecewise((x*x**(3*n)*(e*x)**(-2*n - 1)/n, Ne(n, 0)), (x*x**$

$(3^n)*(e^x)^{-2n-1} \log(x), \text{True}) + 3*A*a*b^{**2}*d^{**2}*\text{Piecewise}((x^{**4}*(e^x)^{-2n-1}/(2^n), \text{Ne}(n, 0)), (x^{**4}*(e^x)^{-2n-1} \log(x), \text{True})) + A*b^{**3}*c^{**2}*\text{Piecewise}((x^{**3}*(e^x)^{-2n-1}/n, \text{Ne}(n, 0)), (x^{**3}*(e^x)^{-2n-1} \log(x), \text{True})) + 2*A*b^{**3}*c*d*\text{Piecewise}((x^{**4}*(e^x)^{-2n-1}/(2^n), \text{Ne}(n, 0)), (x^{**4}*(e^x)^{-2n-1} \log(x), \text{True})) + A*b^{**3}*d^{**2}*\text{Piecewise}((x^{**5}*(e^x)^{-2n-1}/(3^n), \text{Ne}(n, 0)), (x^{**5}*(e^x)^{-2n-1} \log(x), \text{True})) + B*a^{**3}*c^{**2}*\text{Piecewise}((-x^{**n}*(e^x)^{-2n-1}/n, \text{Ne}(n, 0)), (x^{**n}*(e^x)^{-2n-1} \log(x), \text{True})) + 2*B*a^{**3}*c*d*x^{**2}*(e^x)^{-2n-1} \log(x) + B*a^{**3}*d^{**2}*\text{Piecewise}((x^{**3}*(e^x)^{-2n-1}/n, \text{Ne}(n, 0)), (x^{**3}*(e^x)^{-2n-1} \log(x), \text{True})) + 3*B*a^{**2}*b*c^{**2}*x^{**2}*(e^x)^{-2n-1} \log(x) + 6*B*a^{**2}*b*c*d*\text{Piecewise}((x^{**3}*(e^x)^{-2n-1}/n, \text{Ne}(n, 0)), (x^{**3}*(e^x)^{-2n-1} \log(x), \text{True})) + 3*B*a^{**2}*b*d^{**2}*\text{Piecewise}((x^{**4}*(e^x)^{-2n-1}/(2^n), \text{Ne}(n, 0)), (x^{**4}*(e^x)^{-2n-1} \log(x), \text{True})) + 3*B*a*b^{**2}*c^{**2}*\text{Piecewise}((x^{**3}*(e^x)^{-2n-1}/n, \text{Ne}(n, 0)), (x^{**3}*(e^x)^{-2n-1} \log(x), \text{True})) + 6*B*a*b^{**2}*c*d*\text{Piecewise}((x^{**4}*(e^x)^{-2n-1}/(2^n), \text{Ne}(n, 0)), (x^{**4}*(e^x)^{-2n-1} \log(x), \text{True})) + 3*B*a*b^{**2}*d^{**2}*\text{Piecewise}((x^{**5}*(e^x)^{-2n-1}/(3^n), \text{Ne}(n, 0)), (x^{**5}*(e^x)^{-2n-1} \log(x), \text{True})) + B*b^{**3}*c^{**2}*\text{Piecewise}((x^{**4}*(e^x)^{-2n-1}/(2^n), \text{Ne}(n, 0)), (x^{**4}*(e^x)^{-2n-1} \log(x), \text{True})) + 2*B*b^{**3}*c*d*\text{Piecewise}((x^{**5}*(e^x)^{-2n-1}/(3^n), \text{Ne}(n, 0)), (x^{**5}*(e^x)^{-2n-1} \log(x), \text{True})) + B*b^{**3}*d^{**2}*\text{Piecewise}((x^{**6}*(e^x)^{-2n-1}/(4^n), \text{Ne}(n, 0)), (x^{**6}*(e^x)^{-2n-1} \log(x), \text{True})), \text{Eq}(m, -2n-1)), (A*a^{**3}*c^{**2}*\text{Piecewise}((0^{**(-n-1)}*x, \text{Eq}(e, 0)), (\text{Piecewise}((-1/(n*(e^x)^n), \text{Ne}(n, 0)), (\log(e^x), \text{True}))/e, \text{True})) + 2*A*a^{**3}*c*d*x^{**n}*(e^x)^{-n-1} \log(x) + A*a^{**3}*d^{**2}*\text{Piecewise}((x^{**2}*(e^x)^{-n-1}/n, \text{Ne}(n, 0)), (x^{**2}*(e^x)^{-n-1} \log(x), \text{True})) + 3*A*a^{**2}*b*c^{**2}*x^{**n}*(e^x)^{-n-1} \log(x) + 6*A*a^{**2}*b*c*d*\text{Piecewise}((x^{**2}*(e^x)^{-n-1}/n, \text{Ne}(n, 0)), (x^{**2}*(e^x)^{-n-1} \log(x), \text{True})) + 3*A*a^{**2}*b*d^{**2}*\text{Piecewise}((x^{**3}*(e^x)^{-n-1}/(2^n), \text{Ne}(n, 0)), (x^{**3}*(e^x)^{-n-1} \log(x), \text{True})) + 3*A*a*b^{**2}*c^{**2}*\text{Piecewise}((x^{**2}*(e^x)^{-n-1}/n, \text{Ne}(n, 0)), (x^{**2}*(e^x)^{-n-1} \log(x), \text{True})) + 6*A*a*b^{**2}*c*d*\text{Piecewise}((x^{**3}*(e^x)^{-n-1}/(2^n), \text{Ne}(n, 0)), (x^{**3}*(e^x)^{-n-1} \log(x), \text{True})) + 3*A*a*b^{**2}*d^{**2}*\text{Piecewise}((x^{**4}*(e^x)^{-n-1}/(3^n), \text{Ne}(n, 0)), (x^{**4}*(e^x)^{-n-1} \log(x), \text{True})) + A*b^{**3}*c^{**2}*\text{Piecewise}((x^{**3}*(e^x)^{-n-1}/(2^n), \text{Ne}(n, 0)), (x^{**3}*(e^x)^{-n-1} \log(x), \text{True})) + 2*A*b^{**3}*c*d*\text{Piecewise}((x^{**4}*(e^x)^{-n-1}/(3^n), \text{Ne}(n, 0)), (x^{**4}*(e^x)^{-n-1} \log(x), \text{True})) + A*b^{**3}*d^{**2}*\text{Piecewise}((x^{**5}*(e^x)^{-n-1}/(4^n), \text{Ne}(n, 0)), (x^{**5}*(e^x)^{-n-1} \log(x), \text{True})) + B*a^{**3}*c^{**2}*x^{**n}*(e^x)^{-n-1} \log(x) + 2*B*a^{**3}*c*d*\text{Piecewise}((x^{**2}*(e^x)^{-n-1}/n, \text{Ne}(n, 0)), (x^{**2}*(e^x)^{-n-1} \log(x), \text{True})) + B*a^{**3}*d^{**2}*\text{Piecewise}((x^{**3}*(e^x)^{-n-1}/(2^n), \text{Ne}(n, 0)), (x^{**3}*(e^x)^{-n-1} \log(x), \text{True})) + 3*B*a^{**2}*b*c^{**2}*\text{Piecewise}((x^{**2}*(e^x)^{-n-1}/n, \text{Ne}(n, 0)), (x^{**2}*(e^x)^{-n-1} \log(x), \text{True}))$

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*(2*n)*(e*x)**(-n - 1)*log(x), True)) + 6*B*a**2*b*c*d*Piecewise((x*x**(3*n)
)*(e*x)**(-n - 1)/(2*n), Ne(n, 0)), (x*x**(3*n)*(e*x)**(-n - 1)*log(x), Tru
e)) + 3*B*a**2*b*d**2*Piecewise((x*x**(4*n)*(e*x)**(-n - 1)/(3*n), Ne(n, 0)
), (x*x**(4*n)*(e*x)**(-n - 1)*log(x), True)) + 3*B*a*b**2*c**2*Piecewise((
x*x**(3*n)*(e*x)**(-n - 1)/(2*n), Ne(n, 0)), (x*x**(3*n)*(e*x)**(-n - 1)*lo
g(x), True)) + 6*B*a*b**2*c*d*Piecewise((x*x**(4*n)*(e*x)**(-n - 1)/(3*n),
Ne(n, 0)), (x*x**(4*n)*(e*x)**(-n - 1)*log(x), True)) + 3*B*a*b**2*d**2*Pie
cewise((x*x**(5*n)*(e*x)**(-n - 1)/(4*n), Ne(n, 0)), (x*x**(5*n)*(e*x)**(-n
- 1)*log(x), True)) + B*b**3*c**2*Piecewise((x*x**(4*n)*(e*x)**(-n - 1)/(3
*n), Ne(n, 0)), (x*x**(4*n)*(e*x)**(-n - 1)*log(x), True)) + 2*B*b**3*c*d*P
iecewise((x*x**(5*n)*(e*x)**(-n - 1)/(4*n), Ne(n, 0)), (x*x**(5*n)*(e*x)**(-
n - 1)*log(x), True)) + B*b**3*d**2*Piecewise((x*x**(6*n)*(e*x)**(-n - 1)/
(5*n), Ne(n, 0)), (x*x**(6*n)*(e*x)**(-n - 1)*log(x), True)), Eq(m, -n - 1)
), (A*a**3*c**2*m**6*x*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2
+ 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**
*4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**
3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315
*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 +
875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 +
175*n**2 + 21*n + 1) + 21*A*a**3*c**2*m**5*n*x*(e*x)**m/(m**7 + 21*m**6*n +
7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n
**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**
*2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**
3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872
*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 +
1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 6*A*a**3*c**2*m**5*x*(e*x)**
m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m
**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**
3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2
*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6
+ 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 7
20*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 175*A*a
**3*c**2*m**4*n**2*x*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 +
126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4
+ 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3
+ 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m
**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 87
5*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 17
5*n**2 + 21*n + 1) + 105*A*a**3*c**2*m**4*n*x*(e*x)**m/(m**7 + 21*m**6*n +
7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n
**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**
2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3
+ 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*
m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 +
1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 15*A*a**3*c**2*m**4*x*(e*x)**

```


$$\begin{aligned}
& m^{**5}n^{**2} + 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} + 875m^{**4}n^{**2} + 315m^{**4} \\
& *n + 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n \\
& n + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2}n \\
& n^{**2} + 315m^{**2}n + 21m^{**2} + 720m^{**1}n^{**6} + 3528m^{**1}n^{**5} + 4872m^{**1}n^{**4} + 2940 \\
& *m^{**1}n^{**3} + 875m^{**1}n^{**2} + 126m^{**1}n + 7m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 7 \\
& 35n^{**3} + 175n^{**2} + 21n + 1) + 210Aa^{**3}c^{**2}m^{**2}n^{**1}x^{**1}(e^{**x})^{**m}/(m^{**7} + \\
& 21m^{**6}n + 7m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} + \\
& 875m^{**4}n^{**2} + 315m^{**4}n + 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 1 \\
& 750m^{**3}n^{**2} + 420m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 44 \\
& 10m^{**2}n^{**3} + 1750m^{**2}n^{**2} + 315m^{**2}n + 21m^{**2} + 720m^{**1}n^{**6} + 3528m^{**1} \\
& n^{**5} + 4872m^{**1}n^{**4} + 2940m^{**1}n^{**3} + 875m^{**1}n^{**2} + 126m^{**1}n + 7m + 720n^{**6} + \\
& 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21n + 1) + 15Aa^{**3}c^{**2}m^{**2} \\
& *x^{**2}(e^{**x})^{**m}/(m^{**7} + 21m^{**6}n + 7m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n + 21m^{**5} \\
& + 735m^{**4}n^{**3} + 875m^{**4}n^{**2} + 315m^{**4}n + 35m^{**4} + 1624m^{**3}n^{**4} \\
& + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**5} \\
& + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2}n^{**2} + 315m^{**2}n + 21m^{**2} \\
& + 720m^{**1}n^{**6} + 3528m^{**1}n^{**5} + 4872m^{**1}n^{**4} + 2940m^{**1}n^{**3} + 875m^{**1}n^{**2} + 126m^{**1} \\
& *n + 7m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21n + \\
& 1) + 1764Aa^{**3}c^{**2}m^{**1}n^{**5}x^{**1}(e^{**x})^{**m}/(m^{**7} + 21m^{**6}n + 7m^{**6} + 175m^{**5} \\
& *n^{**2} + 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} + 875m^{**4}n^{**2} + 315m^{**4}n \\
& + 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n \\
& + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2}n^{**2} \\
& + 315m^{**2}n + 21m^{**2} + 720m^{**1}n^{**6} + 3528m^{**1}n^{**5} + 4872m^{**1}n^{**4} + 2940m^{**1} \\
& *n^{**3} + 875m^{**1}n^{**2} + 126m^{**1}n + 7m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 735 \\
& *n^{**3} + 175n^{**2} + 21n + 1) + 3248Aa^{**3}c^{**2}m^{**1}n^{**4}x^{**1}(e^{**x})^{**m}/(m^{**7} + 2 \\
& 1m^{**6}n + 7m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} + \\
& 875m^{**4}n^{**2} + 315m^{**4}n + 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 17 \\
& 50m^{**3}n^{**2} + 420m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 441 \\
& 0m^{**2}n^{**3} + 1750m^{**2}n^{**2} + 315m^{**2}n + 21m^{**2} + 720m^{**1}n^{**6} + 3528m^{**1} \\
& **5 + 4872m^{**1}n^{**4} + 2940m^{**1}n^{**3} + 875m^{**1}n^{**2} + 126m^{**1}n + 7m + 720n^{**6} + 1 \\
& 764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21n + 1) + 2205Aa^{**3}c^{**2}m^{**1} \\
& *n^{**3}x^{**1}(e^{**x})^{**m}/(m^{**7} + 21m^{**6}n + 7m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n + \\
& 21m^{**5} + 735m^{**4}n^{**3} + 875m^{**4}n^{**2} + 315m^{**4}n + 35m^{**4} + 1624m^{**3}n^{**4} \\
& n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**5} \\
& **5 + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2}n^{**2} + 315m^{**2}n + 21m^{**2} \\
& *2 + 720m^{**1}n^{**6} + 3528m^{**1}n^{**5} + 4872m^{**1}n^{**4} + 2940m^{**1}n^{**3} + 875m^{**1}n^{**2} + 12 \\
& 6m^{**1}n + 7m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21n \\
& + 1) + 700Aa^{**3}c^{**2}m^{**1}n^{**2}x^{**1}(e^{**x})^{**m}/(m^{**7} + 21m^{**6}n + 7m^{**6} + 175m^{**5} \\
& *n^{**2} + 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} + 875m^{**4}n^{**2} + 315m^{**4} \\
& *n + 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n \\
& n + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2}n \\
& n^{**2} + 315m^{**2}n + 21m^{**2} + 720m^{**1}n^{**6} + 3528m^{**1}n^{**5} + 4872m^{**1}n^{**4} + 2940 \\
& *m^{**1}n^{**3} + 875m^{**1}n^{**2} + 126m^{**1}n + 7m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 7 \\
& 35n^{**3} + 175n^{**2} + 21n + 1) + 105Aa^{**3}c^{**2}m^{**1}n^{**1}x^{**1}(e^{**x})^{**m}/(m^{**7} + 21m^{**6} \\
& *n + 7m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} + 87
\end{aligned}$$

$$\begin{aligned}
& 5m^{4n^2} + 315m^{4n} + 35m^4 + 1624m^{3n^4} + 2940m^{3n^3} + 1750 \\
& m^{3n^2} + 420m^{3n} + 35m^3 + 1764m^{2n^5} + 4872m^{2n^4} + 4410m \\
& m^{2n^3} + 1750m^{2n^2} + 315m^{2n} + 21m^2 + 720m^{n^6} + 3528m^{n^5} \\
& + 4872m^{n^4} + 2940m^{n^3} + 875m^{n^2} + 126m^n + 7m + 720n^6 + 176 \\
& 4n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 6Aa^3c^2m^x(e \\
& x)^m/(m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + \\
& 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 294 \\
& 0m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872 \\
& m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m \\
& n^6 + 3528m^{n^5} + 4872m^{n^4} + 2940m^{n^3} + 875m^{n^2} + 126m^n + 7m \\
& + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 72 \\
& 0Aa^3c^2n^6x(e^x)^m/(m^7 + 21m^6n + 7m^6 + 175m^5n^2 + \\
& 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + \\
& + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 \\
& + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m \\
& ^2n + 21m^2 + 720m^{n^6} + 3528m^{n^5} + 4872m^{n^4} + 2940m^{n^3} + 87 \\
& 5m^{n^2} + 126m^n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 17 \\
& 5n^2 + 21n + 1) + 1764Aa^3c^2n^5x(e^x)^m/(m^7 + 21m^6n + 7 \\
& m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 \\
& + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 \\
& + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^{n^6} + 3528m^{n^5} + 4872m \\
& n^4 + 2940m^{n^3} + 875m^{n^2} + 126m^n + 7m + 720n^6 + 1764n^5 + 1 \\
& 624n^4 + 735n^3 + 175n^2 + 21n + 1) + 1624Aa^3c^2n^4x(e^x) \\
& ^m/(m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m \\
& ^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3 \\
& n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2 \\
& n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^{n^6} + 3528m^{n^5} + 4872m^{n^4} + 2940m^{n^3} + 875m^{n^2} + 126m^n + 7m + \\
& 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 735Aa \\
& ^3c^2n^3x(e^x)^m/(m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m \\
& ^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1 \\
& 624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 17 \\
& 64m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n^* \\
& n + 21m^2 + 720m^{n^6} + 3528m^{n^5} + 4872m^{n^4} + 2940m^{n^3} + 875m^ \\
& n^2 + 126m^n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^* \\
& ^2 + 21n + 1) + 175Aa^3c^2n^2x(e^x)^m/(m^7 + 21m^6n + 7m^6 \\
& + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 3 \\
& 15m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 42 \\
& 0m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 175 \\
& 0m^2n^2 + 315m^2n + 21m^2 + 720m^{n^6} + 3528m^{n^5} + 4872m^{n^4} \\
& + 2940m^{n^3} + 875m^{n^2} + 126m^n + 7m + 720n^6 + 1764n^5 + 1624n \\
& ^4 + 735n^3 + 175n^2 + 21n + 1) + 21Aa^3c^2n^x(e^x)^m/(m^7 + \\
& 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 \\
& + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 +
\end{aligned}$$

$$\begin{aligned} & 1750*m^{*3}*n^{*2} + 420*m^{*3}*n + 35*m^{*3} + 1764*m^{*2}*n^{*5} + 4872*m^{*2}*n^{*4} + 4 \\ & 410*m^{*2}*n^{*3} + 1750*m^{*2}*n^{*2} + 315*m^{*2}*n + 21*m^{*2} + 720*m*n^{*6} + 3528*m \\ & *n^{*5} + 4872*m*n^{*4} + 2940*m*n^{*3} + 875*m*n^{*2} + 126*m*n + 7*m + 720*n^{*6} + \\ & 1764*n^{*5} + 1624*n^{*4} + 735*n^{*3} + 175*n^{*2} + 21*n + 1) + A*a^{*3}*c^{*2}*x*(e \\ & *x)**m/(m^{*7} + 21*m^{*6}*n + 7*m^{*6} + 175*m^{*5}*n^{*2} + 126*m^{*5}*n + 21*m^{*5} + \\ & 735*m^{*4}*n^{*3} + 875*m^{*4}*n^{*2} + 315*m^{*4}*n + 35*m^{*4} + 1624*m^{*3}*n^{*4} + 294 \\ & 0*m^{*3}*n^{*3} + 1750*m^{*3}*n^{*2} + 420*m^{*3}*n + 35*m^{*3} + 1764*m^{*2}*n^{*5} + 4872 \\ & *m^{*2}*n^{*4} + 4410*m^{*2}*n^{*3} + 1750*m^{*2}*n^{*2} + 315*m^{*2}*n + 21*m^{*2} + 720*m \\ & *n^{*6} + 3528*m*n^{*5} + 4872*m*n^{*4} + 2940*m*n^{*3} + 875*m*n^{*2} + 126*m*n + 7* \\ & m + 720*n^{*6} + 1764*n^{*5} + 1624*n^{*4} + 735*n^{*3} + 175*n^{*2} + 21*n + 1) + 2* \\ & A*a^{*3}*c*d*m^{*6}*x*x*n*(e*x)**m/(m^{*7} + 21*m^{*6}*n + 7*m^{*6} + 175*m^{*5}*n^{*2} \\ & + 126*m^{*5}*n + 21*m^{*5} + 735*m^{*4}*n^{*3} + 875*m^{*4}*n^{*2} + 315*m^{*4}*n + 35*m^{* \\ & *4} + 1624*m^{*3}*n^{*4} + 2940*m^{*3}*n^{*3} + 1750*m^{*3}*n^{*2} + 420*m^{*3}*n + 35*m^{* \\ & *3} + 1764*m^{*2}*n^{*5} + 4872*m^{*2}*n^{*4} + 4410*m^{*2}*n^{*3} + 1750*m^{*2}*n^{*2} + 315 \\ & *m^{*2}*n + 21*m^{*2} + 720*m*n^{*6} + 3528*m*n^{*5} + 4872*m*n^{*4} + 2940*m*n^{*3} + \\ & 875*m*n^{*2} + 126*m*n + 7*m + 720*n^{*6} + 1764*n^{*5} + 1624*n^{*4} + 735*n^{*3} + \\ & 175*n^{*2} + 21*n + 1) + 40*A*a^{*3}*c*d*m^{*5}*n*x*x*n*(e*x)**m/(m^{*7} + 21*m^{*6} \\ & *n + 7*m^{*6} + 175*m^{*5}*n^{*2} + 126*m^{*5}*n + 21*m^{*5} + 735*m^{*4}*n^{*3} + 875*m^{* \\ & *4}*n^{*2} + 315*m^{*4}*n + 35*m^{*4} + 1624*m^{*3}*n^{*4} + 2940*m^{*3}*n^{*3} + 1750*m^{* \\ & *3}*n^{*2} + 420*m^{*3}*n + 35*m^{*3} + 1764*m^{*2}*n^{*5} + 4872*m^{*2}*n^{*4} + 4410*m^{*2} \\ & *n^{*3} + 1750*m^{*2}*n^{*2} + 315*m^{*2}*n + 21*m^{*2} + 720*m*n^{*6} + 3528*m*n^{*5} + \\ & 4872*m*n^{*4} + 2940*m*n^{*3} + 875*m*n^{*2} + 126*m*n + 7*m + 720*n^{*6} + 1764*n^{* \\ & *5} + 1624*n^{*4} + 735*n^{*3} + 175*n^{*2} + 21*n + 1) + 12*A*a^{*3}*c*d*m^{*5}*x*x* \\ & n*(e*x)**m/(m^{*7} + 21*m^{*6}*n + 7*m^{*6} + 175*m^{*5}*n^{*2} + 126*m^{*5}*n + 21*m^{* \\ & *5} + 735*m^{*4}*n^{*3} + 875*m^{*4}*n^{*2} + 315*m^{*4}*n + 35*m^{*4} + 1624*m^{*3}*n^{*4} + \\ & 2940*m^{*3}*n^{*3} + 1750*m^{*3}*n^{*2} + 420*m^{*3}*n + 35*m^{*3} + 1764*m^{*2}*n^{*5} + \\ & 4872*m^{*2}*n^{*4} + 4410*m^{*2}*n^{*3} + 1750*m^{*2}*n^{*2} + 315*m^{*2}*n + 21*m^{*2} + 7 \\ & 20*m*n^{*6} + 3528*m*n^{*5} + 4872*m*n^{*4} + 2940*m*n^{*3} + 875*m*n^{*2} + 126*m*n \\ & + 7*m + 720*n^{*6} + 1764*n^{*5} + 1624*n^{*4} + 735*n^{*3} + 175*n^{*2} + 21*n + 1) \\ & + 310*A*a^{*3}*c*d*m^{*4}*n^{*2}*x*x*n*(e*x)**m/(m^{*7} + 21*m^{*6}*n + 7*m^{*6} + 175 \\ & *m^{*5}*n^{*2} + 126*m^{*5}*n + 21*m^{*5} + 735*m^{*4}*n^{*3} + 875*m^{*4}*n^{*2} + 315*m^{* \\ & *4}*n + 35*m^{*4} + 1624*m^{*3}*n^{*4} + 2940*m^{*3}*n^{*3} + 1750*m^{*3}*n^{*2} + 420*m^{*3} \\ & *n + 35*m^{*3} + 1764*m^{*2}*n^{*5} + 4872*m^{*2}*n^{*4} + 4410*m^{*2}*n^{*3} + 1750*m^{*2} \\ & *n^{*2} + 315*m^{*2}*n + 21*m^{*2} + 720*m*n^{*6} + 3528*m*n^{*5} + 4872*m*n^{*4} + 294 \\ & 0*m*n^{*3} + 875*m*n^{*2} + 126*m*n + 7*m + 720*n^{*6} + 1764*n^{*5} + 1624*n^{*4} + \\ & 735*n^{*3} + 175*n^{*2} + 21*n + 1) + 200*A*a^{*3}*c*d*m^{*4}*n*x*x*n*(e*x)**m/(m \\ & *7 + 21*m^{*6}*n + 7*m^{*6} + 175*m^{*5}*n^{*2} + 126*m^{*5}*n + 21*m^{*5} + 735*m^{*4}*n \\ & **3 + 875*m^{*4}*n^{*2} + 315*m^{*4}*n + 35*m^{*4} + 1624*m^{*3}*n^{*4} + 2940*m^{*3}*n^{* \\ & *3} + 1750*m^{*3}*n^{*2} + 420*m^{*3}*n + 35*m^{*3} + 1764*m^{*2}*n^{*5} + 4872*m^{*2}*n^{*4} \\ & + 4410*m^{*2}*n^{*3} + 1750*m^{*2}*n^{*2} + 315*m^{*2}*n + 21*m^{*2} + 720*m*n^{*6} + 35 \\ & 28*m*n^{*5} + 4872*m*n^{*4} + 2940*m*n^{*3} + 875*m*n^{*2} + 126*m*n + 7*m + 720*n^{* \\ & *6} + 1764*n^{*5} + 1624*n^{*4} + 735*n^{*3} + 175*n^{*2} + 21*n + 1) + 30*A*a^{*3}*c \\ & d*m^{*4}*x*x*n*(e*x)**m/(m^{*7} + 21*m^{*6}*n + 7*m^{*6} + 175*m^{*5}*n^{*2} + 126*m^{* \\ & *5}*n + 21*m^{*5} + 735*m^{*4}*n^{*3} + 875*m^{*4}*n^{*2} + 315*m^{*4}*n + 35*m^{*4} + 1624 \\ & *m^{*3}*n^{*4} + 2940*m^{*3}*n^{*3} + 1750*m^{*3}*n^{*2} + 420*m^{*3}*n + 35*m^{*3} + 1764* \end{aligned}$$

$$\begin{aligned}
& m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2}n^{**2} + 315m^{**2}n + \\
& 21m^{**2} + 720m^{**n}n^{**6} + 3528m^{**n}n^{**5} + 4872m^{**n}n^{**4} + 2940m^{**n}n^{**3} + 875m^{**n}n^{**2} \\
& + 126m^{**n} + 7m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} \\
& + 21n + 1) + 1160A^{**a}a^{**3}c^{**d}m^{**3}n^{**3}x^{**x}n^{**n}(e^{**x})^{**m}/(m^{**7} + 21m^{**6}n + \\
& 7m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} + 875m^{**4}n^{**2} \\
& + 315m^{**4}n + 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} \\
& + 420m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} \\
& + 1750m^{**2}n^{**2} + 315m^{**2}n + 21m^{**2} + 720m^{**n}n^{**6} + 3528m^{**n}n^{**5} + 4872 \\
& m^{**n}n^{**4} + 2940m^{**n}n^{**3} + 875m^{**n}n^{**2} + 126m^{**n} + 7m + 720n^{**6} + 1764n^{**5} + \\
& 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21n + 1) + 1240A^{**a}a^{**3}c^{**d}m^{**3}n^{**2}x^{**x} \\
& n^{**n}(e^{**x})^{**m}/(m^{**7} + 21m^{**6}n + 7m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n + 21m^{**5} \\
& + 735m^{**4}n^{**3} + 875m^{**4}n^{**2} + 315m^{**4}n + 35m^{**4} + 1624m^{**3}n^{**4} \\
& + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**5} \\
& + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2}n^{**2} + 315m^{**2}n + 21m^{**2} \\
& + 720m^{**n}n^{**6} + 3528m^{**n}n^{**5} + 4872m^{**n}n^{**4} + 2940m^{**n}n^{**3} + 875m^{**n}n^{**2} + 126m^{**n} \\
& + 7m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21n + \\
& 1) + 400A^{**a}a^{**3}c^{**d}m^{**3}n^{**x}x^{**n}(e^{**x})^{**m}/(m^{**7} + 21m^{**6}n + 7m^{**6} + 175 \\
& m^{**5}n^{**2} + 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} + 875m^{**4}n^{**2} + 315m^{**4}n \\
& + 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n \\
& + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2} \\
& n^{**2} + 315m^{**2}n + 21m^{**2} + 720m^{**n}n^{**6} + 3528m^{**n}n^{**5} + 4872m^{**n}n^{**4} + 294 \\
& 0m^{**n}n^{**3} + 875m^{**n}n^{**2} + 126m^{**n} + 7m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + \\
& 735n^{**3} + 175n^{**2} + 21n + 1) + 40A^{**a}a^{**3}c^{**d}m^{**3}x^{**x}n^{**n}(e^{**x})^{**m}/(m^{**7} \\
& + 21m^{**6}n + 7m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} \\
& + 875m^{**4}n^{**2} + 315m^{**4}n + 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**3}n^{**3} + \\
& 1750m^{**3}n^{**2} + 420m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + \\
& 4410m^{**2}n^{**3} + 1750m^{**2}n^{**2} + 315m^{**2}n + 21m^{**2} + 720m^{**n}n^{**6} + 3528m^{**n}n^{**5} \\
& + 4872m^{**n}n^{**4} + 2940m^{**n}n^{**3} + 875m^{**n}n^{**2} + 126m^{**n} + 7m + 720n^{**6} \\
& + 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21n + 1) + 2088A^{**a}a^{**3}c^{**d} \\
& m^{**2}n^{**4}x^{**x}n^{**n}(e^{**x})^{**m}/(m^{**7} + 21m^{**6}n + 7m^{**6} + 175m^{**5}n^{**2} + 126 \\
& m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} + 875m^{**4}n^{**2} + 315m^{**4}n + 35m^{**4} + \\
& 1624m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n + 35m^{**3} + 1 \\
& 764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2}n^{**2} + 315m^{**2} \\
& n + 21m^{**2} + 720m^{**n}n^{**6} + 3528m^{**n}n^{**5} + 4872m^{**n}n^{**4} + 2940m^{**n}n^{**3} + 875m^{**n} \\
& n^{**2} + 126m^{**n} + 7m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} \\
& + 21n + 1) + 3480A^{**a}a^{**3}c^{**d}m^{**2}n^{**3}x^{**x}n^{**n}(e^{**x})^{**m}/(m^{**7} + 21m^{**6} \\
& n + 7m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} + 875m^{**4}n^{**2} \\
& + 315m^{**4}n + 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} \\
& + 420m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 4410m^{**2} \\
& n^{**3} + 1750m^{**2}n^{**2} + 315m^{**2}n + 21m^{**2} + 720m^{**n}n^{**6} + 3528m^{**n}n^{**5} + \\
& 4872m^{**n}n^{**4} + 2940m^{**n}n^{**3} + 875m^{**n}n^{**2} + 126m^{**n} + 7m + 720n^{**6} + 1764n^{**5} \\
& + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21n + 1) + 1860A^{**a}a^{**3}c^{**d}m^{**2}n^{**2} \\
& x^{**x}n^{**n}(e^{**x})^{**m}/(m^{**7} + 21m^{**6}n + 7m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n + \\
& 21m^{**5} + 735m^{**4}n^{**3} + 875m^{**4}n^{**2} + 315m^{**4}n + 35m^{**4} + 1624m^{**3} \\
& n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n + 35m^{**3} + 1764m^{**2}
\end{aligned}$$

$$\begin{aligned}
& n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} \\
& + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n \\
& + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 400*A*a^{**3}*c*d*m^{**2}*n*x*x*x*n*(e*x)**m/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + \\
& 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315 \\
& *m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420* \\
& m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750* \\
& m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + \\
& 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} \\
& + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 30*A*a^{**3}*c*d*m^{**2}*x*x*x*n*(e*x)**m/(m \\
& **7 + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}* \\
& n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n \\
& **3 + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} \\
& + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3 \\
& 528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n \\
& **6 + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 1440*A*a^{**3} \\
& *c*d*m*n^{**5}*x*x*x*n*(e*x)**m/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 12 \\
& 6*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + \\
& 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + \\
& 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2} \\
& *n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875* \\
& m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175* \\
& n^{**2} + 21*n + 1) + 4176*A*a^{**3}*c*d*m*n^{**4}*x*x*x*n*(e*x)**m/(m^{**7} + 21*m^{**6}*n \\
& + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4} \\
& *n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}* \\
& n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n \\
& **3 + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 48 \\
& 72*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} \\
& + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 3480*A*a^{**3}*c*d*m*n^{**3}*x*x \\
& **n*(e*x)**m/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m \\
& **5 + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} \\
& + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} \\
& + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + \\
& 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m* \\
& n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1 \\
&) + 1240*A*a^{**3}*c*d*m*n^{**2}*x*x*x*n*(e*x)**m/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175 \\
& *m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4} \\
& *n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3} \\
& *n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2} \\
& *n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 294 \\
& 0*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + \\
& 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 200*A*a^{**3}*c*d*m*n*x*x*x*n*(e*x)**m/(m^{**7} \\
& + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} \\
& + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + \\
& 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} +
\end{aligned}$$

$$\begin{aligned}
& 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528* \\
& m^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m^{**2} + 126*m*n + 7*m + 720*n^{**6} \\
& + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 12*A*a^{**3}*c*d*m \\
& *x*x^{**n}*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + \\
& 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}* \\
& n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n \\
& **5 + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m* \\
& *2 + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 12 \\
& 6*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n \\
& + 1) + 1440*A*a^{**3}*c*d*n^{**5}*x*x^{**n}*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 1 \\
& 75*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m \\
& **4*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m* \\
& *3*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m* \\
& *2*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2 \\
& 940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} \\
& + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 2088*A*a^{**3}*c*d*n^{**4}*x*x^{**n}*(e*x)^{**m}/(m \\
& **7 + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}* \\
& n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n* \\
& *3 + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{** \\
& 4 + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3 \\
& 528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n \\
& **6 + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 1160*A*a^{**3} \\
& *c*d*n^{**3}*x*x^{**n}*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126* \\
& m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1 \\
& 624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 17 \\
& 64*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}* \\
& n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m* \\
& n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n* \\
& *2 + 21*n + 1) + 310*A*a^{**3}*c*d*n^{**2}*x*x^{**n}*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7* \\
& m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} \\
& + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} \\
& + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + \\
& 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m* \\
& n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 16 \\
& 24*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 40*A*a^{**3}*c*d*n*x*x^{**n}*(e*x)^{**m} \\
& /(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m* \\
& *4*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3} \\
& *n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}* \\
& n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} \\
& + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 72 \\
& 0*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 2*A*a^{**3} \\
& *c*d*x*x^{**n}*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}* \\
& n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m \\
& **3*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m* \\
& *2*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 2
\end{aligned}$$

$$\begin{aligned}
& 1*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} \\
& + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + \\
& 21*n + 1) + A*a^{**3}*d^{**2}*m^{**6}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} \\
& + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 3 \\
& 15*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 42 \\
& 0*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 175 \\
& 0*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} \\
& + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n \\
& **4 + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 19*A*a^{**3}*d^{**2}*m^{**5}*n*x*x^{**}(2*n)*(e \\
& *x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + \\
& 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 294 \\
& 0*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872 \\
& *m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m \\
& *n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7* \\
& m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 6* \\
& A*a^{**3}*d^{**2}*m^{**5}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}* \\
& n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + \\
& 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 3 \\
& 5*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} \\
& + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{** \\
& *3 + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{** \\
& *3 + 175*n^{**2} + 21*n + 1) + 137*A*a^{**3}*d^{**2}*m^{**4}*n^{**2}*x*x^{**}(2*n)*(e*x)^{**m}/(\\
& m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4} \\
& *n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n \\
& **3 + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{** \\
& *4 + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + \\
& 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720* \\
& n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 95*A*a^{**3}* \\
& d^{**2}*m^{**4}*n*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} \\
& + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{** \\
& *4 + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{** \\
& 3 + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315 \\
& *m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + \\
& 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + \\
& 175*n^{**2} + 21*n + 1) + 15*A*a^{**3}*d^{**2}*m^{**4}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**7} + 21*m \\
& **6*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875 \\
& *m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750* \\
& m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m \\
& **2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} \\
& + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764 \\
& *n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 461*A*a^{**3}*d^{**2}*m^{**3}* \\
& n^{**3}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m \\
& **5*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 16 \\
& 24*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 176 \\
& 4*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n
\end{aligned}$$

$$\begin{aligned}
& *m^{**2}n^{**2} + 315*m^{**2}n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} \\
& + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} \\
& + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 15*A*a^{**3}d^{**2}m^{**2}x*x^{**}(2n)*(e^x) \\
& **/(m^{**7} + 21*m^{**6}n + 7*m^{**6} + 175*m^{**5}n^{**2} + 126*m^{**5}n + 21*m^{**5} + 735 \\
& *m^{**4}n^{**3} + 875*m^{**4}n^{**2} + 315*m^{**4}n + 35*m^{**4} + 1624*m^{**3}n^{**4} + 2940*m \\
& **3n^{**3} + 1750*m^{**3}n^{**2} + 420*m^{**3}n + 35*m^{**3} + 1764*m^{**2}n^{**5} + 4872*m \\
& **2n^{**4} + 4410*m^{**2}n^{**3} + 1750*m^{**2}n^{**2} + 315*m^{**2}n + 21*m^{**2} + 720*m*n \\
& **6 + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + \\
& 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 360*A \\
& *a^{**3}d^{**2}m*n^{**5}x*x^{**}(2n)*(e^x)**/(m^{**7} + 21*m^{**6}n + 7*m^{**6} + 175*m^{**5} \\
& n^{**2} + 126*m^{**5}n + 21*m^{**5} + 735*m^{**4}n^{**3} + 875*m^{**4}n^{**2} + 315*m^{**4}n + \\
& 35*m^{**4} + 1624*m^{**3}n^{**4} + 2940*m^{**3}n^{**3} + 1750*m^{**3}n^{**2} + 420*m^{**3}n + \\
& 35*m^{**3} + 1764*m^{**2}n^{**5} + 4872*m^{**2}n^{**4} + 4410*m^{**2}n^{**3} + 1750*m^{**2}n^{**2} \\
& + 315*m^{**2}n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n \\
& **3 + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n \\
& **3 + 175*n^{**2} + 21*n + 1) + 1404*A*a^{**3}d^{**2}m*n^{**4}x*x^{**}(2n)*(e^x)**/(m \\
& **7 + 21*m^{**6}n + 7*m^{**6} + 175*m^{**5}n^{**2} + 126*m^{**5}n + 21*m^{**5} + 735*m^{**4}n \\
& n^{**3} + 875*m^{**4}n^{**2} + 315*m^{**4}n + 35*m^{**4} + 1624*m^{**3}n^{**4} + 2940*m^{**3}n^{**3} \\
& + 1750*m^{**3}n^{**2} + 420*m^{**3}n + 35*m^{**3} + 1764*m^{**2}n^{**5} + 4872*m^{**2}n^{**4} \\
& + 4410*m^{**2}n^{**3} + 1750*m^{**2}n^{**2} + 315*m^{**2}n + 21*m^{**2} + 720*m*n^{**6} + 3 \\
& 528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n \\
& **6 + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 1383*A*a^{**3} \\
& *d^{**2}m*n^{**3}x*x^{**}(2n)*(e^x)**/(m^{**7} + 21*m^{**6}n + 7*m^{**6} + 175*m^{**5}n^{**2} \\
& + 126*m^{**5}n + 21*m^{**5} + 735*m^{**4}n^{**3} + 875*m^{**4}n^{**2} + 315*m^{**4}n + 35*m \\
& **4 + 1624*m^{**3}n^{**4} + 2940*m^{**3}n^{**3} + 1750*m^{**3}n^{**2} + 420*m^{**3}n + 35*m \\
& **3 + 1764*m^{**2}n^{**5} + 4872*m^{**2}n^{**4} + 4410*m^{**2}n^{**3} + 1750*m^{**2}n^{**2} + 31 \\
& 5*m^{**2}n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + \\
& 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + \\
& 175*n^{**2} + 21*n + 1) + 548*A*a^{**3}d^{**2}m*n^{**2}x*x^{**}(2n)*(e^x)**/(m^{**7} + \\
& 21*m^{**6}n + 7*m^{**6} + 175*m^{**5}n^{**2} + 126*m^{**5}n + 21*m^{**5} + 735*m^{**4}n^{**3} + \\
& 875*m^{**4}n^{**2} + 315*m^{**4}n + 35*m^{**4} + 1624*m^{**3}n^{**4} + 2940*m^{**3}n^{**3} + 1 \\
& 750*m^{**3}n^{**2} + 420*m^{**3}n + 35*m^{**3} + 1764*m^{**2}n^{**5} + 4872*m^{**2}n^{**4} + 44 \\
& 10*m^{**2}n^{**3} + 1750*m^{**2}n^{**2} + 315*m^{**2}n + 21*m^{**2} + 720*m*n^{**6} + 3528*m \\
& n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + \\
& 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 95*A*a^{**3}d^{**2}m \\
& n*x*x^{**}(2n)*(e^x)**/(m^{**7} + 21*m^{**6}n + 7*m^{**6} + 175*m^{**5}n^{**2} + 126*m^{**5} \\
& n + 21*m^{**5} + 735*m^{**4}n^{**3} + 875*m^{**4}n^{**2} + 315*m^{**4}n + 35*m^{**4} + 1624* \\
& m^{**3}n^{**4} + 2940*m^{**3}n^{**3} + 1750*m^{**3}n^{**2} + 420*m^{**3}n + 35*m^{**3} + 1764*m \\
& **2n^{**5} + 4872*m^{**2}n^{**4} + 4410*m^{**2}n^{**3} + 1750*m^{**2}n^{**2} + 315*m^{**2}n + \\
& 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} \\
& + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + \\
& 21*n + 1) + 6*A*a^{**3}d^{**2}m*x*x^{**}(2n)*(e^x)**/(m^{**7} + 21*m^{**6}n + 7*m^{**6} \\
& + 175*m^{**5}n^{**2} + 126*m^{**5}n + 21*m^{**5} + 735*m^{**4}n^{**3} + 875*m^{**4}n^{**2} + 3 \\
& 15*m^{**4}n + 35*m^{**4} + 1624*m^{**3}n^{**4} + 2940*m^{**3}n^{**3} + 1750*m^{**3}n^{**2} + 42 \\
& 0*m^{**3}n + 35*m^{**3} + 1764*m^{**2}n^{**5} + 4872*m^{**2}n^{**4} + 4410*m^{**2}n^{**3} + 175
\end{aligned}$$

$$\begin{aligned}
& 0*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} \\
& + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} \\
& + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 360*A*a^{**3}*d^{**2}*n^{**5}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 7 \\
& 35*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940 \\
& *m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872* \\
& m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m* \\
& n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m \\
& + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 702 \\
& *A*a^{**3}*d^{**2}*n^{**4}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5} \\
& *n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + \\
& 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + \\
& 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} \\
& + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} \\
& + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} \\
& + 175*n^{**2} + 21*n + 1) + 461*A*a^{**3}*d^{**2}*n^{**3}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**7} \\
& + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} \\
& + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} \\
& + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + \\
& 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528 \\
& *m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} \\
& + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 137*A*a^{**3}*d^{**2} \\
& *n^{**2}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126 \\
& *m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + \\
& 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1 \\
& 764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2} \\
& *n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m \\
& *n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n \\
& **2 + 21*n + 1) + 19*A*a^{**3}*d^{**2}*n*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + \\
& 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n \\
& *2 + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} \\
& + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} \\
& + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872* \\
& m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + \\
& 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + A*a^{**3}*d^{**2}*x*x^{**}(2*n)*(e*x)* \\
& **m/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735* \\
& m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m* \\
& *3*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2} \\
& *n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} \\
& + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + \\
& 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 3*A*a* \\
& *2*b*c^{**2}*m^{**6}*x*x^{**n}*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + \\
& 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} \\
& + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} \\
& + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*
\end{aligned}$$

$$\begin{aligned}
& 15m^{2n} + 21m^2 + 720m^n n^6 + 3528m^n n^5 + 4872m^n n^4 + 2940m^n n^3 \\
& + 875m^n n^2 + 126m^n + 7m + 720n^{n6} + 1764n^{n5} + 1624n^{n4} + 735n^{n3} \\
& + 175n^{n2} + 21n + 1) + 600Aa^2b^c^2m^{n3}n^x n^x n^x (e^x)^m / (m^7 + 2 \\
& 1m^{n6} + 7m^{n6} + 175m^{n5}n^{n2} + 126m^{n5}n + 21m^{n5} + 735m^{n4}n^{n3} + \\
& 875m^{n4}n^{n2} + 315m^{n4}n + 35m^{n4} + 1624m^{n3}n^{n4} + 2940m^{n3}n^{n3} + 17 \\
& 50m^{n3}n^{n2} + 420m^{n3}n + 35m^{n3} + 1764m^{n2}n^{n5} + 4872m^{n2}n^{n4} + 441 \\
& 0m^{n2}n^{n3} + 1750m^{n2}n^{n2} + 315m^{n2}n + 21m^{n2} + 720m^n n^6 + 3528m^n \\
& n^5 + 4872m^n n^4 + 2940m^n n^3 + 875m^n n^2 + 126m^n + 7m + 720n^{n6} + 1 \\
& 764n^{n5} + 1624n^{n4} + 735n^{n3} + 175n^{n2} + 21n + 1) + 60Aa^2b^c^2m \\
& n^3 x^x n^x n^x (e^x)^m / (m^7 + 21m^{n6} + 7m^{n6} + 175m^{n5}n^{n2} + 126m^{n5}n \\
& + 21m^{n5} + 735m^{n4}n^{n3} + 875m^{n4}n^{n2} + 315m^{n4}n + 35m^{n4} + 1624m^ \\
& n^3 n^{n4} + 2940m^{n3}n^{n3} + 1750m^{n3}n^{n2} + 420m^{n3}n + 35m^{n3} + 1764m^{n2} \\
& n^{n5} + 4872m^{n2}n^{n4} + 4410m^{n2}n^{n3} + 1750m^{n2}n^{n2} + 315m^{n2}n + 21 \\
& m^{n2} + 720m^n n^6 + 3528m^n n^5 + 4872m^n n^4 + 2940m^n n^3 + 875m^n n^2 + \\
& 126m^n + 7m + 720n^{n6} + 1764n^{n5} + 1624n^{n4} + 735n^{n3} + 175n^{n2} + 2 \\
& 1n + 1) + 3132Aa^2b^c^2m^{n2}n^{n4} x^x n^x n^x (e^x)^m / (m^7 + 21m^{n6} + 7 \\
& m^{n6} + 175m^{n5}n^{n2} + 126m^{n5}n + 21m^{n5} + 735m^{n4}n^{n3} + 875m^{n4}n \\
& n^2 + 315m^{n4}n + 35m^{n4} + 1624m^{n3}n^{n4} + 2940m^{n3}n^{n3} + 1750m^{n3}n^ \\
& n^2 + 420m^{n3}n + 35m^{n3} + 1764m^{n2}n^{n5} + 4872m^{n2}n^{n4} + 4410m^{n2}n^ \\
& n^3 + 1750m^{n2}n^{n2} + 315m^{n2}n + 21m^{n2} + 720m^n n^6 + 3528m^n n^5 + 4872 \\
& m^n n^4 + 2940m^n n^3 + 875m^n n^2 + 126m^n + 7m + 720n^{n6} + 1764n^{n5} + \\
& 1624n^{n4} + 735n^{n3} + 175n^{n2} + 21n + 1) + 5220Aa^2b^c^2m^{n2}n^{n3} \\
& x^x n^x n^x (e^x)^m / (m^7 + 21m^{n6} + 7m^{n6} + 175m^{n5}n^{n2} + 126m^{n5}n + \\
& 21m^{n5} + 735m^{n4}n^{n3} + 875m^{n4}n^{n2} + 315m^{n4}n + 35m^{n4} + 1624m^{n3} \\
& n^{n4} + 2940m^{n3}n^{n3} + 1750m^{n3}n^{n2} + 420m^{n3}n + 35m^{n3} + 1764m^{n2}n \\
& n^5 + 4872m^{n2}n^{n4} + 4410m^{n2}n^{n3} + 1750m^{n2}n^{n2} + 315m^{n2}n + 21m^ \\
& n^2 + 720m^n n^6 + 3528m^n n^5 + 4872m^n n^4 + 2940m^n n^3 + 875m^n n^2 + 12 \\
& 6m^n + 7m + 720n^{n6} + 1764n^{n5} + 1624n^{n4} + 735n^{n3} + 175n^{n2} + 21n \\
& + 1) + 2790Aa^2b^c^2m^{n2}n^{n2} x^x n^x n^x (e^x)^m / (m^7 + 21m^{n6} + 7 \\
& m^{n6} + 175m^{n5}n^{n2} + 126m^{n5}n + 21m^{n5} + 735m^{n4}n^{n3} + 875m^{n4}n^{n2} \\
& + 315m^{n4}n + 35m^{n4} + 1624m^{n3}n^{n4} + 2940m^{n3}n^{n3} + 1750m^{n3}n^{n2} \\
& + 420m^{n3}n + 35m^{n3} + 1764m^{n2}n^{n5} + 4872m^{n2}n^{n4} + 4410m^{n2}n^{n3} + \\
& 1750m^{n2}n^{n2} + 315m^{n2}n + 21m^{n2} + 720m^n n^6 + 3528m^n n^5 + 4872m^ \\
& n^{n4} + 2940m^n n^3 + 875m^n n^2 + 126m^n + 7m + 720n^{n6} + 1764n^{n5} + 16 \\
& 24n^{n4} + 735n^{n3} + 175n^{n2} + 21n + 1) + 600Aa^2b^c^2m^{n2}n^x n^x n^x \\
& (e^x)^m / (m^7 + 21m^{n6} + 7m^{n6} + 175m^{n5}n^{n2} + 126m^{n5}n + 21m^{n5} \\
& + 735m^{n4}n^{n3} + 875m^{n4}n^{n2} + 315m^{n4}n + 35m^{n4} + 1624m^{n3}n^{n4} + \\
& 2940m^{n3}n^{n3} + 1750m^{n3}n^{n2} + 420m^{n3}n + 35m^{n3} + 1764m^{n2}n^{n5} + 4 \\
& 872m^{n2}n^{n4} + 4410m^{n2}n^{n3} + 1750m^{n2}n^{n2} + 315m^{n2}n + 21m^{n2} + 72 \\
& 0m^n n^6 + 3528m^n n^5 + 4872m^n n^4 + 2940m^n n^3 + 875m^n n^2 + 126m^n + \\
& 7m + 720n^{n6} + 1764n^{n5} + 1624n^{n4} + 735n^{n3} + 175n^{n2} + 21n + 1) + \\
& 45Aa^2b^c^2m^{n2} x^x n^x n^x (e^x)^m / (m^7 + 21m^{n6} + 7m^{n6} + 175m^{n5} \\
& n^{n2} + 126m^{n5}n + 21m^{n5} + 735m^{n4}n^{n3} + 875m^{n4}n^{n2} + 315m^{n4}n \\
& + 35m^{n4} + 1624m^{n3}n^{n4} + 2940m^{n3}n^{n3} + 1750m^{n3}n^{n2} + 420m^{n3}n + \\
& 35m^{n3} + 1764m^{n2}n^{n5} + 4872m^{n2}n^{n4} + 4410m^{n2}n^{n3} + 1750m^{n2}n^
\end{aligned}$$

$$\begin{aligned}
& 2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m* \\
& n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735* \\
& n**3 + 175*n**2 + 21*n + 1) + 2160*A*a**2*b*c**2*m*n**5*x*x**n*(e*x)**m/(m* \\
& *7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n \\
& **3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n** \\
& 3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 \\
& + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 35 \\
& 28*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n* \\
& *6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 6264*A*a**2* \\
& b*c**2*m*n**4*x*x**n*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + \\
& 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 \\
& + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 \\
& + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m \\
& **2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 87 \\
& 5*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 17 \\
& 5*n**2 + 21*n + 1) + 5220*A*a**2*b*c**2*m*n**3*x*x**n*(e*x)**m/(m**7 + 21*m \\
& **6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875 \\
& *m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750* \\
& m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m \\
& **2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 \\
& + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764 \\
& *n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 1860*A*a**2*b*c**2*m* \\
& n**2*x*x**n*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5* \\
& n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m \\
& **3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m* \\
& *2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 2 \\
& 1*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 \\
& + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + \\
& 21*n + 1) + 300*A*a**2*b*c**2*m*n*x*x**n*(e*x)**m/(m**7 + 21*m**6*n + 7*m** \\
& 6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + \\
& 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 4 \\
& 20*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 17 \\
& 50*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n** \\
& 4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624* \\
& n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 18*A*a**2*b*c**2*m*x*x**n*(e*x)**m \\
& / (m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m* \\
& *4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3 \\
& *n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2* \\
& n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 \\
& + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 72 \\
& 0*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 2160*A*a \\
& **2*b*c**2*n**5*x*x**n*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 \\
& + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m* \\
& *4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m** \\
& 3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315
\end{aligned}$$

$$\begin{aligned}
& *m^{**2}n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + \\
& 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + \\
& 175*n^{**2} + 21*n + 1) + 3132*A*a^{**2}b*c^{**2}n^{**4}x*x^{**n}*(e*x)^{**m}/(m^{**7} + 21*m \\
& **6n + 7*m^{**6} + 175*m^{**5}n^{**2} + 126*m^{**5}n + 21*m^{**5} + 735*m^{**4}n^{**3} + 875 \\
& *m^{**4}n^{**2} + 315*m^{**4}n + 35*m^{**4} + 1624*m^{**3}n^{**4} + 2940*m^{**3}n^{**3} + 1750* \\
& m^{**3}n^{**2} + 420*m^{**3}n + 35*m^{**3} + 1764*m^{**2}n^{**5} + 4872*m^{**2}n^{**4} + 4410*m \\
& **2n^{**3} + 1750*m^{**2}n^{**2} + 315*m^{**2}n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} \\
& + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764 \\
& *n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 1740*A*a^{**2}b*c^{**2}n* \\
& *3*x*x^{**n}*(e*x)^{**m}/(m^{**7} + 21*m^{**6}n + 7*m^{**6} + 175*m^{**5}n^{**2} + 126*m^{**5}n \\
& + 21*m^{**5} + 735*m^{**4}n^{**3} + 875*m^{**4}n^{**2} + 315*m^{**4}n + 35*m^{**4} + 1624*m^{** \\
& 3n^{**4} + 2940*m^{**3}n^{**3} + 1750*m^{**3}n^{**2} + 420*m^{**3}n + 35*m^{**3} + 1764*m^{**2} \\
& *n^{**5} + 4872*m^{**2}n^{**4} + 4410*m^{**2}n^{**3} + 1750*m^{**2}n^{**2} + 315*m^{**2}n + 21* \\
& m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + \\
& 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21 \\
& *n + 1) + 465*A*a^{**2}b*c^{**2}n^{**2}x*x^{**n}*(e*x)^{**m}/(m^{**7} + 21*m^{**6}n + 7*m^{**6} \\
& + 175*m^{**5}n^{**2} + 126*m^{**5}n + 21*m^{**5} + 735*m^{**4}n^{**3} + 875*m^{**4}n^{**2} + 3 \\
& 15*m^{**4}n + 35*m^{**4} + 1624*m^{**3}n^{**4} + 2940*m^{**3}n^{**3} + 1750*m^{**3}n^{**2} + 42 \\
& 0*m^{**3}n + 35*m^{**3} + 1764*m^{**2}n^{**5} + 4872*m^{**2}n^{**4} + 4410*m^{**2}n^{**3} + 175 \\
& 0*m^{**2}n^{**2} + 315*m^{**2}n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} \\
& + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n \\
& **4 + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 60*A*a^{**2}b*c^{**2}n*x*x^{**n}*(e*x)^{**m}/ \\
& (m^{**7} + 21*m^{**6}n + 7*m^{**6} + 175*m^{**5}n^{**2} + 126*m^{**5}n + 21*m^{**5} + 735*m^{** \\
& 4n^{**3} + 875*m^{**4}n^{**2} + 315*m^{**4}n + 35*m^{**4} + 1624*m^{**3}n^{**4} + 2940*m^{**3}n \\
& **3 + 1750*m^{**3}n^{**2} + 420*m^{**3}n + 35*m^{**3} + 1764*m^{**2}n^{**5} + 4872*m^{**2}n \\
& **4 + 4410*m^{**2}n^{**3} + 1750*m^{**2}n^{**2} + 315*m^{**2}n + 21*m^{**2} + 720*m*n^{**6} + \\
& 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720 \\
& *n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 3*A*a^{**2} \\
& b*c^{**2}x*x^{**n}*(e*x)^{**m}/(m^{**7} + 21*m^{**6}n + 7*m^{**6} + 175*m^{**5}n^{**2} + 126*m^{** \\
& 5n + 21*m^{**5} + 735*m^{**4}n^{**3} + 875*m^{**4}n^{**2} + 315*m^{**4}n + 35*m^{**4} + 1624 \\
& *m^{**3}n^{**4} + 2940*m^{**3}n^{**3} + 1750*m^{**3}n^{**2} + 420*m^{**3}n + 35*m^{**3} + 1764* \\
& m^{**2}n^{**5} + 4872*m^{**2}n^{**4} + 4410*m^{**2}n^{**3} + 1750*m^{**2}n^{**2} + 315*m^{**2}n + \\
& 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{** \\
& 2 + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} \\
& + 21*n + 1) + 6*A*a^{**2}b*c*d*m^{**6}x*x^{**2n}*(e*x)^{**m}/(m^{**7} + 21*m^{**6}n + 7 \\
& *m^{**6} + 175*m^{**5}n^{**2} + 126*m^{**5}n + 21*m^{**5} + 735*m^{**4}n^{**3} + 875*m^{**4}n^{** \\
& 2 + 315*m^{**4}n + 35*m^{**4} + 1624*m^{**3}n^{**4} + 2940*m^{**3}n^{**3} + 1750*m^{**3}n^{**2} \\
& + 420*m^{**3}n + 35*m^{**3} + 1764*m^{**2}n^{**5} + 4872*m^{**2}n^{**4} + 4410*m^{**2}n^{**3} \\
& + 1750*m^{**2}n^{**2} + 315*m^{**2}n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m \\
& *n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1 \\
& 624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 114*A*a^{**2}b*c*d*m^{**5}n*x*x^{**2} \\
& (2n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}n + 7*m^{**6} + 175*m^{**5}n^{**2} + 126*m^{**5}n + 21* \\
& m^{**5} + 735*m^{**4}n^{**3} + 875*m^{**4}n^{**2} + 315*m^{**4}n + 35*m^{**4} + 1624*m^{**3}n^{** \\
& 4 + 2940*m^{**3}n^{**3} + 1750*m^{**3}n^{**2} + 420*m^{**3}n + 35*m^{**3} + 1764*m^{**2}n^{**5} \\
& + 4872*m^{**2}n^{**4} + 4410*m^{**2}n^{**3} + 1750*m^{**2}n^{**2} + 315*m^{**2}n + 21*m^{**2}
\end{aligned}$$

$$\begin{aligned}
& + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m \\
& *n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + \\
& 1) + 36*A*a**2*b*c*d*m**5*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + \\
& 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315* \\
& m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m \\
& **3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m \\
& **2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + \\
& 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 \\
& + 735*n**3 + 175*n**2 + 21*n + 1) + 822*A*a**2*b*c*d*m**4*n**2*x*x**(2*n)* \\
& (e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 \\
& + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2 \\
& 940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 48 \\
& 72*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720 \\
& *m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + \\
& 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + \\
& 570*A*a**2*b*c*d*m**4*n*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 17 \\
& 5*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m* \\
& **4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m** \\
& 3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m** \\
& 2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 29 \\
& 40*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + \\
& 735*n**3 + 175*n**2 + 21*n + 1) + 90*A*a**2*b*c*d*m**4*x*x**(2*n)*(e*x)**m \\
& /(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m* \\
& **4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3 \\
& *n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2* \\
& n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 \\
& + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 72 \\
& 0*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 2766*A*a \\
& **2*b*c*d*m**3*n**3*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m* \\
& **5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n \\
& + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n \\
& + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n* \\
& **2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m \\
& *n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735 \\
& *n**3 + 175*n**2 + 21*n + 1) + 3288*A*a**2*b*c*d*m**3*n**2*x*x**(2*n)*(e*x) \\
& **m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735 \\
& *m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m \\
& **3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m* \\
& **2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n* \\
& **6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + \\
& 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 1140* \\
& A*a**2*b*c*d*m**3*n*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m* \\
& **5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n \\
& + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n \\
& + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n*
\end{aligned}$$

$$\begin{aligned}
& *2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m \\
& *n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735 \\
& *n**3 + 175*n**2 + 21*n + 1) + 120*A*a**2*b*c*d*m**3*x*x**(2*n)*(e*x)**m/(m \\
& **7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4* \\
& n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n* \\
& *3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n** \\
& 4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3 \\
& 528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n \\
& **6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 4212*A*a**2 \\
& *b*c*d*m**2*n**4*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5* \\
& n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + \\
& 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 3 \\
& 5*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 \\
& + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n* \\
& *3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n* \\
& *3 + 175*n**2 + 21*n + 1) + 8298*A*a**2*b*c*d*m**2*n**3*x*x**(2*n)*(e*x)**m \\
& /(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m* \\
& *4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3 \\
& *n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2* \\
& n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 \\
& + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 72 \\
& 0*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 4932*A*a \\
& **2*b*c*d*m**2*n**2*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m* \\
& *5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n \\
& + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n \\
& + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n* \\
& *2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m \\
& *n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735 \\
& *n**3 + 175*n**2 + 21*n + 1) + 1140*A*a**2*b*c*d*m**2*n*x*x**(2*n)*(e*x)**m \\
& /(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m* \\
& *4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3 \\
& *n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2* \\
& n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 \\
& + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 72 \\
& 0*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 90*A*a** \\
& 2*b*c*d*m**2*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 \\
& + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m \\
& **4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m* \\
& *3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 31 \\
& 5*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + \\
& 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + \\
& 175*n**2 + 21*n + 1) + 2160*A*a**2*b*c*d*m*n**5*x*x**(2*n)*(e*x)**m/(m**7 \\
& + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 \\
& + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + \\
& 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 +
\end{aligned}$$

$$\begin{aligned}
& 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528* \\
& m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} \\
& + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 8424*A*a^{**2}*b*c \\
& *d*m*n^{**4}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + \\
& 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} \\
& + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} \\
& + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m \\
& **2*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 87 \\
& 5*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 17 \\
& 5*n^{**2} + 21*n + 1) + 8298*A*a^{**2}*b*c*d*m*n^{**3}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**7} + 2 \\
& 1*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + \\
& 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 17 \\
& 50*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 441 \\
& 0*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n \\
& **5 + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1 \\
& 764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 3288*A*a^{**2}*b*c*d* \\
& m*n^{**2}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126 \\
& *m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + \\
& 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1 \\
& 764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2} \\
& *n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m \\
& *n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n \\
& **2 + 21*n + 1) + 570*A*a^{**2}*b*c*d*m*n*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}* \\
& n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{** \\
& 4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3} \\
& *n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}* \\
& n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4 \\
& 872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{** \\
& 5 + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 36*A*a^{**2}*b*c*d*m*x*x^{**}(2 \\
& *n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m \\
& **5 + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} \\
& + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} \\
& + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + \\
& 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m* \\
& n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1 \\
&) + 2160*A*a^{**2}*b*c*d*n^{**5}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + \\
& 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315 \\
& *m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420* \\
& m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750* \\
& m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + \\
& 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{** \\
& 4 + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 4212*A*a^{**2}*b*c*d*n^{**4}*x*x^{**}(2*n)*(e* \\
& x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 7 \\
& 35*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940 \\
& *m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*
\end{aligned}$$

$$\begin{aligned}
& m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2}n^{**2} + 315m^{**2}n + 21m^{**2} + 720m^{**} \\
& n^{**6} + 3528m^{**}n^{**5} + 4872m^{**}n^{**4} + 2940m^{**}n^{**3} + 875m^{**}n^{**2} + 126m^{**}n + 7m^{**} \\
& + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21n + 1) + 276 \\
& 6A^{**}a^{**2}b^{**}c^{**}d^{**}n^{**3}x^{**}x^{**}(2n)(e^{**}x)^{**}m/(m^{**7} + 21m^{**6}n + 7m^{**6} + 175m^{**} \\
& *5n^{**2} + 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} + 875m^{**4}n^{**2} + 315m^{**4}n \\
& + 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n \\
& + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2}n^{**} \\
& *2 + 315m^{**2}n + 21m^{**2} + 720m^{**}n^{**6} + 3528m^{**}n^{**5} + 4872m^{**}n^{**4} + 2940m^{**} \\
& n^{**3} + 875m^{**}n^{**2} + 126m^{**}n + 7m^{**} + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 735 \\
& n^{**3} + 175n^{**2} + 21n + 1) + 822A^{**}a^{**2}b^{**}c^{**}d^{**}n^{**2}x^{**}x^{**}(2n)(e^{**}x)^{**}m/(m \\
& **7 + 21m^{**6}n + 7m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**} \\
& n^{**3} + 875m^{**4}n^{**2} + 315m^{**4}n + 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**3}n^{**} \\
& *3 + 1750m^{**3}n^{**2} + 420m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**} \\
& 4 + 4410m^{**2}n^{**3} + 1750m^{**2}n^{**2} + 315m^{**2}n + 21m^{**2} + 720m^{**}n^{**6} + 3 \\
& 528m^{**}n^{**5} + 4872m^{**}n^{**4} + 2940m^{**}n^{**3} + 875m^{**}n^{**2} + 126m^{**}n + 7m^{**} + 720n^{**} \\
& **6 + 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21n + 1) + 114A^{**}a^{**2}b^{**} \\
& c^{**}d^{**}n^{**}x^{**}x^{**}(2n)(e^{**}x)^{**}m/(m^{**7} + 21m^{**6}n + 7m^{**6} + 175m^{**5}n^{**2} + 12 \\
& 6m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} + 875m^{**4}n^{**2} + 315m^{**4}n + 35m^{**4} + \\
& 1624m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n + 35m^{**3} + \\
& 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2}n^{**2} + 315m^{**} \\
& 2n + 21m^{**2} + 720m^{**}n^{**6} + 3528m^{**}n^{**5} + 4872m^{**}n^{**4} + 2940m^{**}n^{**3} + 875m^{**} \\
& n^{**2} + 126m^{**}n + 7m^{**} + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**} \\
& n^{**2} + 21n + 1) + 6A^{**}a^{**2}b^{**}c^{**}d^{**}x^{**}x^{**}(2n)(e^{**}x)^{**}m/(m^{**7} + 21m^{**6}n + 7 \\
& m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} + 875m^{**4}n^{**} \\
& 2 + 315m^{**4}n + 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} \\
& + 420m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} \\
& + 1750m^{**2}n^{**2} + 315m^{**2}n + 21m^{**2} + 720m^{**}n^{**6} + 3528m^{**}n^{**5} + 4872m^{**} \\
& n^{**4} + 2940m^{**}n^{**3} + 875m^{**}n^{**2} + 126m^{**}n + 7m^{**} + 720n^{**6} + 1764n^{**5} + 1 \\
& 624n^{**4} + 735n^{**3} + 175n^{**2} + 21n + 1) + 3A^{**}a^{**2}b^{**}d^{**2}m^{**6}x^{**}x^{**}(3n \\
&)^{**}(e^{**}x)^{**}m/(m^{**7} + 21m^{**6}n + 7m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n + 21m^{**} \\
& 5 + 735m^{**4}n^{**3} + 875m^{**4}n^{**2} + 315m^{**4}n + 35m^{**4} + 1624m^{**3}n^{**4} + \\
& 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**5} + \\
& 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2}n^{**2} + 315m^{**2}n + 21m^{**2} + 7 \\
& 20m^{**}n^{**6} + 3528m^{**}n^{**5} + 4872m^{**}n^{**4} + 2940m^{**}n^{**3} + 875m^{**}n^{**2} + 126m^{**}n \\
& + 7m^{**} + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21n + 1) \\
& + 54A^{**}a^{**2}b^{**}d^{**2}m^{**5}n^{**}x^{**}x^{**}(3n)(e^{**}x)^{**}m/(m^{**7} + 21m^{**6}n + 7m^{**6} + \\
& 175m^{**5}n^{**2} + 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} + 875m^{**4}n^{**2} + 315m^{**} \\
& n^{**4}n + 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m^{**} \\
& **3n + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**} \\
& **2n^{**2} + 315m^{**2}n + 21m^{**2} + 720m^{**}n^{**6} + 3528m^{**}n^{**5} + 4872m^{**}n^{**4} + \\
& 2940m^{**}n^{**3} + 875m^{**}n^{**2} + 126m^{**}n + 7m^{**} + 720n^{**6} + 1764n^{**5} + 1624n^{**4} \\
& + 735n^{**3} + 175n^{**2} + 21n + 1) + 18A^{**}a^{**2}b^{**}d^{**2}m^{**5}x^{**}x^{**}(3n)(e^{**}x) \\
& **m/(m^{**7} + 21m^{**6}n + 7m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n + 21m^{**5} + 735 \\
& m^{**4}n^{**3} + 875m^{**4}n^{**2} + 315m^{**4}n + 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**} \\
& **3n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**}
\end{aligned}$$

$$\begin{aligned}
& *2*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + \\
& 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 363*A \\
& *a^{**2}*b*d^{**2}*m^{**4}*n^{**2}*x*x^{**3}*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175 \\
& *m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4} \\
& *n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3} \\
& *n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2} \\
& *n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 294 \\
& 0*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + \\
& 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 270*A*a^{**2}*b*d^{**2}*m^{**4}*n*x*x^{**3}*(e*x) \\
& ^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735 \\
& *m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m \\
& ^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m \\
& ^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 45*A \\
& a^{**2}*b*d^{**2}*m^{**4}*x*x^{**3}*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5} \\
& *n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + \\
& 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 3 \\
& 5*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} \\
& + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 1116*A*a^{**2}*b*d^{**2}*m^{**3}*n^{**3}*x*x^{**3}*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 1452*A \\
& a^{**2}*b*d^{**2}*m^{**3}*n^{**2}*x*x^{**3}*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175 \\
& *m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4} \\
& *n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3} \\
& *n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2} \\
& *n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940 \\
& *m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 7 \\
& 35*n^{**3} + 175*n^{**2} + 21*n + 1) + 540*A*a^{**2}*b*d^{**2}*m^{**3}*n*x*x^{**3}*(e*x) \\
& ^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735 \\
& *m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m \\
& ^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m \\
& ^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 60*A \\
& a^{**2}*b*d^{**2}*m^{**3}*x*x^{**3}*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5} \\
& *n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 3 \\
& 5*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35
\end{aligned}$$

$$\begin{aligned}
& *3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n** \\
& 4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3 \\
& 528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n \\
& **6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 3348*A*a**2 \\
& *b*d**2*m*n**3*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n* \\
& *2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35 \\
& *m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35* \\
& m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + \\
& 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 \\
& + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 \\
& + 175*n**2 + 21*n + 1) + 1452*A*a**2*b*d**2*m*n**2*x*x**(3*n)*(e*x)**m/(m* \\
& *7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n \\
& **3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n** \\
& 3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 \\
& + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 35 \\
& 28*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n* \\
& *6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 270*A*a**2*b \\
& *d**2*m*n*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + \\
& 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 \\
& + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 \\
& + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m \\
& **2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 87 \\
& 5*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 17 \\
& 5*n**2 + 21*n + 1) + 18*A*a**2*b*d**2*m*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6 \\
& *n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m* \\
& *4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m** \\
& 3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2 \\
& *n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + \\
& 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n* \\
& *5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 720*A*a**2*b*d**2*n**5*x \\
& *x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n \\
& + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m** \\
& 3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2 \\
& *n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21* \\
& m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + \\
& 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21 \\
& *n + 1) + 1524*A*a**2*b*d**2*n**4*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7 \\
& *m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n** \\
& 2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 \\
& + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 \\
& + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m \\
& *n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1 \\
& 624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 1116*A*a**2*b*d**2*n**3*x*x**(\\
& 3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21* \\
& m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**
\end{aligned}$$

$$\begin{aligned}
& 4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 \\
& + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 \\
& + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m \\
& *n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + \\
& 1) + 363*A*a**2*b*d**2*n**2*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 \\
& + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 31 \\
& 5*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420 \\
& *m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750 \\
& *m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 \\
& + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n* \\
& *4 + 735*n**3 + 175*n**2 + 21*n + 1) + 54*A*a**2*b*d**2*n*x*x**(3*n)*(e*x)* \\
& *m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735* \\
& m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m* \\
& *3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m** \\
& 2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n** \\
& 6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + \\
& 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 3*A*a* \\
& *2*b*d**2*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + \\
& 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 \\
& + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 \\
& + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m \\
& **2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 87 \\
& 5*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 17 \\
& 5*n**2 + 21*n + 1) + 3*A*a*b**2*c**2*m**6*x*x**(2*n)*(e*x)**m/(m**7 + 21*m* \\
& *6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875* \\
& m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m \\
& **3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m* \\
& *2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 \\
& + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764* \\
& n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 57*A*a*b**2*c**2*m**5* \\
& n*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5 \\
& *n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624* \\
& m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m \\
& **2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + \\
& 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 \\
& + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + \\
& 21*n + 1) + 18*A*a*b**2*c**2*m**5*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + \\
& 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n* \\
& *2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n** \\
& 2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 \\
& + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872* \\
& m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + \\
& 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 411*A*a*b**2*c**2*m**4*n**2*x \\
& *x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n \\
& + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**
\end{aligned}$$

$$\begin{aligned}
& 3n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n + 35m^{**3} + 1764m^{**2} \\
& n^{**5} + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2}n^{**2} + 315m^{**2}n + 21m^{**2} \\
& + 720m*n^{**6} + 3528m*n^{**5} + 4872m*n^{**4} + 2940m*n^{**3} + 875m*n^{**2} + \\
& 126m*n + 7*m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21 \\
& *n + 1) + 285*A*a*b^{**2}*c^{**2}*m^{**4}*n*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + \\
& 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n* \\
& *2 + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} \\
& + 420m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} \\
& + 1750m^{**2}n^{**2} + 315m^{**2}n + 21m^{**2} + 720m*n^{**6} + 3528m*n^{**5} + 4872* \\
& m*n^{**4} + 2940m*n^{**3} + 875m*n^{**2} + 126m*n + 7*m + 720n^{**6} + 1764n^{**5} + \\
& 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21*n + 1) + 45*A*a*b^{**2}*c^{**2}*m^{**4}*x*x^{**}(2 \\
& *n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m \\
& **5 + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}n^{**4} \\
& + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**5} \\
& + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2}n^{**2} + 315m^{**2}n + 21m^{**2} + \\
& 720m*n^{**6} + 3528m*n^{**5} + 4872m*n^{**4} + 2940m*n^{**3} + 875m*n^{**2} + 126m* \\
& n + 7*m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21*n + 1 \\
&) + 1383*A*a*b^{**2}*c^{**2}*m^{**3}n^{**3}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7* \\
& m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} \\
& + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} \\
& + 420m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} + \\
& 1750m^{**2}n^{**2} + 315m^{**2}n + 21m^{**2} + 720m*n^{**6} + 3528m*n^{**5} + 4872m* \\
& n^{**4} + 2940m*n^{**3} + 875m*n^{**2} + 126m*n + 7*m + 720n^{**6} + 1764n^{**5} + 16 \\
& 24n^{**4} + 735n^{**3} + 175n^{**2} + 21*n + 1) + 1644*A*a*b^{**2}*c^{**2}*m^{**3}n^{**2}*x* \\
& x^{**}(2*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + \\
& 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3} \\
& *n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**5} \\
& + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2}n^{**2} + 315m^{**2}n + 21m \\
& **2 + 720m*n^{**6} + 3528m*n^{**5} + 4872m*n^{**4} + 2940m*n^{**3} + 875m*n^{**2} + 1 \\
& 26m*n + 7*m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21* \\
& n + 1) + 570*A*a*b^{**2}*c^{**2}*m^{**3}n*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7 \\
& *m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} \\
& + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} \\
& + 420m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} \\
& + 1750m^{**2}n^{**2} + 315m^{**2}n + 21m^{**2} + 720m*n^{**6} + 3528m*n^{**5} + 4872m* \\
& n^{**4} + 2940m*n^{**3} + 875m*n^{**2} + 126m*n + 7*m + 720n^{**6} + 1764n^{**5} + 1 \\
& 624n^{**4} + 735n^{**3} + 175n^{**2} + 21*n + 1) + 60*A*a*b^{**2}*c^{**2}*m^{**3}*x*x^{**}(2* \\
& n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m \\
& *5 + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}n^{**4} \\
& + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**5} + \\
& 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2}n^{**2} + 315m^{**2}n + 21m^{**2} + \\
& 720m*n^{**6} + 3528m*n^{**5} + 4872m*n^{**4} + 2940m*n^{**3} + 875m*n^{**2} + 126m*n \\
& + 7*m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21*n + 1) \\
& + 2106*A*a*b^{**2}*c^{**2}*m^{**2}n^{**4}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m \\
& **6 + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2}
\end{aligned}$$

$$\begin{aligned}
& + 315m^{4n} + 35m^{4n} + 1624m^{3n} + 2940m^{3n} + 1750m^{3n} + 420m^{3n} + 35m^{3n} + 1764m^{2n} + 4872m^{2n} + 4410m^{2n} + 1750m^{2n} + 315m^{2n} + 21m^{2n} + 720m^{n} + 3528m^{n} + 4872m^{n} \\
& + 2940m^{n} + 875m^{n} + 126m^{n} + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 4149A^2c^2m^{2n}x^3x^{2n} \\
& \cdot (e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 \\
& + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 \\
& + 720m^{n} + 3528m^{n} + 4872m^{n} + 2940m^{n} + 875m^{n} + 126m^{n} + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n \\
& + 1) + 2466A^2c^2m^{2n}x^3x^{2n} \cdot (e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 \\
& + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 \\
& + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^{n} + 3528m^{n} + 4872m^{n} + 2940m^{n} + 875m^{n} + 126m^{n} + 7m + 720n^6 + 1764n^5 \\
& + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 570A^2c^2m^{2n}x^3x^{2n} \cdot (e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n \\
& + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 \\
& + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^{n} + 3528m^{n} + 4872m^{n} + 2940m^{n} + 875m^{n} + 126m^{n} \\
& + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 45A^2c^2m^{2n}x^3x^{2n} \cdot (e^x)^m / (m^7 + 21m^6n + 7m^6 \\
& + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 \\
& + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^{n} + 3528m^{n} + 4872m^{n} \\
& + 2940m^{n} + 875m^{n} + 126m^{n} + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 1080A^2c^2m^{2n}x^5x^{2n} \\
& \cdot (e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 \\
& + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^{n} \\
& + 3528m^{n} + 4872m^{n} + 2940m^{n} + 875m^{n} + 126m^{n} + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) \\
& + 4212A^2c^2m^{2n}x^4x^{2n} \cdot (e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n \\
& + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 \\
& + 315m^2n + 21m^2 + 720m^{n} + 3528m^{n} + 4872m^{n} + 2940m^{n} + 875m^{n} + 126m^{n} + 7m + 720n^6 + 1764n^5 + 1624n^4 \\
& + 735n^3 + 175n^2 + 21n + 1) + 4149A^2c^2m^{2n}x^3x^{2n} \cdot (e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5
\end{aligned}$$

$$\begin{aligned}
& *5 + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} \\
& + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + \\
& 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + \\
& 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n \\
& + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) \\
& + 1644*A*a*b^{**2}*c^{**2}*m*n^{**2}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} \\
& + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 3 \\
& 15*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 42 \\
& 0*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 175 \\
& 0*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} \\
& + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n \\
& **4 + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 285*A*a*b^{**2}*c^{**2}*m*n*x*x^{**}(2*n)*(e \\
& *x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + \\
& 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 294 \\
& 0*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872 \\
& *m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m \\
& *n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7* \\
& m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 18 \\
& *A*a*b^{**2}*c^{**2}*m*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5} \\
& n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + \\
& 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 3 \\
& 5*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} \\
& + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{** \\
& *3 + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{** \\
& *3 + 175*n^{**2} + 21*n + 1) + 1080*A*a*b^{**2}*c^{**2}*n^{**5}*x*x^{**}(2*n)*(e*x)^{**m}/(m \\
& *7 + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n \\
& **3 + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{** \\
& 3 + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} \\
& + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 35 \\
& 28*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{** \\
& *6 + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 2106*A*a*b^{** \\
& 2}*c^{**2}*n^{**4}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} \\
& + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m \\
& **4 + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m \\
& **3 + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315 \\
& *m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + \\
& 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + \\
& 175*n^{**2} + 21*n + 1) + 1383*A*a*b^{**2}*c^{**2}*n^{**3}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**7} + \\
& 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + \\
& 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1 \\
& 750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 44 \\
& 10*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m \\
& n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + \\
& 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 411*A*a*b^{**2}*c^{**2} \\
& *n^{**2}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*
\end{aligned}$$

$$\begin{aligned}
& m^{**5*n} + 21*m^{**5} + 735*m^{**4*n**3} + 875*m^{**4*n**2} + 315*m^{**4*n} + 35*m^{**4} + 1 \\
& 624*m^{**3*n**4} + 2940*m^{**3*n**3} + 1750*m^{**3*n**2} + 420*m^{**3*n} + 35*m^{**3} + 17 \\
& 64*m^{**2*n**5} + 4872*m^{**2*n**4} + 4410*m^{**2*n**3} + 1750*m^{**2*n**2} + 315*m^{**2*n} \\
& + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m* \\
& n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n* \\
& *2 + 21*n + 1) + 57*A*a*b^{**2*c**2*n*x*x**}(2*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6*n} + \\
& 7*m^{**6} + 175*m^{**5*n**2} + 126*m^{**5*n} + 21*m^{**5} + 735*m^{**4*n**3} + 875*m^{**4*n} \\
& **2 + 315*m^{**4*n} + 35*m^{**4} + 1624*m^{**3*n**4} + 2940*m^{**3*n**3} + 1750*m^{**3*n*} \\
& *2 + 420*m^{**3*n} + 35*m^{**3} + 1764*m^{**2*n**5} + 4872*m^{**2*n**4} + 4410*m^{**2*n**} \\
& 3 + 1750*m^{**2*n**2} + 315*m^{**2*n} + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872 \\
& *m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + \\
& 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 3*A*a*b^{**2*c**2*x*x**}(2*n)*(\\
& e*x)^{**m}/(m^{**7} + 21*m^{**6*n} + 7*m^{**6} + 175*m^{**5*n**2} + 126*m^{**5*n} + 21*m^{**5} + \\
& 735*m^{**4*n**3} + 875*m^{**4*n**2} + 315*m^{**4*n} + 35*m^{**4} + 1624*m^{**3*n**4} + 29 \\
& 40*m^{**3*n**3} + 1750*m^{**3*n**2} + 420*m^{**3*n} + 35*m^{**3} + 1764*m^{**2*n**5} + 487 \\
& 2*m^{**2*n**4} + 4410*m^{**2*n**3} + 1750*m^{**2*n**2} + 315*m^{**2*n} + 21*m^{**2} + 720* \\
& m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7 \\
& *m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 6 \\
& *A*a*b^{**2*c*d*m**6*x*x**}(3*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6*n} + 7*m^{**6} + 175*m^{**} \\
& 5*n^{**2} + 126*m^{**5*n} + 21*m^{**5} + 735*m^{**4*n**3} + 875*m^{**4*n**2} + 315*m^{**4*n} \\
& + 35*m^{**4} + 1624*m^{**3*n**4} + 2940*m^{**3*n**3} + 1750*m^{**3*n**2} + 420*m^{**3*n} + \\
& 35*m^{**3} + 1764*m^{**2*n**5} + 4872*m^{**2*n**4} + 4410*m^{**2*n**3} + 1750*m^{**2*n**} \\
& 2 + 315*m^{**2*n} + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m* \\
& n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735* \\
& n^{**3} + 175*n^{**2} + 21*n + 1) + 108*A*a*b^{**2*c*d*m**5*n*x*x**}(3*n)*(e*x)^{**m}/(\\
& m^{**7} + 21*m^{**6*n} + 7*m^{**6} + 175*m^{**5*n**2} + 126*m^{**5*n} + 21*m^{**5} + 735*m^{**4} \\
& *n^{**3} + 875*m^{**4*n**2} + 315*m^{**4*n} + 35*m^{**4} + 1624*m^{**3*n**4} + 2940*m^{**3*n} \\
& **3 + 1750*m^{**3*n**2} + 420*m^{**3*n} + 35*m^{**3} + 1764*m^{**2*n**5} + 4872*m^{**2*n**} \\
& *4 + 4410*m^{**2*n**3} + 1750*m^{**2*n**2} + 315*m^{**2*n} + 21*m^{**2} + 720*m*n^{**6} + \\
& 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720* \\
& n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 36*A*a*b^{**} \\
& 2*c*d*m^{**5*x*x**}(3*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6*n} + 7*m^{**6} + 175*m^{**5*n**2} + \\
& 126*m^{**5*n} + 21*m^{**5} + 735*m^{**4*n**3} + 875*m^{**4*n**2} + 315*m^{**4*n} + 35*m^{**} \\
& 4 + 1624*m^{**3*n**4} + 2940*m^{**3*n**3} + 1750*m^{**3*n**2} + 420*m^{**3*n} + 35*m^{**3} \\
& + 1764*m^{**2*n**5} + 4872*m^{**2*n**4} + 4410*m^{**2*n**3} + 1750*m^{**2*n**2} + 315* \\
& m^{**2*n} + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 8 \\
& 75*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 1 \\
& 75*n^{**2} + 21*n + 1) + 726*A*a*b^{**2*c*d*m**4*n**2*x*x**}(3*n)*(e*x)^{**m}/(m^{**7} \\
& + 21*m^{**6*n} + 7*m^{**6} + 175*m^{**5*n**2} + 126*m^{**5*n} + 21*m^{**5} + 735*m^{**4*n**3} \\
& + 875*m^{**4*n**2} + 315*m^{**4*n} + 35*m^{**4} + 1624*m^{**3*n**4} + 2940*m^{**3*n**3} + \\
& 1750*m^{**3*n**2} + 420*m^{**3*n} + 35*m^{**3} + 1764*m^{**2*n**5} + 4872*m^{**2*n**4} + \\
& 4410*m^{**2*n**3} + 1750*m^{**2*n**2} + 315*m^{**2*n} + 21*m^{**2} + 720*m*n^{**6} + 3528* \\
& m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} \\
& + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 540*A*a*b^{**2*c*} \\
& d*m^{**4*n*x*x**}(3*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6*n} + 7*m^{**6} + 175*m^{**5*n**2} + 1
\end{aligned}$$

$$\begin{aligned}
& 26m^{5n} + 21m^{5n} + 735m^{4n} + 875m^{4n} + 315m^{4n} + 35m^{4n} \\
& + 1624m^{3n} + 2940m^{3n} + 1750m^{3n} + 420m^{3n} + 35m^{3n} + \\
& 1764m^{2n} + 4872m^{2n} + 4410m^{2n} + 1750m^{2n} + 315m^{2n} \\
& + 21m^{2n} + 720m^{2n} + 3528m^{2n} + 4872m^{2n} + 2940m^{2n} + 875 \\
& m^{2n} + 126m^{2n} + 7m + 720m^{2n} + 1764m^{2n} + 1624m^{2n} + 735m^{2n} + 175 \\
& m^{2n} + 21m^{2n} + 1) + 90A^2B^2C^2D^2m^{4n}x^3(e^x)^m / (m^7 + 21m^{6n} \\
& + 7m^{6n} + 175m^{5n} + 126m^{5n} + 21m^{5n} + 735m^{4n} + 875m^{4n} \\
& + 315m^{4n} + 35m^{4n} + 1624m^{3n} + 2940m^{3n} + 1750m^{3n} \\
& + 420m^{3n} + 35m^{3n} + 1764m^{2n} + 4872m^{2n} + 4410m^{2n} \\
& + 1750m^{2n} + 315m^{2n} + 21m^{2n} + 720m^{2n} + 3528m^{2n} + \\
& 4872m^{2n} + 2940m^{2n} + 875m^{2n} + 126m^{2n} + 7m + 720m^{2n} + 1764m^{2n} \\
& + 1624m^{2n} + 735m^{2n} + 175m^{2n} + 21m^{2n} + 1) + 2232A^2B^2C^2D^3m^{3n} \\
& x^3(e^x)^m / (m^7 + 21m^{6n} + 7m^{6n} + 175m^{5n} + 126m^{5n} \\
& + 21m^{5n} + 735m^{4n} + 875m^{4n} + 315m^{4n} + 35m^{4n} + 16 \\
& 24m^{3n} + 2940m^{3n} + 1750m^{3n} + 420m^{3n} + 35m^{3n} + 176 \\
& 4m^{2n} + 4872m^{2n} + 4410m^{2n} + 1750m^{2n} + 315m^{2n} \\
& + 21m^{2n} + 720m^{2n} + 3528m^{2n} + 4872m^{2n} + 2940m^{2n} + 875m^{2n} \\
& + 126m^{2n} + 7m + 720m^{2n} + 1764m^{2n} + 1624m^{2n} + 735m^{2n} + 175m^{2n} \\
& + 21m^{2n} + 1) + 2904A^2B^2C^2D^3m^{3n}x^2(e^x)^m / (m^7 + 21m^{6n} \\
& + 7m^{6n} + 175m^{5n} + 126m^{5n} + 21m^{5n} + 735m^{4n} + 875m^{4n} \\
& + 315m^{4n} + 35m^{4n} + 1624m^{3n} + 2940m^{3n} + 1750m^{3n} \\
& + 420m^{3n} + 35m^{3n} + 1764m^{2n} + 4872m^{2n} + 4410m^{2n} \\
& + 1750m^{2n} + 315m^{2n} + 21m^{2n} + 720m^{2n} + 3528m^{2n} \\
& + 4872m^{2n} + 2940m^{2n} + 875m^{2n} + 126m^{2n} + 7m + 720m^{2n} + 176 \\
& 4m^{2n} + 1624m^{2n} + 735m^{2n} + 175m^{2n} + 21m^{2n} + 1) + 1080A^2B^2C^2D^3m^{3n} \\
& x^3(e^x)^m / (m^7 + 21m^{6n} + 7m^{6n} + 175m^{5n} + 126m^{5n} \\
& + 21m^{5n} + 735m^{4n} + 875m^{4n} + 315m^{4n} + 35m^{4n} + 16 \\
& 24m^{3n} + 2940m^{3n} + 1750m^{3n} + 420m^{3n} + 35m^{3n} + 176 \\
& 4m^{2n} + 4872m^{2n} + 4410m^{2n} + 1750m^{2n} + 315m^{2n} \\
& + 21m^{2n} + 720m^{2n} + 3528m^{2n} + 4872m^{2n} + 2940m^{2n} + 875m^{2n} \\
& + 126m^{2n} + 7m + 720m^{2n} + 1764m^{2n} + 1624m^{2n} + 735m^{2n} + 175m^{2n} \\
& + 21m^{2n} + 1) + 120A^2B^2C^2D^3m^{3n}x^3(e^x)^m / (m^7 + 21m^{6n} \\
& + 7m^{6n} + 175m^{5n} + 126m^{5n} + 21m^{5n} + 735m^{4n} + 875m^{4n} \\
& + 315m^{4n} + 35m^{4n} + 1624m^{3n} + 2940m^{3n} + 1750m^{3n} \\
& + 420m^{3n} + 35m^{3n} + 1764m^{2n} + 4872m^{2n} + 4410m^{2n} \\
& + 1750m^{2n} + 315m^{2n} + 21m^{2n} + 720m^{2n} + 3528m^{2n} + 48 \\
& 72m^{2n} + 2940m^{2n} + 875m^{2n} + 126m^{2n} + 7m + 720m^{2n} + 1764m^{2n} \\
& + 1624m^{2n} + 735m^{2n} + 175m^{2n} + 21m^{2n} + 1) + 3048A^2B^2C^2D^2m^{2n} \\
& x^4(e^x)^m / (m^7 + 21m^{6n} + 7m^{6n} + 175m^{5n} + 126m^{5n} \\
& + 21m^{5n} + 735m^{4n} + 875m^{4n} + 315m^{4n} + 35m^{4n} + 1624m^{3n} \\
& + 2940m^{3n} + 1750m^{3n} + 420m^{3n} + 35m^{3n} + 1764m^{2n} \\
& + 4872m^{2n} + 4410m^{2n} + 1750m^{2n} + 315m^{2n} + 21m^{2n} \\
& + 720m^{2n} + 3528m^{2n} + 4872m^{2n} + 2940m^{2n} + 875m^{2n} \\
& + 126m^{2n} + 7m + 720m^{2n} + 1764m^{2n} + 1624m^{2n} + 735m^{2n} + 175m^{2n} \\
& + 21m^{2n} + 1) + 6696A^2B^2C^2D^2m^{2n}x^3(e^x)^m / (m^7 + 21m^{6n}
\end{aligned}$$

$$\begin{aligned}
& 6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m \\
& **4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m* \\
& *3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m** \\
& 2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + \\
& 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n \\
& **5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 4356*A*a*b**2*c*d*m**2* \\
& n**2*x*x***(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m \\
& **5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 16 \\
& 24*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 176 \\
& 4*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n \\
& + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n \\
& **2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n** \\
& 2 + 21*n + 1) + 1080*A*a*b**2*c*d*m**2*n*x*x***(3*n)*(e*x)**m/(m**7 + 21*m** \\
& 6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m \\
& **4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m* \\
& *3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m** \\
& 2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + \\
& 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n \\
& **5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 90*A*a*b**2*c*d*m**2*x* \\
& x***(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + \\
& 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3 \\
& *n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2* \\
& n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m \\
& **2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 1 \\
& 26*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21* \\
& n + 1) + 1440*A*a*b**2*c*d*m*n**5*x*x***(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7 \\
& *m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n** \\
& 2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 \\
& + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 \\
& + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m \\
& *n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1 \\
& 624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 6096*A*a*b**2*c*d*m*n**4*x*x** \\
& (3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21 \\
& *m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n* \\
& *4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n** \\
& 5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 \\
& + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126* \\
& m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + \\
& 1) + 6696*A*a*b**2*c*d*m*n**3*x*x***(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m* \\
& *6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + \\
& 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + \\
& 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1 \\
& 750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n* \\
& **4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624 \\
& *n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 2904*A*a*b**2*c*d*m*n**2*x*x***(3*
\end{aligned}$$

$$\begin{aligned}
& *n)*(e^x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 \\
& **5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 \\
& + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 \\
& + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + \\
& 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m* \\
& n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1 \\
&) + 6*A*a*b**2*c*d*x*x**(3*n)*(e^x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5 \\
& *n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n \\
& + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + \\
& 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 \\
& + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m* \\
& n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735* \\
& n**3 + 175*n**2 + 21*n + 1) + 3*A*a*b**2*d**2*m**6*x*x**(4*n)*(e^x)**m/(m** \\
& 7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n* \\
& **3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 \\
& + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 \\
& + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 352 \\
& 8*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n** \\
& 6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 51*A*a*b**2*d \\
& **2*m**5*n*x*x**(4*n)*(e^x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + \\
& 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m** \\
& 4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 \\
& + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315* \\
& m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 8 \\
& 75*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 1 \\
& 75*n**2 + 21*n + 1) + 18*A*a*b**2*d**2*m**5*x*x**(4*n)*(e^x)**m/(m**7 + 21* \\
& m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 87 \\
& 5*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750 \\
& *m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410* \\
& m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n** \\
& 5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 176 \\
& 4*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 321*A*a*b**2*d**2*m* \\
& **4*n**2*x*x**(4*n)*(e^x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 12 \\
& 6*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + \\
& 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + \\
& 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m** \\
& 2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875* \\
& m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175* \\
& n**2 + 21*n + 1) + 255*A*a*b**2*d**2*m**4*n*x*x**(4*n)*(e^x)**m/(m**7 + 21* \\
& m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 87 \\
& 5*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750 \\
& *m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410* \\
& m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n** \\
& 5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 176 \\
& 4*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 45*A*a*b**2*d**2*m**
\end{aligned}$$

$$\begin{aligned}
& 4*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5 \\
& *n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624* \\
& m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m \\
& **2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + \\
& 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 \\
& + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + \\
& 21*n + 1) + 921*A*a*b**2*d**2*m**3*n**3*x*x**(4*n)*(e*x)**m/(m**7 + 21*m** \\
& 6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m \\
& **4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m \\
& **3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m** \\
& 2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + \\
& 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n \\
& **5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 1284*A*a*b**2*d**2*m**3 \\
& *n**2*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126* \\
& m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1 \\
& 624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 17 \\
& 64*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2* \\
& n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m* \\
& n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n* \\
& **2 + 21*n + 1) + 510*A*a*b**2*d**2*m**3*n*x*x*x**(4*n)*(e*x)**m/(m**7 + 21*m \\
& **6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875* \\
& m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m \\
& **3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m* \\
& **2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 \\
& + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764* \\
& n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 60*A*a*b**2*d**2*m**3* \\
& x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n \\
& + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m* \\
& **3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m** \\
& 2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21 \\
& *m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + \\
& 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 2 \\
& 1*n + 1) + 1188*A*a*b**2*d**2*m**2*n**4*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6 \\
& *n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m \\
& **4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m** \\
& 3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2 \\
& *n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + \\
& 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n* \\
& **5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 2763*A*a*b**2*d**2*m**2* \\
& n**3*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m \\
& **5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 16 \\
& 24*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 176 \\
& 4*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n \\
& + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n \\
& **2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**
\end{aligned}$$

$$\begin{aligned}
& 2 + 21n + 1) + 1926A^*a^*b^{**2}d^{**2}m^{**2}n^{**2}x^*x^{**}(4n)*(e^*x)^{**m}/(m^{**7} + 21 \\
& m^{**6}n + 7m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} + 8 \\
& 75m^{**4}n^{**2} + 315m^{**4}n + 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 175 \\
& 0m^{**3}n^{**2} + 420m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 4410 \\
& m^{**2}n^{**3} + 1750m^{**2}n^{**2} + 315m^{**2}n + 21m^{**2} + 720m^*n^{**6} + 3528m^*n^* \\
& *5 + 4872m^*n^{**4} + 2940m^*n^{**3} + 875m^*n^{**2} + 126m^*n + 7m + 720n^{**6} + 17 \\
& 64n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21n + 1) + 510A^*a^*b^{**2}d^{**2}m \\
& **2n^*x^*x^{**}(4n)*(e^*x)^{**m}/(m^{**7} + 21m^{**6}n + 7m^{**6} + 175m^{**5}n^{**2} + 126m \\
& m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} + 875m^{**4}n^{**2} + 315m^{**4}n + 35m^{**4} + 1 \\
& 624m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n + 35m^{**3} + 17 \\
& 64m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2}n^{**2} + 315m^{**2}n \\
& n + 21m^{**2} + 720m^*n^{**6} + 3528m^*n^{**5} + 4872m^*n^{**4} + 2940m^*n^{**3} + 875m^* \\
& n^{**2} + 126m^*n + 7m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^* \\
& *2 + 21n + 1) + 45A^*a^*b^{**2}d^{**2}m^{**2}x^*x^{**}(4n)*(e^*x)^{**m}/(m^{**7} + 21m^{**6}n \\
& n + 7m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} + 875m^{** \\
& 4n^{**2} + 315m^{**4}n + 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3} \\
& n^{**2} + 420m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 4410m^{**2}n \\
& n^{**3} + 1750m^{**2}n^{**2} + 315m^{**2}n + 21m^{**2} + 720m^*n^{**6} + 3528m^*n^{**5} + 4 \\
& 872m^*n^{**4} + 2940m^*n^{**3} + 875m^*n^{**2} + 126m^*n + 7m + 720n^{**6} + 1764n^{** \\
& 5 + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21n + 1) + 540A^*a^*b^{**2}d^{**2}m^{**5}x \\
& *x^{**}(4n)*(e^*x)^{**m}/(m^{**7} + 21m^{**6}n + 7m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n \\
& + 21m^{**5} + 735m^{**4}n^{**3} + 875m^{**4}n^{**2} + 315m^{**4}n + 35m^{**4} + 1624m^* \\
& *3n^{**4} + 2940m^*3n^{**3} + 1750m^*3n^{**2} + 420m^*3n + 35m^*3 + 1764m^* \\
& 2n^{**5} + 4872m^*2n^{**4} + 4410m^*2n^{**3} + 1750m^*2n^{**2} + 315m^*2n + 21 \\
& m^*2 + 720m^*n^{**6} + 3528m^*n^{**5} + 4872m^*n^{**4} + 2940m^*n^{**3} + 875m^*n^{**2} + \\
& 126m^*n + 7m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 2 \\
& 1n + 1) + 2376A^*a^*b^{**2}d^{**2}m^*n^{**4}x^*x^{**}(4n)*(e^*x)^{**m}/(m^{**7} + 21m^{**6}n \\
& + 7m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} + 875m^{**4}n \\
& n^{**2} + 315m^{**4}n + 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n \\
& **2 + 420m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 4410m^{**2}n^* \\
& *3 + 1750m^{**2}n^{**2} + 315m^{**2}n + 21m^{**2} + 720m^*n^{**6} + 3528m^*n^{**5} + 487 \\
& 2m^*n^{**4} + 2940m^*n^{**3} + 875m^*n^{**2} + 126m^*n + 7m + 720n^{**6} + 1764n^{**5} \\
& + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21n + 1) + 2763A^*a^*b^{**2}d^{**2}m^*n^{**3}x \\
& *x^{**}(4n)*(e^*x)^{**m}/(m^{**7} + 21m^{**6}n + 7m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n \\
& + 21m^{**5} + 735m^{**4}n^{**3} + 875m^{**4}n^{**2} + 315m^{**4}n + 35m^{**4} + 1624m^* \\
& *3n^{**4} + 2940m^*3n^{**3} + 1750m^*3n^{**2} + 420m^*3n + 35m^*3 + 1764m^*2 \\
& n^{**5} + 4872m^*2n^{**4} + 4410m^*2n^{**3} + 1750m^*2n^{**2} + 315m^*2n + 21m^* \\
& m^*2 + 720m^*n^{**6} + 3528m^*n^{**5} + 4872m^*n^{**4} + 2940m^*n^{**3} + 875m^*n^{**2} + \\
& 126m^*n + 7m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21 \\
& *n + 1) + 1284A^*a^*b^{**2}d^{**2}m^*n^{**2}x^*x^{**}(4n)*(e^*x)^{**m}/(m^{**7} + 21m^{**6}n + \\
& 7m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} + 875m^{**4}n \\
& **2 + 315m^{**4}n + 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n^* \\
& *2 + 420m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 4410m^{**2}n^* \\
& *3 + 1750m^{**2}n^{**2} + 315m^{**2}n + 21m^{**2} + 720m^*n^{**6} + 3528m^*n^{**5} + 4872 \\
& m^*n^{**4} + 2940m^*n^{**3} + 875m^*n^{**2} + 126m^*n + 7m + 720n^{**6} + 1764n^{**5} +
\end{aligned}$$

$$\begin{aligned}
& 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 255A^2ab^2d^2m^2n^2x^2x^2(\\
& 4n)(e^x)^m/(m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 \\
& + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 \\
& + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 \\
& + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 \\
& + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m \\
& n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + \\
& 1) + 18A^2ab^2d^2m^2n^2x^2x^2(4n)(e^x)^m/(m^7 + 21m^6n + 7m^6 + 17 \\
& 5m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4 \\
& n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3 \\
& n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2 \\
& n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 29 \\
& 40m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + \\
& 735n^3 + 175n^2 + 21n + 1) + 540A^2ab^2d^2n^2x^2x^2(4n)(e^x)^ \\
& m/(m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4 \\
& n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3 \\
& n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2 \\
& n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 \\
& + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + \\
& 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 1188A^2 \\
& ab^2d^2n^2x^2x^2(4n)(e^x)^m/(m^7 + 21m^6n + 7m^6 + 175m^5 \\
& n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + \\
& 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + \\
& 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 \\
& + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2 \\
& n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n \\
& ^3 + 175n^2 + 21n + 1) + 921A^2ab^2d^2n^2x^2x^2(4n)(e^x)^m/(m^ \\
& ^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n \\
& ^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 \\
& + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 \\
& + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 35 \\
& 28m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^ \\
& ^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 321A^2ab^2 \\
& d^2n^2x^2x^2(4n)(e^x)^m/(m^7 + 21m^6n + 7m^6 + 175m^5n^2 + \\
& 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 \\
& + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 \\
& + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2 \\
& n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 8 \\
& 75m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 1 \\
& 75n^2 + 21n + 1) + 51A^2ab^2d^2n^2x^2x^2(4n)(e^x)^m/(m^7 + 21m^6 \\
& n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4 \\
& n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3 \\
& n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2 \\
& n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + \\
& 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n
\end{aligned}$$

$$\begin{aligned}
& **5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 3*A*a*b**2*d**2*x*x** (4 \\
& *n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m \\
& **5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 \\
& + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 \\
& + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + \\
& 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m* \\
& n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1 \\
&) + A*b**3*c**2*m**6*x*x** (3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m \\
& **5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4* \\
& n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n \\
& + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n \\
& **2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940* \\
& m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 73 \\
& 5*n**3 + 175*n**2 + 21*n + 1) + 18*A*b**3*c**2*m**5*n*x*x** (3*n)*(e*x)**m/(\\
& m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4 \\
& *n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n \\
& **3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n* \\
& *4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + \\
& 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720* \\
& n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 6*A*b**3*c \\
& **2*m**5*x*x** (3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 1 \\
& 26*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 \\
& + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + \\
& 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m* \\
& **2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875 \\
& *m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175 \\
& *n**2 + 21*n + 1) + 121*A*b**3*c**2*m**4*n**2*x*x** (3*n)*(e*x)**m/(m**7 + 2 \\
& 1*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + \\
& 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 17 \\
& 50*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 441 \\
& 0*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n \\
& **5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1 \\
& 764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 90*A*b**3*c**2*m** \\
& 4*n*x*x** (3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m* \\
& **5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 162 \\
& 4*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764 \\
& *m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n \\
& + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n* \\
& **2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 \\
& + 21*n + 1) + 15*A*b**3*c**2*m**4*x*x** (3*n)*(e*x)**m/(m**7 + 21*m**6*n + \\
& 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n* \\
& **2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n** \\
& 2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 \\
& + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872* \\
& m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 +
\end{aligned}$$

$1624n^{**4} + 735n^{**3} + 175n^{**2} + 21n + 1) + 372A*b^{**3}c^{**2}m^{**3}n^{**3}x*x$
 $** (3n)*(e*x)**m/(m^{**7} + 21m^{**6}n + 7m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n +$
 $21m^{**5} + 735m^{**4}n^{**3} + 875m^{**4}n^{**2} + 315m^{**4}n + 35m^{**4} + 1624m^{**3}$
 $n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n + 35m^{**3} + 1764m^{**2}n$
 $**5 + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2}n^{**2} + 315m^{**2}n + 21m$
 $**2 + 720m*n^{**6} + 3528m*n^{**5} + 4872m*n^{**4} + 2940m*n^{**3} + 875m*n^{**2} + 12$
 $6m*n + 7m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21n$
 $+ 1) + 484A*b^{**3}c^{**2}m^{**3}n^{**2}x*x** (3n)*(e*x)**m/(m^{**7} + 21m^{**6}n + 7$
 $m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} + 875m^{**4}n^{**$
 $2 + 315m^{**4}n + 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2}$
 $+ 420m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3}$
 $+ 1750m^{**2}n^{**2} + 315m^{**2}n + 21m^{**2} + 720m*n^{**6} + 3528m*n^{**5} + 4872m$
 $*n^{**4} + 2940m*n^{**3} + 875m*n^{**2} + 126m*n + 7m + 720n^{**6} + 1764n^{**5} + 1$
 $624n^{**4} + 735n^{**3} + 175n^{**2} + 21n + 1) + 180A*b^{**3}c^{**2}m^{**3}n*x*x** (3$
 $n)*(e*x)**m/(m^{**7} + 21m^{**6}n + 7m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n + 21m$
 $**5 + 735m^{**4}n^{**3} + 875m^{**4}n^{**2} + 315m^{**4}n + 35m^{**4} + 1624m^{**3}n^{**4}$
 $+ 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**5}$
 $+ 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2}n^{**2} + 315m^{**2}n + 21m^{**2} +$
 $720m*n^{**6} + 3528m*n^{**5} + 4872m*n^{**4} + 2940m*n^{**3} + 875m*n^{**2} + 126m*$
 $n + 7m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21n + 1$
 $) + 20A*b^{**3}c^{**2}m^{**3}x*x** (3n)*(e*x)**m/(m^{**7} + 21m^{**6}n + 7m^{**6} + 17$
 $5m^{**5}n^{**2} + 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} + 875m^{**4}n^{**2} + 315m$
 $**4n + 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m$
 $**3n + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m$
 $**2n^{**2} + 315m^{**2}n + 21m^{**2} + 720m*n^{**6} + 3528m*n^{**5} + 4872m*n^{**4} + 29$
 $40m*n^{**3} + 875m*n^{**2} + 126m*n + 7m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} +$
 $735n^{**3} + 175n^{**2} + 21n + 1) + 508A*b^{**3}c^{**2}m^{**2}n^{**4}x*x** (3n)*(e$
 $x)**m/(m^{**7} + 21m^{**6}n + 7m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n + 21m^{**5} + 7$
 $35m^{**4}n^{**3} + 875m^{**4}n^{**2} + 315m^{**4}n + 35m^{**4} + 1624m^{**3}n^{**4} + 2940$
 $m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**5} + 4872*$
 $m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2}n^{**2} + 315m^{**2}n + 21m^{**2} + 720m*$
 $n^{**6} + 3528m*n^{**5} + 4872m*n^{**4} + 2940m*n^{**3} + 875m*n^{**2} + 126m*n + 7m$
 $+ 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21n + 1) + 111$
 $6A*b^{**3}c^{**2}m^{**2}n^{**3}x*x** (3n)*(e*x)**m/(m^{**7} + 21m^{**6}n + 7m^{**6} + 17$
 $5m^{**5}n^{**2} + 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} + 875m^{**4}n^{**2} + 315m$
 $**4n + 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m$
 $**3n + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m$
 $**2n^{**2} + 315m^{**2}n + 21m^{**2} + 720m*n^{**6} + 3528m*n^{**5} + 4872m*n^{**4} + 29$
 $40m*n^{**3} + 875m*n^{**2} + 126m*n + 7m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} +$
 $735n^{**3} + 175n^{**2} + 21n + 1) + 726A*b^{**3}c^{**2}m^{**2}n^{**2}x*x** (3n)*(e$
 $x)**m/(m^{**7} + 21m^{**6}n + 7m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n + 21m^{**5} + 7$
 $35m^{**4}n^{**3} + 875m^{**4}n^{**2} + 315m^{**4}n + 35m^{**4} + 1624m^{**3}n^{**4} + 2940$
 $m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**5} + 4872*$
 $m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2}n^{**2} + 315m^{**2}n + 21m^{**2} + 720m*$
 $n^{**6} + 3528m*n^{**5} + 4872m*n^{**4} + 2940m*n^{**3} + 875m*n^{**2} + 126m*n + 7m$

$$\begin{aligned}
& *n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + \\
& 1) + 6*A*b**3*c**2*m*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m \\
& **5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4* \\
& n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n \\
& + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n \\
& **2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940* \\
& m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 73 \\
& 5*n**3 + 175*n**2 + 21*n + 1) + 240*A*b**3*c**2*n**5*x*x**(3*n)*(e*x)**m/(m \\
& **7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4* \\
& n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n* \\
& **3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n** \\
& 4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3 \\
& 528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n \\
& **6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 508*A*b**3* \\
& c**2*n**4*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + \\
& 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 \\
& + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 \\
& + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m \\
& **2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 87 \\
& 5*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 17 \\
& 5*n**2 + 21*n + 1) + 372*A*b**3*c**2*n**3*x*x**(3*n)*(e*x)**m/(m**7 + 21*m* \\
& **6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875* \\
& m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m \\
& **3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m* \\
& **2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 \\
& + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764* \\
& n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 121*A*b**3*c**2*n**2*x \\
& *x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n \\
& + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m** \\
& 3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2 \\
& *n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21* \\
& m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + \\
& 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21 \\
& *n + 1) + 18*A*b**3*c**2*n*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + \\
& 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315 \\
& *m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420* \\
& m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750* \\
& m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + \\
& 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n** \\
& 4 + 735*n**3 + 175*n**2 + 21*n + 1) + A*b**3*c**2*x*x**(3*n)*(e*x)**m/(m**7 \\
& + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n** \\
& 3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 \\
& + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + \\
& 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528 \\
& *m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6
\end{aligned}$$

$$\begin{aligned}
& + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 2*A*b^{**3}*c*d*m \\
& **6*x*x^{**}(4*n)*(e*x)**m/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m* \\
& *5*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 162 \\
& 4*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764 \\
& *m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n \\
& + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n* \\
& *2 + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} \\
& + 21*n + 1) + 34*A*b^{**3}*c*d*m^{**5}*n*x*x^{**}(4*n)*(e*x)**m/(m^{**7} + 21*m^{**6}*n + \\
& 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n \\
& **2 + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n* \\
& *2 + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{** \\
& 3 + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872 \\
& *m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + \\
& 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 12*A*b^{**3}*c*d*m^{**5}*x*x^{**}(4*n \\
&)*(e*x)**m/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m* \\
& 5 + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + \\
& 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + \\
& 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 7 \\
& 20*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n \\
& + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) \\
& + 214*A*b^{**3}*c*d*m^{**4}*n^{**2}*x*x^{**}(4*n)*(e*x)**m/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + \\
& 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315 \\
& *m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420* \\
& m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750* \\
& m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + \\
& 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{** \\
& 4 + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 170*A*b^{**3}*c*d*m^{**4}*n*x*x^{**}(4*n)*(e*x \\
&)**m/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 73 \\
& 5*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940* \\
& m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m \\
& **2*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n \\
& **6 + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m \\
& + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 30*A \\
& *b^{**3}*c*d*m^{**4}*x*x^{**}(4*n)*(e*x)**m/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n* \\
& *2 + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35 \\
& *m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35* \\
& m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + \\
& 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} \\
& + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} \\
& + 175*n^{**2} + 21*n + 1) + 614*A*b^{**3}*c*d*m^{**3}*n^{**3}*x*x^{**}(4*n)*(e*x)**m/(m^{** \\
& 7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n* \\
& *3 + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} \\
& + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} \\
& + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 352 \\
& 8*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**
\end{aligned}$$

$6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 856A^3B^3C^3d^3m^3n^2x^2x^{(4n)}(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720mn^6 + 3528m^5n + 4872mn^4 + 2940mn^3 + 875mn^2 + 126mn + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 340A^3B^3C^3d^3m^3n^2x^2x^{(4n)}(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720mn^6 + 3528m^5n + 4872mn^4 + 2940mn^3 + 875mn^2 + 126mn + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 40A^3B^3C^3d^3m^3n^2x^2x^{(4n)}(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720mn^6 + 3528m^5n + 4872mn^4 + 2940mn^3 + 875mn^2 + 126mn + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 792A^3B^3C^3d^3m^3n^2x^2x^{(4n)}(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720mn^6 + 3528m^5n + 4872mn^4 + 2940mn^3 + 875mn^2 + 126mn + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 1842A^3B^3C^3d^3m^3n^2x^2x^{(4n)}(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720mn^6 + 3528m^5n + 4872mn^4 + 2940mn^3 + 875mn^2 + 126mn + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 1284A^3B^3C^3d^3m^3n^2x^2x^{(4n)}(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720mn^6 + 3528m^5n + 4872mn^4 + 2940mn^3 + 875mn^2 + 126mn + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 340A^3B^3C^3d^3m^3n^2x^2x^{(4n)}(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720mn^6 + 3528m^5n + 4872mn^4 + 2940mn^3 + 875mn^2 + 126m$

$$\begin{aligned}
& n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1 \\
&) + 30*A*b**3*c*d*m**2*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175* \\
& m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m** \\
& 4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3 \\
& *n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2 \\
& *n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 294 \\
& 0*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + \\
& 735*n**3 + 175*n**2 + 21*n + 1) + 360*A*b**3*c*d*m*n**5*x*x**(4*n)*(e*x)**m \\
& /(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m* \\
& **4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3 \\
& *n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2* \\
& n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 \\
& + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 72 \\
& 0*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 1584*A*b \\
& **3*c*d*m*n**4*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n* \\
& **2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35 \\
& m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35* \\
& m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + \\
& 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 \\
& + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 \\
& + 175*n**2 + 21*n + 1) + 1842*A*b**3*c*d*m*n**3*x*x**(4*n)*(e*x)**m/(m**7 \\
& + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 \\
& + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + \\
& 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + \\
& 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528* \\
& m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 \\
& + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 856*A*b**3*c*d* \\
& m*n**2*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126 \\
& m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + \\
& 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1 \\
& 764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2 \\
& *n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m \\
& *n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n \\
& **2 + 21*n + 1) + 170*A*b**3*c*d*m*n*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n \\
& + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4* \\
& n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n \\
& **2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n* \\
& **3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 487 \\
& 2*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 \\
& + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 12*A*b**3*c*d*m*x*x**(4*n)* \\
& (e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 \\
& + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2 \\
& 940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 48 \\
& 72*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720 \\
& *m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n +
\end{aligned}$$

$$\begin{aligned}
& 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + \\
& 360*A*b**3*c*d*n**5*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m** \\
& *5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n \\
& + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n \\
& + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n** \\
& *2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m \\
& *n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735 \\
& *n**3 + 175*n**2 + 21*n + 1) + 792*A*b**3*c*d*n**4*x*x**(4*n)*(e*x)**m/(m** \\
& 7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n** \\
& *3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 \\
& + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 \\
& + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 352 \\
& 8*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n** \\
& 6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 614*A*b**3*c*d \\
& *n**3*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126 \\
& *m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + \\
& 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1 \\
& 764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2 \\
& *n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m \\
& *n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n \\
& **2 + 21*n + 1) + 214*A*b**3*c*d*n**2*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n \\
& + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4 \\
& *n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n \\
& **2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n \\
& **3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 48 \\
& 72*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 \\
& + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 34*A*b**3*c*d*n*x*x**(4*n) \\
& *(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 \\
& + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + \\
& 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4 \\
& 872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 72 \\
& 0*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + \\
& 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + \\
& 2*A*b**3*c*d*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n** \\
& 2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35* \\
& m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m \\
& **3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 3 \\
& 15*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 \\
& + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 \\
& + 175*n**2 + 21*n + 1) + A*b**3*d**2*m**6*x*x**(5*n)*(e*x)**m/(m**7 + 21*m* \\
& *6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875* \\
& m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m \\
& **3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m* \\
& *2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 \\
& + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*
\end{aligned}$$

$$\begin{aligned}
& n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 16*A*b^{**3}*d^{**2}*m^{**5}*n \\
& x*x^{**5}*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n \\
& + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{** \\
& *3*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{** \\
& 2*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21 \\
& *m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + \\
& 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 2 \\
& 1*n + 1) + 6*A*b^{**3}*d^{**2}*m^{**5}*x*x^{**5}*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{** \\
& 6 + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + \\
& 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 4 \\
& 20*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 17 \\
& 50*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{** \\
& 4 + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624* \\
& n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 95*A*b^{**3}*d^{**2}*m^{**4}*n^{**2}*x*x^{**5}*(5*n) \\
& *(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{** \\
& 5 + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + \\
& 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + \\
& 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 7 \\
& 20*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n \\
& + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) \\
& + 80*A*b^{**3}*d^{**2}*m^{**4}*n*x*x^{**5}*(5*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 17 \\
& 5*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{** \\
& *4*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{** \\
& 3*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{** \\
& 2*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 29 \\
& 40*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + \\
& 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 15*A*b^{**3}*d^{**2}*m^{**4}*x*x^{**5}*(5*n)*(e*x)^{**m}/ \\
& (m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{** \\
& 4*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}* \\
& n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n \\
& **4 + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + \\
& 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720 \\
& *n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 260*A*b^{** \\
& 3}*d^{**2}*m^{**3}*n^{**3}*x*x^{**5}*(5*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}* \\
& n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + \\
& 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 3 \\
& 5*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} \\
& + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n* \\
& *3 + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n* \\
& *3 + 175*n^{**2} + 21*n + 1) + 380*A*b^{**3}*d^{**2}*m^{**3}*n^{**2}*x*x^{**5}*(5*n)*(e*x)^{**m}/(\\
& m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4} \\
& *n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n \\
& **3 + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n* \\
& *4 + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + \\
& 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*
\end{aligned}$$

$$\begin{aligned}
& n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 160*A*b^{**3} \\
& *d^{**2}*m^{**3}*n*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} \\
& + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m \\
& **4 + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m \\
& *3 + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 31 \\
& 5*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + \\
& 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + \\
& 175*n^{**2} + 21*n + 1) + 20*A*b^{**3}*d^{**2}*m^{**3}*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**7} + 21* \\
& m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 87 \\
& 5*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750 \\
& *m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410* \\
& m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{** \\
& 5 + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 176 \\
& 4*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 324*A*b^{**3}*d^{**2}*m^{**2} \\
& *n^{**4}*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126* \\
& m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1 \\
& 624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 17 \\
& 64*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}* \\
& n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m* \\
& n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n* \\
& *2 + 21*n + 1) + 780*A*b^{**3}*d^{**2}*m^{**2}*n^{**3}*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**7} + 21*m \\
& **6*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875 \\
& *m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750* \\
& m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m \\
& **2*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} \\
& + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764 \\
& *n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 570*A*b^{**3}*d^{**2}*m^{**2} \\
& *n^{**2}*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m \\
& **5*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 16 \\
& 24*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 176 \\
& 4*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n \\
& + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n \\
& **2 + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{** \\
& 2 + 21*n + 1) + 160*A*b^{**3}*d^{**2}*m^{**2}*n*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}* \\
& n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{** \\
& 4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3} \\
& *n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2} \\
& *n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4 \\
& 872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{** \\
& 5 + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 15*A*b^{**3}*d^{**2}*m^{**2}*x*x^{**} \\
& (5*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21 \\
& *m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n \\
& *4 + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{** \\
& 5 + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} \\
& + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*
\end{aligned}$$

$$\begin{aligned}
& m^n + 7m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21n + \\
& 1) + 144*A*b^{**3}*d^{**2}*m^n*5*x*x^{**5}*(e^x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} \\
& + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 3 \\
& 15*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 42 \\
& 0*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 175 \\
& 0*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m^n*6 + 3528*m^n*5 + 4872*m^n*4 \\
& + 2940*m^n*3 + 875*m^n*2 + 126*m^n + 7m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} \\
& + 735n^{**3} + 175n^{**2} + 21n + 1) + 648*A*b^{**3}*d^{**2}*m^n*4*x*x^{**5}*(e^x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + \\
& 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 29 \\
& 40*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 487 \\
& 2*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720* \\
& m^n*6 + 3528*m^n*5 + 4872*m^n*4 + 2940*m^n*3 + 875*m^n*2 + 126*m^n + 7 \\
& *m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21n + 1) + 7 \\
& 80*A*b^{**3}*d^{**2}*m^n*3*x*x^{**5}*(e^x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175* \\
& m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4} \\
& *n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}* \\
& n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}* \\
& n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m^n*6 + 3528*m^n*5 + 4872*m^n*4 + 2940 \\
& *m^n*3 + 875*m^n*2 + 126*m^n + 7m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 7 \\
& 35n^{**3} + 175n^{**2} + 21n + 1) + 380*A*b^{**3}*d^{**2}*m^n*2*x*x^{**5}*(e^x)^{**m} \\
& /(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m* \\
& *4*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3} \\
& *n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}* \\
& n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m^n*6 \\
& + 3528*m^n*5 + 4872*m^n*4 + 2940*m^n*3 + 875*m^n*2 + 126*m^n + 7m + 72 \\
& 0n^{**6} + 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21n + 1) + 80*A*b^{** \\
& 3}*d^{**2}*m^n*x*x^{**5}*(e^x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + \\
& 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{** \\
& 4 + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} \\
& + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315* \\
& m^{**2}*n + 21*m^{**2} + 720*m^n*6 + 3528*m^n*5 + 4872*m^n*4 + 2940*m^n*3 + 8 \\
& 75*m^n*2 + 126*m^n + 7m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 1 \\
& 75n^{**2} + 21n + 1) + 6*A*b^{**3}*d^{**2}*m*x*x^{**5}*(e^x)^{**m}/(m^{**7} + 21*m^{**6}*n \\
& + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4} \\
& *n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}* \\
& n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n \\
& **3 + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m^n*6 + 3528*m^n*5 + 48 \\
& 72*m^n*4 + 2940*m^n*3 + 875*m^n*2 + 126*m^n + 7m + 720n^{**6} + 1764n^{**5} \\
& + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21n + 1) + 144*A*b^{**3}*d^{**2}*n^{**5}*x*x^{** \\
& 5}*(e^x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21 \\
& *m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n* \\
& *4 + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{** \\
& 5 + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} \\
& + 720*m^n*6 + 3528*m^n*5 + 4872*m^n*4 + 2940*m^n*3 + 875*m^n*2 + 126*
\end{aligned}$$

$$\begin{aligned}
& m^n + 7^m + 720^n m^6 + 1764^n m^5 + 1624^n m^4 + 735^n m^3 + 175^n m^2 + 21^n + 1) + 324 A^3 b^3 d^2 n^4 x^x (5^n) (e^x)^m / (m^7 + 21 m^6 n + 7 m^6 + 175 m^5 n^2 + 126 m^5 n + 21 m^5 + 735 m^4 n^3 + 875 m^4 n^2 + 315 m^4 n + 35 m^4 + 1624 m^3 n^4 + 2940 m^3 n^3 + 1750 m^3 n^2 + 420 m^3 n + 35 m^3 + 1764 m^2 n^5 + 4872 m^2 n^4 + 4410 m^2 n^3 + 1750 m^2 n^2 + 315 m^2 n + 21 m^2 + 720 m n^6 + 3528 m n^5 + 4872 m n^4 + 2940 m n^3 + 875 m n^2 + 126 m n + 7^m + 720^n m^6 + 1764^n m^5 + 1624^n m^4 + 735^n m^3 + 175^n m^2 + 21^n + 1) + 260 A^3 b^3 d^2 n^3 x^x (5^n) (e^x)^m / (m^7 + 21 m^6 n + 7 m^6 + 175 m^5 n^2 + 126 m^5 n + 21 m^5 + 735 m^4 n^3 + 875 m^4 n^2 + 315 m^4 n + 35 m^4 + 1624 m^3 n^4 + 2940 m^3 n^3 + 1750 m^3 n^2 + 420 m^3 n + 35 m^3 + 1764 m^2 n^5 + 4872 m^2 n^4 + 4410 m^2 n^3 + 1750 m^2 n^2 + 315 m^2 n + 21 m^2 + 720 m n^6 + 3528 m n^5 + 4872 m n^4 + 2940 m n^3 + 875 m n^2 + 126 m n + 7^m + 720^n m^6 + 1764^n m^5 + 1624^n m^4 + 735^n m^3 + 175^n m^2 + 21^n + 1) + 95 A^3 b^3 d^2 n^2 x^x (5^n) (e^x)^m / (m^7 + 21 m^6 n + 7 m^6 + 175 m^5 n^2 + 126 m^5 n + 21 m^5 + 735 m^4 n^3 + 875 m^4 n^2 + 315 m^4 n + 35 m^4 + 1624 m^3 n^4 + 2940 m^3 n^3 + 1750 m^3 n^2 + 420 m^3 n + 35 m^3 + 1764 m^2 n^5 + 4872 m^2 n^4 + 4410 m^2 n^3 + 1750 m^2 n^2 + 315 m^2 n + 21 m^2 + 720 m n^6 + 3528 m n^5 + 4872 m n^4 + 2940 m n^3 + 875 m n^2 + 126 m n + 7^m + 720^n m^6 + 1764^n m^5 + 1624^n m^4 + 735^n m^3 + 175^n m^2 + 21^n + 1) + 16 A^3 b^3 d^2 n x^x (5^n) (e^x)^m / (m^7 + 21 m^6 n + 7 m^6 + 175 m^5 n^2 + 126 m^5 n + 21 m^5 + 735 m^4 n^3 + 875 m^4 n^2 + 315 m^4 n + 35 m^4 + 1624 m^3 n^4 + 2940 m^3 n^3 + 1750 m^3 n^2 + 420 m^3 n + 35 m^3 + 1764 m^2 n^5 + 4872 m^2 n^4 + 4410 m^2 n^3 + 1750 m^2 n^2 + 315 m^2 n + 21 m^2 + 720 m n^6 + 3528 m n^5 + 4872 m n^4 + 2940 m n^3 + 875 m n^2 + 126 m n + 7^m + 720^n m^6 + 1764^n m^5 + 1624^n m^4 + 735^n m^3 + 175^n m^2 + 21^n + 1) + A^3 b^3 d^2 x^x (5^n) (e^x)^m / (m^7 + 21 m^6 n + 7 m^6 + 175 m^5 n^2 + 126 m^5 n + 21 m^5 + 735 m^4 n^3 + 875 m^4 n^2 + 315 m^4 n + 35 m^4 + 1624 m^3 n^4 + 2940 m^3 n^3 + 1750 m^3 n^2 + 420 m^3 n + 35 m^3 + 1764 m^2 n^5 + 4872 m^2 n^4 + 4410 m^2 n^3 + 1750 m^2 n^2 + 315 m^2 n + 21 m^2 + 720 m n^6 + 3528 m n^5 + 4872 m n^4 + 2940 m n^3 + 875 m n^2 + 126 m n + 7^m + 720^n m^6 + 1764^n m^5 + 1624^n m^4 + 735^n m^3 + 175^n m^2 + 21^n + 1) + B^3 a^3 c^2 m^6 x^x n (e^x)^m / (m^7 + 21 m^6 n + 7 m^6 + 175 m^5 n^2 + 126 m^5 n + 21 m^5 + 735 m^4 n^3 + 875 m^4 n^2 + 315 m^4 n + 35 m^4 + 1624 m^3 n^4 + 2940 m^3 n^3 + 1750 m^3 n^2 + 420 m^3 n + 35 m^3 + 1764 m^2 n^5 + 4872 m^2 n^4 + 4410 m^2 n^3 + 1750 m^2 n^2 + 315 m^2 n + 21 m^2 + 720 m n^6 + 3528 m n^5 + 4872 m n^4 + 2940 m n^3 + 875 m n^2 + 126 m n + 7^m + 720^n m^6 + 1764^n m^5 + 1624^n m^4 + 735^n m^3 + 175^n m^2 + 21^n + 1) + 20 B^3 a^3 c^2 m^5 n x^x n (e^x)^m / (m^7 + 21 m^6 n + 7 m^6 + 175 m^5 n^2 + 126 m^5 n + 21 m^5 + 735 m^4 n^3 + 875 m^4 n^2 + 315 m^4 n + 35 m^4 + 1624 m^3 n^4 + 2940 m^3 n^3 + 1750 m^3 n^2 + 420 m^3 n + 35 m^3 + 1764 m^2 n^5 + 4872 m^2 n^4 + 4410 m^2 n^3 + 1750 m^2 n^2 + 315 m^2 n + 21 m^2 + 720 m n^6 + 3528 m n^5 + 4872 m n^4 + 2940 m n^3 + 875 m n^2 + 126 m n + 7^m + 720^n m^6 + 1764^n m^5 + 1624^n m^4 + 735^n m^3 + 175^n m^2 + 21^n + 1) + 176
\end{aligned}$$

$4n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 6B^3c^2m^5x$
 $x^n(e^x)^m/(m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21$
 $m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^*$
 $*4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^*$
 $5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2$
 $+ 720m^*n^6 + 3528m^*n^5 + 4872m^*n^4 + 2940m^*n^3 + 875m^*n^2 + 126*$
 $m^*n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n +$
 $1) + 155B^3c^2m^4n^2x^n(e^x)^m/(m^7 + 21m^6n + 7m^6$
 $+ 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 31$
 $5m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420$
 $m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750$
 $m^2n^2 + 315m^2n + 21m^2 + 720m^*n^6 + 3528m^*n^5 + 4872m^*n^4$
 $+ 2940m^*n^3 + 875m^*n^2 + 126m^*n + 7m + 720n^6 + 1764n^5 + 1624n^*$
 $*4 + 735n^3 + 175n^2 + 21n + 1) + 100B^3c^2m^4n^2x^n(e^x)^*$
 $*m/(m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735*$
 $m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^*$
 $*3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^*$
 $2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^*n^*$
 $6 + 3528m^*n^5 + 4872m^*n^4 + 2940m^*n^3 + 875m^*n^2 + 126m^*n + 7m +$
 $720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 15B^3a$
 $**3c^2m^4x^n(e^x)^m/(m^7 + 21m^6n + 7m^6 + 175m^5n^2 +$
 $126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4$
 $+ 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3$
 $+ 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m$
 $**2n + 21m^2 + 720m^*n^6 + 3528m^*n^5 + 4872m^*n^4 + 2940m^*n^3 + 87$
 $5m^*n^2 + 126m^*n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 17$
 $5n^2 + 21n + 1) + 580B^3c^2m^3n^3x^n(e^x)^m/(m^7 + 21m$
 $**6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875$
 $m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750*$
 $m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m$
 $**2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^*n^6 + 3528m^*n^5$
 $+ 4872m^*n^4 + 2940m^*n^3 + 875m^*n^2 + 126m^*n + 7m + 720n^6 + 1764$
 $n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 620B^3c^2m^3*$
 $n^2x^n(e^x)^m/(m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n$
 $+ 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m$
 $**3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^*$
 $*2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 2$
 $1m^2 + 720m^*n^6 + 3528m^*n^5 + 4872m^*n^4 + 2940m^*n^3 + 875m^*n^2$
 $+ 126m^*n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 +$
 $21n + 1) + 200B^3c^2m^3n^2x^n(e^x)^m/(m^7 + 21m^6n + 7m^*$
 $*6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 +$
 $315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 +$
 $420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1$
 $750m^2n^2 + 315m^2n + 21m^2 + 720m^*n^6 + 3528m^*n^5 + 4872m^*n^*$
 $*4 + 2940m^*n^3 + 875m^*n^2 + 126m^*n + 7m + 720n^6 + 1764n^5 + 1624$

$$\begin{aligned}
& *n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 20*B*a^{**3}*c^{**2}*m^{**3}*x*x^{**n}*(e*x)* \\
& *m/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735* \\
& m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{** \\
& *3*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{** \\
& 2*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{** \\
& 6 + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + \\
& 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 1044*B \\
& *a^{**3}*c^{**2}*m^{**2}*n^{**4}*x*x^{**n}*(e*x)**m/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5} \\
& n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + \\
& 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 3 \\
& 5*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} \\
& + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{** \\
& *3 + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{** \\
& *3 + 175*n^{**2} + 21*n + 1) + 1740*B*a^{**3}*c^{**2}*m^{**2}*n^{**3}*x*x^{**n}*(e*x)**m/(m^{** \\
& 7 + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{** \\
& *3 + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} \\
& + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} \\
& + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 352 \\
& 8*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{** \\
& 6 + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 930*B*a^{**3}*c^{** \\
& *2*m^{**2}*n^{**2}*x*x^{**n}*(e*x)**m/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 1 \\
& 26*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} \\
& + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + \\
& 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{** \\
& *2*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875 \\
& *m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175 \\
& *n^{**2} + 21*n + 1) + 200*B*a^{**3}*c^{**2}*m^{**2}*n^{**x}*x^{**n}*(e*x)**m/(m^{**7} + 21*m^{**6} \\
& n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{** \\
& 4*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3} \\
& *n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2} \\
& n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4 \\
& 872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{** \\
& 5 + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 15*B*a^{**3}*c^{**2}*m^{**2}*x*x^{** \\
& n}*(e*x)**m/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{** \\
& 5 + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + \\
& 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + \\
& 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 7 \\
& 20*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n \\
& + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) \\
& + 720*B*a^{**3}*c^{**2}*m*n^{**5}*x*x^{**n}*(e*x)**m/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m \\
& **5*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4} \\
& n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n \\
& + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n \\
& **2 + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940* \\
& m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 73
\end{aligned}$$

$$\begin{aligned}
& 5n^3 + 175n^2 + 21n + 1) + 2088B^3c^2m^4x^2x^n(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^1n^6 + 3528m^1n^5 + 4872m^1n^4 + 2940m^1n^3 + 875m^1n^2 + 126m^1n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 1740B^3c^2m^3x^2x^n(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^1n^6 + 3528m^1n^5 + 4872m^1n^4 + 2940m^1n^3 + 875m^1n^2 + 126m^1n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 620B^3c^2m^2x^2x^n(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^1n^6 + 3528m^1n^5 + 4872m^1n^4 + 2940m^1n^3 + 875m^1n^2 + 126m^1n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 100B^3c^2m^1x^2x^n(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^1n^6 + 3528m^1n^5 + 4872m^1n^4 + 2940m^1n^3 + 875m^1n^2 + 126m^1n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 6B^3c^2m^0x^2x^n(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^1n^6 + 3528m^1n^5 + 4872m^1n^4 + 2940m^1n^3 + 875m^1n^2 + 126m^1n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 720B^3c^2n^5x^2x^n(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^1n^6 + 3528m^1n^5 + 4872m^1n^4 + 2940m^1n^3 + 875m^1n^2 + 126m^1n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 1044B^3c^2n^4x^2x^n(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^1n^6 + 3528m^1n^5 + 4872m^1n^4 + 2940m^1n^3 + 875m^1n^2 + 126m^1n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1)
\end{aligned}$$

$$\begin{aligned}
& 1) + 580*B*a**3*c**2*n**3*x*x**n*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175 \\
& *m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m** \\
& 4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3 \\
& *n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2 \\
& *n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 294 \\
& 0*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + \\
& 735*n**3 + 175*n**2 + 21*n + 1) + 155*B*a**3*c**2*n**2*x*x**n*(e*x)**m/(m** \\
& 7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n* \\
& *3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 \\
& + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 \\
& + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 352 \\
& 8*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n** \\
& 6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 20*B*a**3*c** \\
& 2*n*x*x**n*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n \\
& + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m* \\
& *3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m** \\
& 2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21 \\
& *m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + \\
& 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 2 \\
& 1*n + 1) + B*a**3*c**2*x*x**n*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m** \\
& 5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n \\
& + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + \\
& 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n** \\
& 2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m* \\
& n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735* \\
& n**3 + 175*n**2 + 21*n + 1) + 2*B*a**3*c*d*m**6*x*x**2*n*(e*x)**m/(m**7 + \\
& 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 \\
& + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + \\
& 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4 \\
& 410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m \\
& *n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + \\
& 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 38*B*a**3*c*d*m* \\
& *5*n*x*x**2*n*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m \\
& **5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 16 \\
& 24*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 176 \\
& 4*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n \\
& + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n \\
& **2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n** \\
& 2 + 21*n + 1) + 12*B*a**3*c*d*m**5*x*x**2*n*(e*x)**m/(m**7 + 21*m**6*n + \\
& 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n* \\
& *2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n** \\
& 2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 \\
& + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872* \\
& m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + \\
& 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 274*B*a**3*c*d*m**4*n**2*x*x
\end{aligned}$$

$$\begin{aligned}
&*(2^n)*(e^x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 2 \\
&1*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n \\
&**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n* \\
&*5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m** \\
&2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126 \\
&*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n \\
&+ 1) + 190*B*a**3*c*d*m**4*n*x*x**(2^n)*(e^x)**m/(m**7 + 21*m**6*n + 7*m**6 \\
&+ 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 3 \\
&15*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 42 \\
&0*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 175 \\
&0*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 \\
&+ 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n \\
&>**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 30*B*a**3*c*d*m**4*x*x**(2^n)*(e^x) \\
&>**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735 \\
&*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m \\
&>**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m* \\
&*2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n* \\
&*6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + \\
&720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 922*B \\
&*a**3*c*d*m**3*n**3*x*x**(2^n)*(e^x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m* \\
&*5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n \\
&+ 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n \\
&+ 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n* \\
&*2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m \\
&*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735 \\
&*n**3 + 175*n**2 + 21*n + 1) + 1096*B*a**3*c*d*m**3*n**2*x*x**(2^n)*(e^x)** \\
&m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m \\
&>**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m** \\
&3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2 \\
&*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 \\
&+ 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 7 \\
&20*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 380*B*a \\
&>**3*c*d*m**3*n*x*x**(2^n)*(e^x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n* \\
&*2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35 \\
&*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35* \\
&m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + \\
&315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 \\
&+ 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 \\
&+ 175*n**2 + 21*n + 1) + 40*B*a**3*c*d*m**3*x*x**(2^n)*(e^x)**m/(m**7 + 21 \\
&*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 8 \\
&75*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 175 \\
&0*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410 \\
&*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n* \\
&*5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 17 \\
&64*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 1404*B*a**3*c*d*m**
\end{aligned}$$

$$\begin{aligned}
& 2^{n+4} x^x (2^n) (e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126 \\
& m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + \\
& 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1 \\
& 764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2 \\
& n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m \\
& n^2 + 126mn + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n \\
& ^2 + 21n + 1) + 2766B^3c^3d^2m^2n^3x^x(2^n)(e^x)^m / (m^7 + 21 \\
& m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 87 \\
& 5m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750 \\
& m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410 \\
& m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^ \\
& 5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126mn + 7m + 720n^6 + 176 \\
& 4n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 1644B^3c^3d^2m^2 \\
& n^2x^x(2^n)(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126 \\
& m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1 \\
& 624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 17 \\
& 64m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n \\
& n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m \\
& n^2 + 126mn + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n \\
& ^2 + 21n + 1) + 380B^3c^3d^2m^2n^2x^x(2^n)(e^x)^m / (m^7 + 21m^6n \\
& n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4 \\
& n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3 \\
& n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n \\
& n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4 \\
& 872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126mn + 7m + 720n^6 + 1764n^ \\
& 5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 30B^3c^3d^2m^2x^x(\\
& 2^n)(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21 \\
& m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^ \\
& 4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 \\
& + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 \\
& + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m \\
& n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + \\
& 1) + 720B^3c^3d^2m^2n^5x^x(2^n)(e^x)^m / (m^7 + 21m^6n + 7m^6 + \\
& 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315 \\
& m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420 \\
& m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750 \\
& m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + \\
& 2940m^2n^3 + 875m^2n^2 + 126mn + 7m + 720n^6 + 1764n^5 + 1624n^ \\
& 4 + 735n^3 + 175n^2 + 21n + 1) + 2808B^3c^3d^2m^2n^4x^x(2^n)(e \\
& x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 7 \\
& 35m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940 \\
& m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872 \\
& m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^ \\
& n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126mn + 7m \\
& + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 276
\end{aligned}$$

$$\begin{aligned}
& 6*B*a**3*c*d*m*n**3*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 1096*B*a**3*c*d*m*n**2*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 190*B*a**3*c*d*m*n*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 12*B*a**3*c*d*m*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 720*B*a**3*c*d*n**5*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 1404*B*a**3*c*d*n**4*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 922*B*a**3*c*d*n**3*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 274*B*a**
\end{aligned}$$

$$\begin{aligned}
& 3*c*d*n**2*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + \\
& 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m** \\
& 4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 \\
& + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315* \\
& m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 8 \\
& 75*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 1 \\
& 75*n**2 + 21*n + 1) + 38*B*a**3*c*d*n*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n \\
& + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4 \\
& *n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3* \\
& n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n \\
& **3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 48 \\
& 72*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 \\
& + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 2*B*a**3*c*d*x*x**(2*n)*(e \\
& *x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + \\
& 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 294 \\
& 0*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872 \\
& *m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m \\
& *n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7* \\
& m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + B* \\
& a**3*d**2*m**6*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n* \\
& *2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35 \\
& *m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35* \\
& m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + \\
& 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 \\
& + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 \\
& + 175*n**2 + 21*n + 1) + 18*B*a**3*d**2*m**5*n*x*x**(3*n)*(e*x)**m/(m**7 + \\
& 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 \\
& + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + \\
& 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4 \\
& 410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m \\
& *n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + \\
& 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 6*B*a**3*d**2*m* \\
& *5*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m** \\
& 5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624 \\
& *m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764* \\
& m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + \\
& 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n** \\
& 2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 \\
& + 21*n + 1) + 121*B*a**3*d**2*m**4*n**2*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6 \\
& *n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m* \\
& *4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m** \\
& 3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2 \\
& *n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + \\
& 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n* \\
& *5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 90*B*a**3*d**2*m**4*n*x*
\end{aligned}$$

$$\begin{aligned}
& x^{(3n)}(e^x)^m / (m^7 + 21m^6n + 7m^5n^2 + 175m^4n^3 + 126m^3n^4 + 21m^2n^5 + 735m^2n^4 + 875m^2n^3 + 315m^2n^2 + 35m^2n + 1624m^2n^3 + 2940m^2n^2 + 1750m^2n + 420m^2n + 35m^2n + 1764m^2n^2n^5 + 4872m^2n^2n^4 + 4410m^2n^2n^3 + 1750m^2n^2n^2 + 315m^2n^2n + 21m^2n^2 + 720m^2n^2n^6 + 3528m^2n^2n^5 + 4872m^2n^2n^4 + 2940m^2n^2n^3 + 875m^2n^2n^2 + 126m^2n^2n + 7m^2n^2 + 720n^2n^6 + 1764n^2n^5 + 1624n^2n^4 + 735n^2n^3 + 175n^2n^2 + 21n^2 + 1) + 15B^3d^2m^4x^x(3n)(e^x)^m / (m^7 + 21m^6n + 7m^5n^2 + 175m^4n^3 + 126m^3n^4 + 21m^2n^5 + 735m^2n^4 + 875m^2n^3 + 315m^2n^2 + 35m^2n + 1624m^2n^3 + 2940m^2n^2 + 1750m^2n + 420m^2n + 35m^2n + 1764m^2n^2n^5 + 4872m^2n^2n^4 + 4410m^2n^2n^3 + 1750m^2n^2n^2 + 315m^2n^2n + 21m^2n^2 + 720m^2n^2n^6 + 3528m^2n^2n^5 + 4872m^2n^2n^4 + 2940m^2n^2n^3 + 875m^2n^2n^2 + 126m^2n^2n + 7m^2n^2 + 720n^2n^6 + 1764n^2n^5 + 1624n^2n^4 + 735n^2n^3 + 175n^2n^2 + 21n^2 + 1) + 372B^3d^2m^3n^3x^x(3n)(e^x)^m / (m^7 + 21m^6n + 7m^5n^2 + 175m^4n^3 + 126m^3n^4 + 21m^2n^5 + 735m^2n^4 + 875m^2n^3 + 315m^2n^2 + 35m^2n + 1624m^2n^3 + 2940m^2n^2 + 1750m^2n + 420m^2n + 35m^2n + 1764m^2n^2n^5 + 4872m^2n^2n^4 + 4410m^2n^2n^3 + 1750m^2n^2n^2 + 315m^2n^2n + 21m^2n^2 + 720m^2n^2n^6 + 3528m^2n^2n^5 + 4872m^2n^2n^4 + 2940m^2n^2n^3 + 875m^2n^2n^2 + 126m^2n^2n + 7m^2n^2 + 720n^2n^6 + 1764n^2n^5 + 1624n^2n^4 + 735n^2n^3 + 175n^2n^2 + 21n^2 + 1) + 484B^3d^2m^3n^2x^x(3n)(e^x)^m / (m^7 + 21m^6n + 7m^5n^2 + 175m^4n^3 + 126m^3n^4 + 21m^2n^5 + 735m^2n^4 + 875m^2n^3 + 315m^2n^2 + 35m^2n + 1624m^2n^3 + 2940m^2n^2 + 1750m^2n + 420m^2n + 35m^2n + 1764m^2n^2n^5 + 4872m^2n^2n^4 + 4410m^2n^2n^3 + 1750m^2n^2n^2 + 315m^2n^2n + 21m^2n^2 + 720m^2n^2n^6 + 3528m^2n^2n^5 + 4872m^2n^2n^4 + 2940m^2n^2n^3 + 875m^2n^2n^2 + 126m^2n^2n + 7m^2n^2 + 720n^2n^6 + 1764n^2n^5 + 1624n^2n^4 + 735n^2n^3 + 175n^2n^2 + 21n^2 + 1) + 180B^3d^2m^3n^2x^x(3n)(e^x)^m / (m^7 + 21m^6n + 7m^5n^2 + 175m^4n^3 + 126m^3n^4 + 21m^2n^5 + 735m^2n^4 + 875m^2n^3 + 315m^2n^2 + 35m^2n + 1624m^2n^3 + 2940m^2n^2 + 1750m^2n + 420m^2n + 35m^2n + 1764m^2n^2n^5 + 4872m^2n^2n^4 + 4410m^2n^2n^3 + 1750m^2n^2n^2 + 315m^2n^2n + 21m^2n^2 + 720m^2n^2n^6 + 3528m^2n^2n^5 + 4872m^2n^2n^4 + 2940m^2n^2n^3 + 875m^2n^2n^2 + 126m^2n^2n + 7m^2n^2 + 720n^2n^6 + 1764n^2n^5 + 1624n^2n^4 + 735n^2n^3 + 175n^2n^2 + 21n^2 + 1) + 20B^3d^2m^3x^x(3n)(e^x)^m / (m^7 + 21m^6n + 7m^5n^2 + 175m^4n^3 + 126m^3n^4 + 21m^2n^5 + 735m^2n^4 + 875m^2n^3 + 315m^2n^2 + 35m^2n + 1624m^2n^3 + 2940m^2n^2 + 1750m^2n + 420m^2n + 35m^2n + 1764m^2n^2n^5 + 4872m^2n^2n^4 + 4410m^2n^2n^3 + 1750m^2n^2n^2 + 315m^2n^2n + 21m^2n^2 + 720m^2n^2n^6 + 3528m^2n^2n^5 + 4872m^2n^2n^4 + 2940m^2n^2n^3 + 875m^2n^2n^2 + 126m^2n^2n + 7m^2n^2 + 720n^2n^6 + 1764n^2n^5 + 1624n^2n^4 + 735n^2n^3 + 175n^2n^2 + 21n^2 + 1) + 508B^3d^2m^2n^4x^x(3n)(e^x)^m / (m^7 + 21m^6n + 7m^5n^2 + 175m^4n^3 + 126m^3n^4 + 21m^2n^5 + 735m^2n^4 + 875m^2n^3 + 315m^2n^2 + 35m^2n + 1624m^2n^3 + 2940m^2n^2 + 1750m^2n + 420m^2n + 35m^2n + 1764m^2n^2n^5 + 4872m^2n^2n^4 + 4410m^2n^2n^3 + 1750m^2n^2n^2 + 315m^2n^2n + 21m^2n^2 + 720m^2n^2n^6 + 3528m^2n^2n^5 + 4872m^2n^2n^4 + 2940m^2n^2n^3 + 875m^2n^2n^2 + 126m^2n^2n + 7m^2n^2 + 720n^2n^6 + 1764n^2n^5 + 1624n^2n^4 + 735n^2n^3 + 175n^2n^2 + 21n^2 + 1) + 1116B^3
\end{aligned}$$

$$\begin{aligned}
& *3*d**2*m**2*n**3*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5 \\
& *n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + \\
& 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + \\
& 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 \\
& + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n \\
& **3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n \\
& **3 + 175*n**2 + 21*n + 1) + 726*B*a**3*d**2*m**2*n**2*x*x**(3*n)*(e*x)**m/ \\
& (m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m** \\
& 4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3* \\
& n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n \\
& **4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + \\
& 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720 \\
& *n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 180*B*a** \\
& 3*d**2*m**2*n*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n** \\
& 2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35* \\
& m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m \\
& **3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 3 \\
& 15*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 \\
& + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 \\
& + 175*n**2 + 21*n + 1) + 15*B*a**3*d**2*m**2*x*x*x**(3*n)*(e*x)**m/(m**7 + 21 \\
& *m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 8 \\
& 75*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 175 \\
& 0*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410 \\
& *m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n* \\
& **5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 17 \\
& 64*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 240*B*a**3*d**2*m*n \\
& **5*x*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m \\
& **5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 162 \\
& 4*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764 \\
& *m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n \\
& + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n* \\
& **2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 \\
& + 21*n + 1) + 1016*B*a**3*d**2*m*n**4*x*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6* \\
& n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m** \\
& 4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3 \\
& *n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2* \\
& n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4 \\
& 872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n** \\
& 5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 1116*B*a**3*d**2*m*n**3*x \\
& *x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n \\
& + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m** \\
& 3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2 \\
& *n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21* \\
& m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + \\
& 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21
\end{aligned}$$

$$\begin{aligned}
& *n + 1) + 484*B*a**3*d**2*m*n**2*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7* \\
& m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 \\
& + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 \\
& + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + \\
& 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m* \\
& n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 16 \\
& 24*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 90*B*a**3*d**2*m*n*x*x**(3*n)*(\\
& e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + \\
& 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 29 \\
& 40*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 487 \\
& 2*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720* \\
& m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7 \\
& *m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 6 \\
& *B*a**3*d**2*m*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n* \\
& **2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35 \\
& *m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35* \\
& m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + \\
& 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 \\
& + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 \\
& + 175*n**2 + 21*n + 1) + 240*B*a**3*d**2*n**5*x*x*x**(3*n)*(e*x)**m/(m**7 + \\
& 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + \\
& 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1 \\
& 750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 44 \\
& 10*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m* \\
& n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + \\
& 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 508*B*a**3*d**2*n \\
& **4*x*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m* \\
& **5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 162 \\
& 4*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764 \\
& *m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n \\
& + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n* \\
& **2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 \\
& + 21*n + 1) + 372*B*a**3*d**2*n**3*x*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + \\
& 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n \\
& **2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n* \\
& **2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n** \\
& 3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872 \\
& *m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + \\
& 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 121*B*a**3*d**2*n**2*x*x*x**(3 \\
& *n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m \\
& **5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 \\
& + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 \\
& + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + \\
& 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m* \\
& n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1
\end{aligned}$$

$$\begin{aligned}
& 1) + 45*B*a**2*b*c**2*m**4*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + \\
& 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315 \\
& *m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420* \\
& m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750* \\
& m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + \\
& 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n** \\
& 4 + 735*n**3 + 175*n**2 + 21*n + 1) + 1383*B*a**2*b*c**2*m**3*n**3*x*x**(2* \\
& n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m* \\
& **5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 \\
& + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + \\
& 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + \\
& 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n \\
& + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) \\
& + 1644*B*a**2*b*c**2*m**3*n**2*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m* \\
& **6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 \\
& + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + \\
& 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + \\
& 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n \\
& **4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 162 \\
& 4*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 570*B*a**2*b*c**2*m**3*n*x*x**(2 \\
& *n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m \\
& **5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 \\
& + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 \\
& + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + \\
& 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m* \\
& n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1 \\
&) + 60*B*a**2*b*c**2*m**3*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + \\
& 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315* \\
& m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m \\
& **3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m \\
& **2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + \\
& 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 \\
& + 735*n**3 + 175*n**2 + 21*n + 1) + 2106*B*a**2*b*c**2*m**2*n**4*x*x**(2*n \\
&)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m** \\
& 5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + \\
& 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + \\
& 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 7 \\
& 20*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n \\
& + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) \\
& + 4149*B*a**2*b*c**2*m**2*n**3*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m* \\
& **6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + \\
& 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + \\
& 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1 \\
& 750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n* \\
& **4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624
\end{aligned}$$

$$\begin{aligned}
& *n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 2466*B*a^{**2}*b*c^{**2}*m^{**2}*n^{**2}*x*x \\
& *(2*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 2 \\
& 1*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n \\
& **4 + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n* \\
& *5 + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{** \\
& 2 + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126 \\
& *m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n \\
& + 1) + 570*B*a^{**2}*b*c^{**2}*m^{**2}*n*x*x*(2*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m \\
& **6 + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} \\
& + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + \\
& 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + \\
& 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n \\
& **4 + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 162 \\
& 4*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 45*B*a^{**2}*b*c^{**2}*m^{**2}*x*x*(2*n) \\
& *(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} \\
& + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + \\
& 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4 \\
& 872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 72 \\
& 0*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + \\
& 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + \\
& 1080*B*a^{**2}*b*c^{**2}*m*n^{**5}*x*x*(2*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + \\
& 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315 \\
& *m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420* \\
& m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750* \\
& m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + \\
& 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{** \\
& 4 + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 4212*B*a^{**2}*b*c^{**2}*m*n^{**4}*x*x*(2*n)* \\
& (e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} \\
& + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2 \\
& 940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 48 \\
& 72*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720 \\
& *m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + \\
& 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + \\
& 4149*B*a^{**2}*b*c^{**2}*m*n^{**3}*x*x*(2*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + \\
& 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315* \\
& m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m \\
& **3*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m \\
& **2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + \\
& 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} \\
& + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 1644*B*a^{**2}*b*c^{**2}*m*n^{**2}*x*x*(2*n)*(\\
& e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + \\
& 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 29 \\
& 40*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 487 \\
& 2*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720* \\
& m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7
\end{aligned}$$

$$\begin{aligned}
& *m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 2 \\
& 85*B*a^{**2}*b*c^{**2}*m*n*x*x^{**}(2*n)*(e*x)**m/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m \\
& **5*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}* \\
& n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n \\
& + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n \\
& **2 + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940* \\
& m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 73 \\
& 5*n^{**3} + 175*n^{**2} + 21*n + 1) + 18*B*a^{**2}*b*c^{**2}*m*x*x^{**}(2*n)*(e*x)**m/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n* \\
& **3 + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} \\
& + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} \\
& + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 352 \\
& 8*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} \\
& + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 1080*B*a^{**2}*b \\
& *c^{**2}*n^{**5}*x*x^{**}(2*n)*(e*x)**m/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + \\
& 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} \\
& + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} \\
& + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315* \\
& m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 8 \\
& 75*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 1 \\
& 75*n^{**2} + 21*n + 1) + 2106*B*a^{**2}*b*c^{**2}*n^{**4}*x*x^{**}(2*n)*(e*x)**m/(m^{**7} + 2 \\
& 1*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + \\
& 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 17 \\
& 50*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 441 \\
& 0*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n \\
& **5 + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1 \\
& 764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 1383*B*a^{**2}*b*c^{**2} \\
& *n^{**3}*x*x^{**}(2*n)*(e*x)**m/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126* \\
& m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1 \\
& 624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 17 \\
& 64*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}* \\
& n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m* \\
& n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n* \\
& *2 + 21*n + 1) + 411*B*a^{**2}*b*c^{**2}*n^{**2}*x*x^{**}(2*n)*(e*x)**m/(m^{**7} + 21*m^{**6} \\
& *n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m* \\
& *4*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3} \\
& *n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2} \\
& *n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + \\
& 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n* \\
& *5 + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 57*B*a^{**2}*b*c^{**2}*n*x*x^{**} \\
& (2*n)*(e*x)**m/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21 \\
& *m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n* \\
& *4 + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{** \\
& 5 + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} \\
& + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*
\end{aligned}$$

$$\begin{aligned}
& m^n + 7m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21n + \\
& 1) + 3B*a**2*b*c**2*x*x**(2n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175* \\
& m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4 \\
& *n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n \\
& n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2* \\
& n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940 \\
& *m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 7 \\
& 35*n**3 + 175*n**2 + 21*n + 1) + 6B*a**2*b*c*d*m**6*x*x**(3n)*(e*x)**m/(m \\
& **7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4* \\
& n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n* \\
& *3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n** \\
& 4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3 \\
& 528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n \\
& **6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 108B*a**2* \\
& b*c*d*m**5*n*x*x**(3n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 \\
& + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m \\
& **4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m \\
& *3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 31 \\
& 5*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + \\
& 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + \\
& 175*n**2 + 21*n + 1) + 36B*a**2*b*c*d*m**5*x*x**(3n)*(e*x)**m/(m**7 + 21 \\
& *m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 8 \\
& 75*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 175 \\
& 0*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410 \\
& *m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n* \\
& *5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 17 \\
& 64*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 726B*a**2*b*c*d*m* \\
& *4*n**2*x*x**(3n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 12 \\
& 6*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + \\
& 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + \\
& 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m** \\
& 2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875* \\
& m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175* \\
& n**2 + 21*n + 1) + 540B*a**2*b*c*d*m**4*n*x*x**(3n)*(e*x)**m/(m**7 + 21*m \\
& **6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875 \\
& *m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750* \\
& m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m \\
& **2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 \\
& + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764 \\
& *n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 90B*a**2*b*c*d*m**4* \\
& x*x**(3n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n \\
& + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m* \\
& *3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m** \\
& 2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21 \\
& *m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 +
\end{aligned}$$

$$\begin{aligned} & 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 2 \\ & 1*n + 1) + 2232*B*a**2*b*c*d*m**3*n**3*x*x***(3*n)*(e*x)**m/(m**7 + 21*m**6* \\ & n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m** \\ & 4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3 \\ & *n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2* \\ & n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4 \\ & 872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n** \\ & 5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 2904*B*a**2*b*c*d*m**3*n* \\ & *2*x*x***(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m** \\ & 5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624 \\ & *m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764* \\ & m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + \\ & 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n** \\ & 2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 \\ & + 21*n + 1) + 1080*B*a**2*b*c*d*m**3*n*x*x***(3*n)*(e*x)**m/(m**7 + 21*m**6* \\ & n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m** \\ & 4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3 \\ & *n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2* \\ & n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4 \\ & 872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n** \\ & 5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 120*B*a**2*b*c*d*m**3*x*x \\ & ***(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + \\ & 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3* \\ & n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n \\ & **5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m* \\ & *2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 12 \\ & 6*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n \\ & + 1) + 3048*B*a**2*b*c*d*m**2*n**4*x*x***(3*n)*(e*x)**m/(m**7 + 21*m**6*n + \\ & 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n \\ & **2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n* \\ & *2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n** \\ & 3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872 \\ & *m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + \\ & 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 6696*B*a**2*b*c*d*m**2*n**3* \\ & x*x***(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n \\ & + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m* \\ & **3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m** \\ & 2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21 \\ & *m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + \\ & 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 2 \\ & 1*n + 1) + 4356*B*a**2*b*c*d*m**2*n**2*x*x***(3*n)*(e*x)**m/(m**7 + 21*m**6* \\ & n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m** \\ & 4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3 \\ & *n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2* \\ & n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4 \end{aligned}$$

$$\begin{aligned} & 872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} \\ & + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 1080*B*a^{**2}*b*c*d*m^{**2}*n \\ & *x*x^{**3}*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n \\ & + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m \\ & *^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2} \\ & *n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21 \\ & *m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + \\ & 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 2 \\ & 1*n + 1) + 90*B*a^{**2}*b*c*d*m^{**2}*x*x^{**3}*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m \\ & **6 + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} \\ & + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + \\ & 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + \\ & 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n \\ & **4 + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 162 \\ & 4*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 1440*B*a^{**2}*b*c*d*m^{**5}*x*x^{**3}*(3 \\ & *n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m \\ & **5 + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} \\ & + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} \\ & + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + \\ & 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m* \\ & n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1 \\ &) + 6096*B*a^{**2}*b*c*d*m^{**4}*x*x^{**3}*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} \\ & + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 3 \\ & 15*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 42 \\ & 0*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 175 \\ & 0*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} \\ & + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n \\ & **4 + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 6696*B*a^{**2}*b*c*d*m^{**3}*x*x^{**3}*(3*n) \\ & *(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} \\ & + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + \\ & 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4 \\ & 872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 72 \\ & 0*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + \\ & 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + \\ & 2904*B*a^{**2}*b*c*d*m^{**2}*x*x^{**3}*(3*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + \\ & 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315* \\ & m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m \\ & **3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m \\ & **2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + \\ & 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} \\ & + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 540*B*a^{**2}*b*c*d*m^{**1}*x*x^{**3}*(3*n)*(e*x) \\ & **m/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735* \\ & m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m \\ & **3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2} \\ & *n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**} \end{aligned}$$

$528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n$
 $**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 3*B*a**2*b*$
 $d**2*m**6*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 +$
 $126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4$
 $+ 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3$
 $+ 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m$
 $**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 87$
 $5*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 17$
 $5*n**2 + 21*n + 1) + 51*B*a**2*b*d**2*m**5*n*x*x**(4*n)*(e*x)**m/(m**7 + 21$
 $*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 8$
 $75*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 175$
 $0*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410$
 $*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n*$
 $*5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 17$
 $64*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 18*B*a**2*b*d**2*m*$
 $*5*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**$
 $5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624$
 $*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*$
 $m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n +$
 $21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**$
 $2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2$
 $+ 21*n + 1) + 321*B*a**2*b*d**2*m**4*n**2*x*x**(4*n)*(e*x)**m/(m**7 + 21*m*$
 $*6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*$
 $m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m$
 $**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m*$
 $*2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5$
 $+ 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*$
 $n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 255*B*a**2*b*d**2*m**4$
 $*n*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**$
 $5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624$
 $*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*$
 $m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n +$
 $21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**$
 $2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2$
 $+ 21*n + 1) + 45*B*a**2*b*d**2*m**4*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n +$
 $7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n$
 $**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n*$
 $*2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**$
 $3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872$
 $*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 +$
 $1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 921*B*a**2*b*d**2*m**3*n**3*$
 $x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n$
 $+ 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m*$
 $*3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**$
 $2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21$

$$\begin{aligned}
& m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + \\
& 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 2 \\
& 1*n + 1) + 1284*B*a^{**2}*b*d^{**2}*m^{**3}*n^{**2}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6} \\
& *n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m* \\
& *4*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{** \\
& 3*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2} \\
& *n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + \\
& 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n* \\
& *5 + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 510*B*a^{**2}*b*d^{**2}*m^{**3}*n \\
& *x*x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}* \\
& n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m \\
& **3*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m* \\
& *2*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 2 \\
& 1*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} \\
& + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + \\
& 21*n + 1) + 60*B*a^{**2}*b*d^{**2}*m^{**3}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7 \\
& *m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{** \\
& 2 + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} \\
& + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} \\
& + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m \\
& *n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1 \\
& 624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 1188*B*a^{**2}*b*d^{**2}*m^{**2}*n^{**4}*x \\
& *x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n \\
& + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{** \\
& 3*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2} \\
& *n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21* \\
& m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + \\
& 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21 \\
& *n + 1) + 2763*B*a^{**2}*b*d^{**2}*m^{**2}*n^{**3}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}* \\
& n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{** \\
& 4*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3} \\
& *n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}* \\
& n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4 \\
& 872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{** \\
& 5 + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 1926*B*a^{**2}*b*d^{**2}*m^{**2}*n \\
& **2*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m* \\
& *5*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 162 \\
& 4*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764 \\
& *m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n \\
& + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n* \\
& *2 + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} \\
& + 21*n + 1) + 510*B*a^{**2}*b*d^{**2}*m^{**2}*n*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6} \\
& *n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m* \\
& *4*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{** \\
& 3*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}
\end{aligned}$$

$$\begin{aligned}
& *n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + \\
& 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + \\
& 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 45*B*a^{**2}*b*d^{**2}*m^{**2}*x^{**} \\
& x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + \\
& 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3} \\
& *n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2} * \\
& n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m \\
& **2 + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 1 \\
& 26*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21* \\
& n + 1) + 540*B*a^{**2}*b*d^{**2}*m*n^{**5}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7 \\
& *m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**} \\
& 2 + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} \\
& + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} \\
& + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m \\
& *n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1 \\
& 624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 2376*B*a^{**2}*b*d^{**2}*m*n^{**4}*x*x^{**} \\
& *(4*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 2 \\
& 1*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n \\
& **4 + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**} \\
& *5 + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**} \\
& 2 + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126 \\
& *m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n \\
& + 1) + 2763*B*a^{**2}*b*d^{**2}*m*n^{**3}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7* \\
& m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} \\
& + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} \\
& + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + \\
& 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m \\
& n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 16 \\
& 24*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 1284*B*a^{**2}*b*d^{**2}*m*n^{**2}*x*x^{**} \\
& (4*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21 \\
& *m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n \\
& **4 + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**} \\
& 5 + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} \\
& + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126* \\
& m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + \\
& 1) + 255*B*a^{**2}*b*d^{**2}*m*n*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} \\
& + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 31 \\
& 5*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420 \\
& *m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750 \\
& *m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} \\
& + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**} \\
& *4 + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 18*B*a^{**2}*b*d^{**2}*m*x*x^{**}(4*n)*(e*x)* \\
& *m/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735* \\
& m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**} \\
& *3*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**}
\end{aligned}$$

$$\begin{aligned}
& 2n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2}n^{**2} + 315m^{**2}n + 21m^{**2} + 720m^{**n} \\
& 6 + 3528m^{**n}n^{**5} + 4872m^{**n}n^{**4} + 2940m^{**n}n^{**3} + 875m^{**n}n^{**2} + 126m^{**n} + 7m + \\
& 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21n + 1) + 540B^* \\
& a^{**2}b^*d^{**2}n^{**5}x^*x^{**}(4n)^*(e^*x)^{**}/(m^{**7} + 21m^{**6}n + 7m^{**6} + 175m^{**5}n^{**2} \\
& + 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} + 875m^{**4}n^{**2} + 315m^{**4}n + \\
& 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n + 3 \\
& 5m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2}n^{**2} \\
& + 315m^{**2}n + 21m^{**2} + 720m^{**n}n^{**6} + 3528m^{**n}n^{**5} + 4872m^{**n}n^{**4} + 2940m^{**n}n^{**3} \\
& + 875m^{**n}n^{**2} + 126m^{**n} + 7m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 735n^{**3} \\
& + 175n^{**2} + 21n + 1) + 1188B^*a^{**2}b^*d^{**2}n^{**4}x^*x^{**}(4n)^*(e^*x)^{**}/(m^* \\
& *7 + 21m^{**6}n + 7m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} \\
& + 875m^{**4}n^{**2} + 315m^{**4}n + 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**3}n^{**3} \\
& + 1750m^{**3}n^{**2} + 420m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} \\
& + 4410m^{**2}n^{**3} + 1750m^{**2}n^{**2} + 315m^{**2}n + 21m^{**2} + 720m^{**n}n^{**6} + 35 \\
& 28m^{**n}n^{**5} + 4872m^{**n}n^{**4} + 2940m^{**n}n^{**3} + 875m^{**n}n^{**2} + 126m^{**n} + 7m + 720n^{**} \\
& *6 + 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21n + 1) + 921B^*a^{**2}b^* \\
& d^{**2}n^{**3}x^*x^{**}(4n)^*(e^*x)^{**}/(m^{**7} + 21m^{**6}n + 7m^{**6} + 175m^{**5}n^{**2} + \\
& 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} + 875m^{**4}n^{**2} + 315m^{**4}n + 35m^{**} \\
& 4 + 1624m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n + 35m^{**3} \\
& + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2}n^{**2} + 315m^{**} \\
& m^{**2}n + 21m^{**2} + 720m^{**n}n^{**6} + 3528m^{**n}n^{**5} + 4872m^{**n}n^{**4} + 2940m^{**n}n^{**3} + 8 \\
& 75m^{**n}n^{**2} + 126m^{**n} + 7m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 1 \\
& 75n^{**2} + 21n + 1) + 321B^*a^{**2}b^*d^{**2}n^{**2}x^*x^{**}(4n)^*(e^*x)^{**}/(m^{**7} + 21 \\
& m^{**6}n + 7m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} + 8 \\
& 75m^{**4}n^{**2} + 315m^{**4}n + 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 175 \\
& 0m^{**3}n^{**2} + 420m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 4410 \\
& m^{**2}n^{**3} + 1750m^{**2}n^{**2} + 315m^{**2}n + 21m^{**2} + 720m^{**n}n^{**6} + 3528m^{**n}n^{**} \\
& *5 + 4872m^{**n}n^{**4} + 2940m^{**n}n^{**3} + 875m^{**n}n^{**2} + 126m^{**n} + 7m + 720n^{**6} + 17 \\
& 64n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21n + 1) + 51B^*a^{**2}b^*d^{**2}n^* \\
& x^*x^{**}(4n)^*(e^*x)^{**}/(m^{**7} + 21m^{**6}n + 7m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n \\
& + 21m^{**5} + 735m^{**4}n^{**3} + 875m^{**4}n^{**2} + 315m^{**4}n + 35m^{**4} + 1624m^{**} \\
& *3n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n + 35m^{**3} + 1764m^{**} \\
& 2n^{**5} + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2}n^{**2} + 315m^{**2}n + 21 \\
& m^{**2} + 720m^{**n}n^{**6} + 3528m^{**n}n^{**5} + 4872m^{**n}n^{**4} + 2940m^{**n}n^{**3} + 875m^{**n}n^{**2} + \\
& 126m^{**n} + 7m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 2 \\
& 1n + 1) + 3B^*a^{**2}b^*d^{**2}x^*x^{**}(4n)^*(e^*x)^{**}/(m^{**7} + 21m^{**6}n + 7m^{**6} + \\
& 175m^{**5}n^{**2} + 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} + 875m^{**4}n^{**2} + 315 \\
& m^{**4}n + 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m^{**} \\
& m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**} \\
& m^{**2}n^{**2} + 315m^{**2}n + 21m^{**2} + 720m^{**n}n^{**6} + 3528m^{**n}n^{**5} + 4872m^{**n}n^{**4} + \\
& 2940m^{**n}n^{**3} + 875m^{**n}n^{**2} + 126m^{**n} + 7m + 720n^{**6} + 1764n^{**5} + 1624n^{**} \\
& 4 + 735n^{**3} + 175n^{**2} + 21n + 1) + 3B^*a^*b^{**2}c^{**2}m^{**6}x^*x^{**}(3n)^*(e^*x) \\
& **/(m^{**7} + 21m^{**6}n + 7m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n + 21m^{**5} + 735 \\
& m^{**4}n^{**3} + 875m^{**4}n^{**2} + 315m^{**4}n + 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**} \\
& **3n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^*
\end{aligned}$$

$$\begin{aligned}
& *2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n* \\
& *6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + \\
& 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 54*B* \\
& a*b**2*c**2*m**5*n*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m** \\
& 5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n \\
& + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + \\
& 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n** \\
& 2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m* \\
& n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735* \\
& n**3 + 175*n**2 + 21*n + 1) + 18*B*a*b**2*c**2*m**5*x*x**(3*n)*(e*x)**m/(m* \\
& *7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n \\
& **3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n** \\
& 3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 \\
& + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 35 \\
& 28*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n* \\
& *6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 363*B*a*b**2 \\
& *c**2*m**4*n**2*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n \\
& **2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 3 \\
& 5*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35 \\
& *m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + \\
& 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n** \\
& 3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n** \\
& 3 + 175*n**2 + 21*n + 1) + 270*B*a*b**2*c**2*m**4*n*x*x**(3*n)*(e*x)**m/(m* \\
& *7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n \\
& **3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n** \\
& 3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 \\
& + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 35 \\
& 28*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n* \\
& *6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 45*B*a*b**2* \\
& c**2*m**4*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + \\
& 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 \\
& + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 \\
& + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m \\
& **2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 87 \\
& 5*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 17 \\
& 5*n**2 + 21*n + 1) + 1116*B*a*b**2*c**2*m**3*n**3*x*x**(3*n)*(e*x)**m/(m**7 \\
& + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n** \\
& 3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 \\
& + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + \\
& 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528 \\
& *m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 \\
& + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 1452*B*a*b**2* \\
& c**2*m**3*n**2*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n* \\
& *2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35 \\
& *m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*
\end{aligned}$$

$$\begin{aligned}
& m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + \\
& 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} \\
& + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} \\
& + 175*n^{**2} + 21*n + 1) + 540*B*a*b^{**2}*c^{**2}*m^{**3}*n*x*x^{**3}*n*(e*x)^{**m}/(m^{**7} \\
& + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n* \\
& *3 + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} \\
& + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} \\
& + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 352 \\
& 8*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} \\
& + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 60*B*a*b^{**2}*c \\
& **2*m^{**3}*x*x^{**3}*n*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 1 \\
& 26*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} \\
& + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + \\
& 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m* \\
& *2*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875 \\
& *m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175 \\
& *n^{**2} + 21*n + 1) + 1524*B*a*b^{**2}*c^{**2}*m^{**2}*n^{**4}*x*x^{**3}*n*(e*x)^{**m}/(m^{**7} \\
& + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} \\
& + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + \\
& 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + \\
& 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528* \\
& m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} \\
& + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 3348*B*a*b^{**2}*c \\
& **2*m^{**2}*n^{**3}*x*x^{**3}*n*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} \\
& + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35* \\
& m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m \\
& **3 + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 3 \\
& 15*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} \\
& + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} \\
& + 175*n^{**2} + 21*n + 1) + 2178*B*a*b^{**2}*c^{**2}*m^{**2}*n^{**2}*x*x^{**3}*n*(e*x)^{**m}/(\\
& m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4} \\
& *n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n \\
& **3 + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n* \\
& *4 + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + \\
& 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720* \\
& n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 540*B*a*b* \\
& *2*c^{**2}*m^{**2}*n*x*x^{**3}*n*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n* \\
& *2 + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35 \\
& *m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35* \\
& m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + \\
& 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} \\
& + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} \\
& + 175*n^{**2} + 21*n + 1) + 45*B*a*b^{**2}*c^{**2}*m^{**2}*x*x^{**3}*n*(e*x)^{**m}/(m^{**7} + \\
& 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} \\
& + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} +
\end{aligned}$$

$$\begin{aligned}
& + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + \\
& 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + \\
& 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n \\
& + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) \\
& + 1524*B*a*b^{**2}*c^{**2}*n^{**4}*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + \\
& 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315 \\
& m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420* \\
& m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750* \\
& m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + \\
& 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} \\
& + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 1116*B*a*b^{**2}*c^{**2}*n^{**3}*x*x^{**}(3*n)*(e \\
& *x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + \\
& 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 294 \\
& 0*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872 \\
& *m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m \\
& *n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7* \\
& m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 36 \\
& 3*B*a*b^{**2}*c^{**2}*n^{**2}*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m \\
& **5*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}* \\
& n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n \\
& + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n \\
& **2 + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940* \\
& m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 73 \\
& 5*n^{**3} + 175*n^{**2} + 21*n + 1) + 54*B*a*b^{**2}*c^{**2}*n*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**} \\
& 7 + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n* \\
& *3 + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} \\
& + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} \\
& + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 352 \\
& 8*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**} \\
& 6 + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 3*B*a*b^{**2}*c* \\
& *2*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**} \\
& 5*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624 \\
& *m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764* \\
& m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + \\
& 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**} \\
& 2 + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} \\
& + 21*n + 1) + 6*B*a*b^{**2}*c*d*m^{**6}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7 \\
& *m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**} \\
& 2 + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} \\
& + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} \\
& + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m \\
& *n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1 \\
& 624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 102*B*a*b^{**2}*c*d*m^{**5}*n*x*x^{**}(\\
& 4*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21* \\
& m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**}
\end{aligned}$$

$$\begin{aligned}
& 4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 \\
& + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 \\
& + 720mn^6 + 3528mn^5 + 4872mn^4 + 2940mn^3 + 875mn^2 + 126m \\
& *n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + \\
& 1) + 36B^2c^2d^5x^4(e^x)^m / (m^7 + 21m^6n + 7m^6 + \\
& 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m \\
& *^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m \\
& **3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m \\
& **2n^2 + 315m^2n + 21m^2 + 720mn^6 + 3528mn^5 + 4872mn^4 + \\
& 2940mn^3 + 875mn^2 + 126mn + 7m + 720n^6 + 1764n^5 + 1624n^4 \\
& + 735n^3 + 175n^2 + 21n + 1) + 642B^2c^2d^4n^2x^4(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + \\
& 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2 \\
& 940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 48 \\
& 72m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720 \\
& *mn^6 + 3528mn^5 + 4872mn^4 + 2940mn^3 + 875mn^2 + 126mn + \\
& 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + \\
& 510B^2c^2d^4n^2x^4(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m \\
& *^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3 \\
& 3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2 \\
& 2n^2 + 315m^2n + 21m^2 + 720mn^6 + 3528mn^5 + 4872mn^4 + 29 \\
& 40mn^3 + 875mn^2 + 126mn + 7m + 720n^6 + 1764n^5 + 1624n^4 + \\
& 735n^3 + 175n^2 + 21n + 1) + 90B^2c^2d^4x^4(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m \\
& *^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3 \\
& n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2 \\
& n^2 + 315m^2n + 21m^2 + 720mn^6 + 3528mn^5 + 4872mn^4 + 2940m \\
& n^3 + 875mn^2 + 126mn + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735 \\
& n^3 + 175n^2 + 21n + 1) + 1842B^2c^2d^3n^3x^4(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m \\
& *^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n \\
& + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 \\
& + 315m^2n + 21m^2 + 720mn^6 + 3528mn^5 + 4872mn^4 + 2940m \\
& n^3 + 875mn^2 + 126mn + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735 \\
& n^3 + 175n^2 + 21n + 1) + 2568B^2c^2d^3n^2x^4(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m \\
& *^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3 \\
& n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2 \\
& n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720mn^6 + \\
& 3528mn^5 + 4872mn^4 + 2940mn^3 + 875mn^2 + 126mn + 7m + 720 \\
& n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 1020B^2c^2d^3n^3x^4(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m \\
& *^4n
\end{aligned}$$

$$\begin{aligned}
& + 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n \\
& + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2}n^{**} \\
& * 2 + 315m^{**2}n + 21m^{**2} + 720m^{*}n^{**6} + 3528m^{*}n^{**5} + 4872m^{*}n^{**4} + 2940m^{*} \\
& n^{**3} + 875m^{*}n^{**2} + 126m^{*}n + 7m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 735 \\
& n^{**3} + 175n^{**2} + 21n + 1) + 120B^{*}a^{*}b^{**2}c^{*}d^{*}m^{**3}x^{*}x^{**}(4n)(e^{*}x)^{**}m/(m \\
& **7 + 21m^{**6}n + 7m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**} \\
& n^{**3} + 875m^{**4}n^{**2} + 315m^{**4}n + 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**3}n^{**} \\
& * 3 + 1750m^{**3}n^{**2} + 420m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**} \\
& 4 + 4410m^{**2}n^{**3} + 1750m^{**2}n^{**2} + 315m^{**2}n + 21m^{**2} + 720m^{*}n^{**6} + 3 \\
& 528m^{*}n^{**5} + 4872m^{*}n^{**4} + 2940m^{*}n^{**3} + 875m^{*}n^{**2} + 126m^{*}n + 7m + 720n^{**} \\
& **6 + 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21n + 1) + 2376B^{*}a^{*}b^{*} \\
& **2c^{*}d^{*}m^{**2}n^{**4}x^{*}x^{**}(4n)(e^{*}x)^{**}m/(m^{**7} + 21m^{**6}n + 7m^{**6} + 175m^{**5}n^{**} \\
& n^{**2} + 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} + 875m^{**4}n^{**2} + 315m^{**4}n + \\
& 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n + 3 \\
& 5m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2}n^{**2} \\
& + 315m^{**2}n + 21m^{**2} + 720m^{*}n^{**6} + 3528m^{*}n^{**5} + 4872m^{*}n^{**4} + 2940m^{*}n^{**} \\
& * 3 + 875m^{*}n^{**2} + 126m^{*}n + 7m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 735n^{**} \\
& * 3 + 175n^{**2} + 21n + 1) + 5526B^{*}a^{*}b^{**2}c^{*}d^{*}m^{**2}n^{**3}x^{*}x^{**}(4n)(e^{*}x)^{**}m \\
& /(m^{**7} + 21m^{**6}n + 7m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n + 21m^{**5} + 735m^{**} \\
& * 4n^{**3} + 875m^{**4}n^{**2} + 315m^{**4}n + 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**3} \\
& n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**} \\
& n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2}n^{**2} + 315m^{**2}n + 21m^{**2} + 720m^{*}n^{**6} \\
& + 3528m^{*}n^{**5} + 4872m^{*}n^{**4} + 2940m^{*}n^{**3} + 875m^{*}n^{**2} + 126m^{*}n + 7m + 72 \\
& 0n^{**6} + 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21n + 1) + 3852B^{*}a^{*} \\
& b^{**2}c^{*}d^{*}m^{**2}n^{**2}x^{*}x^{**}(4n)(e^{*}x)^{**}m/(m^{**7} + 21m^{**6}n + 7m^{**6} + 175m^{**} \\
& * 5n^{**2} + 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} + 875m^{**4}n^{**2} + 315m^{**4}n \\
& + 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n \\
& + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2}n^{**} \\
& * 2 + 315m^{**2}n + 21m^{**2} + 720m^{*}n^{**6} + 3528m^{*}n^{**5} + 4872m^{*}n^{**4} + 2940m^{*} \\
& n^{**3} + 875m^{*}n^{**2} + 126m^{*}n + 7m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 735 \\
& n^{**3} + 175n^{**2} + 21n + 1) + 1020B^{*}a^{*}b^{**2}c^{*}d^{*}m^{**2}n^{*}x^{*}x^{**}(4n)(e^{*}x)^{**}m \\
& /(m^{**7} + 21m^{**6}n + 7m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n + 21m^{**5} + 735m^{**} \\
& * 4n^{**3} + 875m^{**4}n^{**2} + 315m^{**4}n + 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**3} \\
& n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**} \\
& n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2}n^{**2} + 315m^{**2}n + 21m^{**2} + 720m^{*}n^{**6} \\
& + 3528m^{*}n^{**5} + 4872m^{*}n^{**4} + 2940m^{*}n^{**3} + 875m^{*}n^{**2} + 126m^{*}n + 7m + 72 \\
& 0n^{**6} + 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21n + 1) + 90B^{*}a^{*}b^{*} \\
& **2c^{*}d^{*}m^{**2}x^{*}x^{**}(4n)(e^{*}x)^{**}m/(m^{**7} + 21m^{**6}n + 7m^{**6} + 175m^{**5}n^{**2} \\
& + 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} + 875m^{**4}n^{**2} + 315m^{**4}n + 35m^{**} \\
& **4 + 1624m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n + 35m^{**} \\
& * 3 + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2}n^{**2} + 31 \\
& 5m^{**2}n + 21m^{**2} + 720m^{*}n^{**6} + 3528m^{*}n^{**5} + 4872m^{*}n^{**4} + 2940m^{*}n^{**3} + \\
& 875m^{*}n^{**2} + 126m^{*}n + 7m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 735n^{**3} + \\
& 175n^{**2} + 21n + 1) + 1080B^{*}a^{*}b^{**2}c^{*}d^{*}m^{*}n^{**5}x^{*}x^{**}(4n)(e^{*}x)^{**}m/(m^{**7} \\
& + 21m^{**6}n + 7m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3}
\end{aligned}$$

$$\begin{aligned}
& + 875m^{*4}n^{*2} + 315m^{*4}n + 35m^{*4} + 1624m^{*3}n^{*4} + 2940m^{*3}n^{*3} + \\
& 1750m^{*3}n^{*2} + 420m^{*3}n + 35m^{*3} + 1764m^{*2}n^{*5} + 4872m^{*2}n^{*4} + \\
& 4410m^{*2}n^{*3} + 1750m^{*2}n^{*2} + 315m^{*2}n + 21m^{*2} + 720m^{*n}n^{*6} + 3528m^{*n}n^{*5} + \\
& 4872m^{*n}n^{*4} + 2940m^{*n}n^{*3} + 875m^{*n}n^{*2} + 126m^{*n} + 7m + 720n^{*6} + \\
& 1764n^{*5} + 1624n^{*4} + 735n^{*3} + 175n^{*2} + 21n + 1) + 4752B^*a^*b^{*2}c^* \\
& *d^*m^{*n}n^{*4}x^*x^{*}(4n)^*(e^*x)^{**}/(m^{*7} + 21m^{*6}n + 7m^{*6} + 175m^{*5}n^{*2} + \\
& 126m^{*5}n + 21m^{*5} + 735m^{*4}n^{*3} + 875m^{*4}n^{*2} + 315m^{*4}n + 35m^{*4} \\
& + 1624m^{*3}n^{*4} + 2940m^{*3}n^{*3} + 1750m^{*3}n^{*2} + 420m^{*3}n + 35m^{*3} \\
& + 1764m^{*2}n^{*5} + 4872m^{*2}n^{*4} + 4410m^{*2}n^{*3} + 1750m^{*2}n^{*2} + 315m^{*2}n \\
& + 21m^{*2} + 720m^{*n}n^{*6} + 3528m^{*n}n^{*5} + 4872m^{*n}n^{*4} + 2940m^{*n}n^{*3} + 87 \\
& 5m^{*n}n^{*2} + 126m^{*n} + 7m + 720n^{*6} + 1764n^{*5} + 1624n^{*4} + 735n^{*3} + 17 \\
& 5n^{*2} + 21n + 1) + 5526B^*a^*b^{*2}c^*d^*m^{*n}n^{*3}x^*x^{*}(4n)^*(e^*x)^{**}/(m^{*7} + 2 \\
& 1m^{*6}n + 7m^{*6} + 175m^{*5}n^{*2} + 126m^{*5}n + 21m^{*5} + 735m^{*4}n^{*3} + \\
& 875m^{*4}n^{*2} + 315m^{*4}n + 35m^{*4} + 1624m^{*3}n^{*4} + 2940m^{*3}n^{*3} + 17 \\
& 50m^{*3}n^{*2} + 420m^{*3}n + 35m^{*3} + 1764m^{*2}n^{*5} + 4872m^{*2}n^{*4} + 441 \\
& 0m^{*2}n^{*3} + 1750m^{*2}n^{*2} + 315m^{*2}n + 21m^{*2} + 720m^{*n}n^{*6} + 3528m^{*n} \\
& n^{*5} + 4872m^{*n}n^{*4} + 2940m^{*n}n^{*3} + 875m^{*n}n^{*2} + 126m^{*n} + 7m + 720n^{*6} + 1 \\
& 764n^{*5} + 1624n^{*4} + 735n^{*3} + 175n^{*2} + 21n + 1) + 2568B^*a^*b^{*2}c^*d^* \\
& m^{*n}n^{*2}x^*x^{*}(4n)^*(e^*x)^{**}/(m^{*7} + 21m^{*6}n + 7m^{*6} + 175m^{*5}n^{*2} + 126 \\
& m^{*5}n + 21m^{*5} + 735m^{*4}n^{*3} + 875m^{*4}n^{*2} + 315m^{*4}n + 35m^{*4} + \\
& 1624m^{*3}n^{*4} + 2940m^{*3}n^{*3} + 1750m^{*3}n^{*2} + 420m^{*3}n + 35m^{*3} + 1 \\
& 764m^{*2}n^{*5} + 4872m^{*2}n^{*4} + 4410m^{*2}n^{*3} + 1750m^{*2}n^{*2} + 315m^{*2} \\
& n + 21m^{*2} + 720m^{*n}n^{*6} + 3528m^{*n}n^{*5} + 4872m^{*n}n^{*4} + 2940m^{*n}n^{*3} + 875m^{*n} \\
& n^{*2} + 126m^{*n} + 7m + 720n^{*6} + 1764n^{*5} + 1624n^{*4} + 735n^{*3} + 175n^{*2} \\
& + 21n + 1) + 510B^*a^*b^{*2}c^*d^*m^{*n}n^{*4}x^*x^{*}(4n)^*(e^*x)^{**}/(m^{*7} + 21m^{*6}n \\
& + 7m^{*6} + 175m^{*5}n^{*2} + 126m^{*5}n + 21m^{*5} + 735m^{*4}n^{*3} + 875m^{*4}n^{*2} \\
& + 315m^{*4}n + 35m^{*4} + 1624m^{*3}n^{*4} + 2940m^{*3}n^{*3} + 1750m^{*3} \\
& n^{*2} + 420m^{*3}n + 35m^{*3} + 1764m^{*2}n^{*5} + 4872m^{*2}n^{*4} + 4410m^{*2}n^{*3} \\
& + 1750m^{*2}n^{*2} + 315m^{*2}n + 21m^{*2} + 720m^{*n}n^{*6} + 3528m^{*n}n^{*5} + 4 \\
& 872m^{*n}n^{*4} + 2940m^{*n}n^{*3} + 875m^{*n}n^{*2} + 126m^{*n} + 7m + 720n^{*6} + 1764n^{*5} \\
& + 1624n^{*4} + 735n^{*3} + 175n^{*2} + 21n + 1) + 36B^*a^*b^{*2}c^*d^*m^{*n}n^{*4}x^*x^{*}(4 \\
& n)^*(e^*x)^{**}/(m^{*7} + 21m^{*6}n + 7m^{*6} + 175m^{*5}n^{*2} + 126m^{*5}n + 21m^{*5} \\
& + 735m^{*4}n^{*3} + 875m^{*4}n^{*2} + 315m^{*4}n + 35m^{*4} + 1624m^{*3}n^{*4} \\
& + 2940m^{*3}n^{*3} + 1750m^{*3}n^{*2} + 420m^{*3}n + 35m^{*3} + 1764m^{*2}n^{*5} \\
& + 4872m^{*2}n^{*4} + 4410m^{*2}n^{*3} + 1750m^{*2}n^{*2} + 315m^{*2}n + 21m^{*2} + \\
& 720m^{*n}n^{*6} + 3528m^{*n}n^{*5} + 4872m^{*n}n^{*4} + 2940m^{*n}n^{*3} + 875m^{*n}n^{*2} + 126m^{*n} \\
& + 7m + 720n^{*6} + 1764n^{*5} + 1624n^{*4} + 735n^{*3} + 175n^{*2} + 21n + 1) \\
& + 1080B^*a^*b^{*2}c^*d^*m^{*n}n^{*5}x^*x^{*}(4n)^*(e^*x)^{**}/(m^{*7} + 21m^{*6}n + 7m^{*6} + \\
& 175m^{*5}n^{*2} + 126m^{*5}n + 21m^{*5} + 735m^{*4}n^{*3} + 875m^{*4}n^{*2} + 315 \\
& m^{*4}n + 35m^{*4} + 1624m^{*3}n^{*4} + 2940m^{*3}n^{*3} + 1750m^{*3}n^{*2} + 420m^{*3}n \\
& + 35m^{*3} + 1764m^{*2}n^{*5} + 4872m^{*2}n^{*4} + 4410m^{*2}n^{*3} + 1750m^{*2}n^{*2} \\
& + 315m^{*2}n + 21m^{*2} + 720m^{*n}n^{*6} + 3528m^{*n}n^{*5} + 4872m^{*n}n^{*4} + \\
& 2940m^{*n}n^{*3} + 875m^{*n}n^{*2} + 126m^{*n} + 7m + 720n^{*6} + 1764n^{*5} + 1624n^{*4} \\
& + 735n^{*3} + 175n^{*2} + 21n + 1) + 2376B^*a^*b^{*2}c^*d^*m^{*n}n^{*4}x^*x^{*}(4n)^*(e^* \\
& x)^{**}/(m^{*7} + 21m^{*6}n + 7m^{*6} + 175m^{*5}n^{*2} + 126m^{*5}n + 21m^{*5} + 7
\end{aligned}$$

$35m^{4n^3} + 875m^{4n^2} + 315m^{4n} + 35m^{4} + 1624m^{3n^4} + 2940m^{3n^3} + 1750m^{3n^2} + 420m^{3n} + 35m^{3} + 1764m^{2n^5} + 4872m^{2n^4} + 4410m^{2n^3} + 1750m^{2n^2} + 315m^{2n} + 21m^{2} + 720m^{n^6} + 3528m^{n^5} + 4872m^{n^4} + 2940m^{n^3} + 875m^{n^2} + 126m^{n} + 7m + 720n^{n^6} + 1764n^{n^5} + 1624n^{n^4} + 735n^{n^3} + 175n^{n^2} + 21n + 1) + 1842B^*a^*b^{**2}*c^*d^{n^{**3}}*x^{**4n}*(e^*x)^{**m}/(m^{**7} + 21m^{**6n} + 7m^{**6} + 175m^{**5n^{**2}} + 126m^{**5n} + 21m^{**5} + 735m^{**4n^{**3}} + 875m^{**4n^{**2}} + 315m^{**4n} + 35m^{**4} + 1624m^{**3n^{**4}} + 2940m^{**3n^{**3}} + 1750m^{**3n^{**2}} + 420m^{**3n} + 35m^{**3} + 1764m^{**2n^{**5}} + 4872m^{**2n^{**4}} + 4410m^{**2n^{**3}} + 1750m^{**2n^{**2}} + 315m^{**2n} + 21m^{**2} + 720m^{n^{**6}} + 3528m^{n^{**5}} + 4872m^{n^{**4}} + 2940m^{n^{**3}} + 875m^{n^{**2}} + 126m^{n} + 7m + 720n^{n^{**6}} + 1764n^{n^{**5}} + 1624n^{n^{**4}} + 735n^{n^{**3}} + 175n^{n^{**2}} + 21n + 1) + 642B^*a^*b^{**2}*c^*d^{n^{**2}}*x^{**4n}*(e^*x)^{**m}/(m^{**7} + 21m^{**6n} + 7m^{**6} + 175m^{**5n^{**2}} + 126m^{**5n} + 21m^{**5} + 735m^{**4n^{**3}} + 875m^{**4n^{**2}} + 315m^{**4n} + 35m^{**4} + 1624m^{**3n^{**4}} + 2940m^{**3n^{**3}} + 1750m^{**3n^{**2}} + 420m^{**3n} + 35m^{**3} + 1764m^{**2n^{**5}} + 4872m^{**2n^{**4}} + 4410m^{**2n^{**3}} + 1750m^{**2n^{**2}} + 315m^{**2n} + 21m^{**2} + 720m^{n^{**6}} + 3528m^{n^{**5}} + 4872m^{n^{**4}} + 2940m^{n^{**3}} + 875m^{n^{**2}} + 126m^{n} + 7m + 720n^{n^{**6}} + 1764n^{n^{**5}} + 1624n^{n^{**4}} + 735n^{n^{**3}} + 175n^{n^{**2}} + 21n + 1) + 102B^*a^*b^{**2}*c^*d^{n^{**2}}*x^{**4n}*(e^*x)^{**m}/(m^{**7} + 21m^{**6n} + 7m^{**6} + 175m^{**5n^{**2}} + 126m^{**5n} + 21m^{**5} + 735m^{**4n^{**3}} + 875m^{**4n^{**2}} + 315m^{**4n} + 35m^{**4} + 1624m^{**3n^{**4}} + 2940m^{**3n^{**3}} + 1750m^{**3n^{**2}} + 420m^{**3n} + 35m^{**3} + 1764m^{**2n^{**5}} + 4872m^{**2n^{**4}} + 4410m^{**2n^{**3}} + 1750m^{**2n^{**2}} + 315m^{**2n} + 21m^{**2} + 720m^{n^{**6}} + 3528m^{n^{**5}} + 4872m^{n^{**4}} + 2940m^{n^{**3}} + 875m^{n^{**2}} + 126m^{n} + 7m + 720n^{n^{**6}} + 1764n^{n^{**5}} + 1624n^{n^{**4}} + 735n^{n^{**3}} + 175n^{n^{**2}} + 21n + 1) + 6B^*a^*b^{**2}*c^*d^{n^{**2}}*x^{**4n}*(e^*x)^{**m}/(m^{**7} + 21m^{**6n} + 7m^{**6} + 175m^{**5n^{**2}} + 126m^{**5n} + 21m^{**5} + 735m^{**4n^{**3}} + 875m^{**4n^{**2}} + 315m^{**4n} + 35m^{**4} + 1624m^{**3n^{**4}} + 2940m^{**3n^{**3}} + 1750m^{**3n^{**2}} + 420m^{**3n} + 35m^{**3} + 1764m^{**2n^{**5}} + 4872m^{**2n^{**4}} + 4410m^{**2n^{**3}} + 1750m^{**2n^{**2}} + 315m^{**2n} + 21m^{**2} + 720m^{n^{**6}} + 3528m^{n^{**5}} + 4872m^{n^{**4}} + 2940m^{n^{**3}} + 875m^{n^{**2}} + 126m^{n} + 7m + 720n^{n^{**6}} + 1764n^{n^{**5}} + 1624n^{n^{**4}} + 735n^{n^{**3}} + 175n^{n^{**2}} + 21n + 1) + 3B^*a^*b^{**2}*d^{**2m^{**6}}*x^{**5n}*(e^*x)^{**m}/(m^{**7} + 21m^{**6n} + 7m^{**6} + 175m^{**5n^{**2}} + 126m^{**5n} + 21m^{**5} + 735m^{**4n^{**3}} + 875m^{**4n^{**2}} + 315m^{**4n} + 35m^{**4} + 1624m^{**3n^{**4}} + 2940m^{**3n^{**3}} + 1750m^{**3n^{**2}} + 420m^{**3n} + 35m^{**3} + 1764m^{**2n^{**5}} + 4872m^{**2n^{**4}} + 4410m^{**2n^{**3}} + 1750m^{**2n^{**2}} + 315m^{**2n} + 21m^{**2} + 720m^{n^{**6}} + 3528m^{n^{**5}} + 4872m^{n^{**4}} + 2940m^{n^{**3}} + 875m^{n^{**2}} + 126m^{n} + 7m + 720n^{n^{**6}} + 1764n^{n^{**5}} + 1624n^{n^{**4}} + 735n^{n^{**3}} + 175n^{n^{**2}} + 21n + 1) + 48B^*a^*b^{**2}*d^{**2m^{**5}}*x^{**5n}*(e^*x)^{**m}/(m^{**7} + 21m^{**6n} + 7m^{**6} + 175m^{**5n^{**2}} + 126m^{**5n} + 21m^{**5} + 735m^{**4n^{**3}} + 875m^{**4n^{**2}} + 315m^{**4n} + 35m^{**4} + 1624m^{**3n^{**4}} + 2940m^{**3n^{**3}} + 1750m^{**3n^{**2}} + 420m^{**3n} + 35m^{**3} + 1764m^{**2n^{**5}} + 4872m^{**2n^{**4}} + 4410m^{**2n^{**3}} + 1750m^{**2n^{**2}} + 315m^{**2n} + 21m^{**2} + 720m^{n^{**6}} + 3528m^{n^{**5}} + 4872m^{n^{**4}} + 2940m^{n^{**3}} + 875m^{n^{**2}} + 126m^{n} + 7m + 720n^{n^{**6}} + 1764n^{n^{**5}} + 1624n^{n^{**4}} + 735n^{n^{**3}} + 175n^{n^{**2}} + 21n + 1) + 18B^*a^*b^{**2}*d^{**2m^{**5}}*x^{**5n}*(e^*x)^{**m}/(m^{**7} + 21m^{**6n} + 7m^{**6} + 175m^{**5n^{**2}} + 126m^{**5n} + 21m^{**5} + 735$

$$\begin{aligned}
& *m^{**4}n^{**3} + 875*m^{**4}n^{**2} + 315*m^{**4}n + 35*m^{**4} + 1624*m^{**3}n^{**4} + 2940*m^{**3}n^{**3} + 1750*m^{**3}n^{**2} + 420*m^{**3}n + 35*m^{**3} + 1764*m^{**2}n^{**5} + 4872*m^{**2}n^{**4} + 4410*m^{**2}n^{**3} + 1750*m^{**2}n^{**2} + 315*m^{**2}n + 21*m^{**2} + 720*m^{**1}n^{**6} + 3528*m^{**1}n^{**5} + 4872*m^{**1}n^{**4} + 2940*m^{**1}n^{**3} + 875*m^{**1}n^{**2} + 126*m^{**1}n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 285*B \\
& *a*b^{**2}d^{**2}m^{**4}n^{**2}x*x^{**5}n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}n + 7*m^{**6} + 175 \\
& *m^{**5}n^{**2} + 126*m^{**5}n + 21*m^{**5} + 735*m^{**4}n^{**3} + 875*m^{**4}n^{**2} + 315*m^{**4} \\
& *n + 35*m^{**4} + 1624*m^{**3}n^{**4} + 2940*m^{**3}n^{**3} + 1750*m^{**3}n^{**2} + 420*m^{**3} \\
& *n + 35*m^{**3} + 1764*m^{**2}n^{**5} + 4872*m^{**2}n^{**4} + 4410*m^{**2}n^{**3} + 1750*m^{**2} \\
& *n^{**2} + 315*m^{**2}n + 21*m^{**2} + 720*m^{**1}n^{**6} + 3528*m^{**1}n^{**5} + 4872*m^{**1}n^{**4} + 294 \\
& 0*m^{**1}n^{**3} + 875*m^{**1}n^{**2} + 126*m^{**1}n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + \\
& 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 240*B*a*b^{**2}d^{**2}m^{**4}n*x*x^{**5}n)*(e*x) \\
& ^{**m}/(m^{**7} + 21*m^{**6}n + 7*m^{**6} + 175*m^{**5}n^{**2} + 126*m^{**5}n + 21*m^{**5} + 735 \\
& *m^{**4}n^{**3} + 875*m^{**4}n^{**2} + 315*m^{**4}n + 35*m^{**4} + 1624*m^{**3}n^{**4} + 2940*m^{**3}n^{**3} + 1750*m^{**3}n^{**2} + 420*m^{**3} \\
& *n + 35*m^{**3} + 1764*m^{**2}n^{**5} + 4872*m^{**2}n^{**4} + 4410*m^{**2}n^{**3} + 1750*m^{**2}n^{**2} \\
& + 315*m^{**2}n + 21*m^{**2} + 720*m^{**1}n^{**6} + 3528*m^{**1}n^{**5} + 4872*m^{**1}n^{**4} + 2940*m^{**1}n^{**3} + 875*m^{**1}n^{**2} + 126*m^{**1}n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 45*B \\
& a*b^{**2}d^{**2}m^{**4}x*x^{**5}n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}n + 7*m^{**6} + 175*m^{**5}n^{**2} + 126*m^{**5}n + 21*m^{**5} + 735 \\
& *m^{**4}n^{**3} + 875*m^{**4}n^{**2} + 315*m^{**4}n + 35*m^{**4} + 1624*m^{**3}n^{**4} + 2940*m^{**3}n^{**3} + 1750*m^{**3}n^{**2} + 420*m^{**3}n + 3 \\
& 5*m^{**3} + 1764*m^{**2}n^{**5} + 4872*m^{**2}n^{**4} + 4410*m^{**2}n^{**3} + 1750*m^{**2}n^{**2} \\
& + 315*m^{**2}n + 21*m^{**2} + 720*m^{**1}n^{**6} + 3528*m^{**1}n^{**5} + 4872*m^{**1}n^{**4} + 2940*m^{**1}n^{**3} + 875*m^{**1}n^{**2} + 126*m^{**1}n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 780*B*a*b^{**2}d^{**2}m^{**3}n^{**3}x*x^{**5}n)*(e*x)^{**m} \\
& / (m^{**7} + 21*m^{**6}n + 7*m^{**6} + 175*m^{**5}n^{**2} + 126*m^{**5}n + 21*m^{**5} + 735*m^{**4}n^{**3} + 875*m^{**4}n^{**2} + 315*m^{**4}n + 35*m^{**4} + 1624*m^{**3}n^{**4} + 2940*m^{**3} \\
& *n^{**3} + 1750*m^{**3}n^{**2} + 420*m^{**3}n + 35*m^{**3} + 1764*m^{**2}n^{**5} + 4872*m^{**2}n^{**4} + 4410*m^{**2}n^{**3} + 1750*m^{**2}n^{**2} + 315*m^{**2}n + 21*m^{**2} + 720*m^{**1}n^{**6} \\
& + 3528*m^{**1}n^{**5} + 4872*m^{**1}n^{**4} + 2940*m^{**1}n^{**3} + 875*m^{**1}n^{**2} + 126*m^{**1}n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 1140*B*a \\
& *b^{**2}d^{**2}m^{**3}n^{**2}x*x^{**5}n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}n + 7*m^{**6} + 175*m^{**5}n^{**2} + 126*m^{**5}n + 21*m^{**5} + 735*m^{**4}n^{**3} + 875*m^{**4}n^{**2} + 315*m^{**4}n \\
& + 35*m^{**4} + 1624*m^{**3}n^{**4} + 2940*m^{**3}n^{**3} + 1750*m^{**3}n^{**2} + 420*m^{**3}n \\
& + 35*m^{**3} + 1764*m^{**2}n^{**5} + 4872*m^{**2}n^{**4} + 4410*m^{**2}n^{**3} + 1750*m^{**2}n^{**2} \\
& **2 + 315*m^{**2}n + 21*m^{**2} + 720*m^{**1}n^{**6} + 3528*m^{**1}n^{**5} + 4872*m^{**1}n^{**4} + 2940* \\
& m^{**1}n^{**3} + 875*m^{**1}n^{**2} + 126*m^{**1}n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 73 \\
& 5*n^{**3} + 175*n^{**2} + 21*n + 1) + 480*B*a*b^{**2}d^{**2}m^{**3}n*x*x^{**5}n)*(e*x)^{**m} \\
& / (m^{**7} + 21*m^{**6}n + 7*m^{**6} + 175*m^{**5}n^{**2} + 126*m^{**5}n + 21*m^{**5} + 735*m^{**4}n^{**3} + 875*m^{**4}n^{**2} + 315*m^{**4}n + 35*m^{**4} + 1624*m^{**3}n^{**4} + 2940*m^{**3} \\
& *n^{**3} + 1750*m^{**3}n^{**2} + 420*m^{**3}n + 35*m^{**3} + 1764*m^{**2}n^{**5} + 4872*m^{**2}n^{**4} + 4410*m^{**2}n^{**3} + 1750*m^{**2}n^{**2} + 315*m^{**2}n + 21*m^{**2} + 720*m^{**1}n^{**6} \\
& + 3528*m^{**1}n^{**5} + 4872*m^{**1}n^{**4} + 2940*m^{**1}n^{**3} + 875*m^{**1}n^{**2} + 126*m^{**1}n + 7*m + 7 \\
& 20*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 60*B*a*b \\
& ^{**2}d^{**2}m^{**3}x*x^{**5}n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}n + 7*m^{**6} + 175*m^{**5}n^{**2}
\end{aligned}$$

$$\begin{aligned}
& *2 + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35 \\
& *m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35* \\
& m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + \\
& 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} \\
& + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} \\
& + 175*n^{**2} + 21*n + 1) + 972*B*a*b^{**2}*d^{**2}*m^{**2}*n^{**4}*x*x^{**}(5*n)*(e*x)**m/(\\
& m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4} \\
& *n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n \\
& **3 + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n* \\
& *4 + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + \\
& 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720* \\
& n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 2340*B*a*b \\
& **2*d^{**2}*m^{**2}*n^{**3}*x*x^{**}(5*n)*(e*x)**m/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{** \\
& 5*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n \\
& + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + \\
& 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{** \\
& 2 + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m* \\
& n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735* \\
& n^{**3} + 175*n^{**2} + 21*n + 1) + 1710*B*a*b^{**2}*d^{**2}*m^{**2}*n^{**2}*x*x^{**}(5*n)*(e*x) \\
& **m/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735 \\
& *m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m \\
& **3*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m* \\
& *2*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n* \\
& *6 + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + \\
& 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 480*B \\
& *a*b^{**2}*d^{**2}*m^{**2}*n*x*x^{**}(5*n)*(e*x)**m/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m* \\
& *5*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n \\
& + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n \\
& + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n* \\
& *2 + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m \\
& *n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735 \\
& *n^{**3} + 175*n^{**2} + 21*n + 1) + 45*B*a*b^{**2}*d^{**2}*m^{**2}*x*x^{**}(5*n)*(e*x)**m/(m \\
& **7 + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}* \\
& n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n \\
& *3 + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n* \\
& *4 + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3 \\
& 528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n \\
& **6 + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 432*B*a*b^{** \\
& 2}*d^{**2}*m*n^{**5}*x*x^{**}(5*n)*(e*x)**m/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n \\
& **2 + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35* \\
& m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m \\
& **3 + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 3 \\
& 15*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} \\
& + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} \\
& + 175*n^{**2} + 21*n + 1) + 1944*B*a*b^{**2}*d^{**2}*m*n^{**4}*x*x^{**}(5*n)*(e*x)**m/(m^{**
\end{aligned}$$

$$\begin{aligned}
& 7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n* \\
& *3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 \\
& + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 \\
& + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 352 \\
& 8*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n** \\
& 6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 2340*B*a*b**2 \\
& *d**2*m*n**3*x*x**(5*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 \\
& + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m \\
& **4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m* \\
& *3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 31 \\
& 5*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + \\
& 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + \\
& 175*n**2 + 21*n + 1) + 1140*B*a*b**2*d**2*m*n**2*x*x**(5*n)*(e*x)**m/(m**7 \\
& + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n** \\
& 3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 \\
& + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + \\
& 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528 \\
& *m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 \\
& + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 240*B*a*b**2*d \\
& **2*m*n*x*x**(5*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 12 \\
& 6*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + \\
& 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + \\
& 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m** \\
& 2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875* \\
& m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175* \\
& n**2 + 21*n + 1) + 18*B*a*b**2*d**2*m*x*x**(5*n)*(e*x)**m/(m**7 + 21*m**6*n \\
& + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4 \\
& *n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3* \\
& n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n \\
& **3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 48 \\
& 72*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 \\
& + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 432*B*a*b**2*d**2*n**5*x*x \\
& *(5*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + \\
& 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3* \\
& n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n \\
& **5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m* \\
& *2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 12 \\
& 6*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n \\
& + 1) + 972*B*a*b**2*d**2*n**4*x*x**(5*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m* \\
& *6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + \\
& 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + \\
& 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1 \\
& 750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n* \\
& *4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624 \\
& *n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 780*B*a*b**2*d**2*n**3*x*x**(5*n)
\end{aligned}$$

$$\begin{aligned}
& *(e^x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 \\
& + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + \\
& 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4 \\
& 872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 72 \\
& 0*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + \\
& 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + \\
& 285*B*a*b**2*d**2*n**2*x*x**(5*n)*(e^x)**m/(m**7 + 21*m**6*n + 7*m**6 + 17 \\
& 5*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m* \\
& **4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m** \\
& 3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m** \\
& 2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 29 \\
& 40*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + \\
& 735*n**3 + 175*n**2 + 21*n + 1) + 48*B*a*b**2*d**2*n*x*x**(5*n)*(e^x)**m/(\\
& m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4 \\
& *n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n \\
& **3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n* \\
& **4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + \\
& 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720* \\
& n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 3*B*a*b**2 \\
& *d**2*x*x**(5*n)*(e^x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126* \\
& m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1 \\
& 624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 17 \\
& 64*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2* \\
& n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m* \\
& n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n* \\
& **2 + 21*n + 1) + B*b**3*c**2*m**6*x*x**(4*n)*(e^x)**m/(m**7 + 21*m**6*n + 7 \\
& *m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n** \\
& 2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 \\
& + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 \\
& + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m \\
& *n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1 \\
& 624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 17*B*b**3*c**2*m**5*n*x*x**(4* \\
& n)*(e^x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m* \\
& **5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 \\
& + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + \\
& 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + \\
& 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n \\
& + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) \\
& + 6*B*b**3*c**2*m**5*x*x**(4*n)*(e^x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175* \\
& m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4 \\
& *n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3* \\
& n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2* \\
& n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940 \\
& *m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 7 \\
& 35*n**3 + 175*n**2 + 21*n + 1) + 107*B*b**3*c**2*m**4*n**2*x*x**(4*n)*(e^x)
\end{aligned}$$

$$\begin{aligned}
& **m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735 \\
& *m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m \\
& **3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m* \\
& *2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n* \\
& *6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + \\
& 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 85*B \\
& b**3*c**2*m**4*n*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5* \\
& n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + \\
& 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 3 \\
& 5*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 \\
& + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n* \\
& *3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n* \\
& *3 + 175*n**2 + 21*n + 1) + 15*B*b**3*c**2*m**4*x*x**(4*n)*(e*x)**m/(m**7 + \\
& 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 \\
& + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + \\
& 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4 \\
& 410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m \\
& *n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + \\
& 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 307*B*b**3*c**2* \\
& m**3*n**3*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + \\
& 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 \\
& + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 \\
& + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m \\
& **2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 87 \\
& 5*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 17 \\
& 5*n**2 + 21*n + 1) + 428*B*b**3*c**2*m**3*n**2*x*x**(4*n)*(e*x)**m/(m**7 + \\
& 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + \\
& 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1 \\
& 750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 44 \\
& 10*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m* \\
& n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + \\
& 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 170*B*b**3*c**2*m \\
& **3*n*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126* \\
& m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1 \\
& 624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 17 \\
& 64*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2* \\
& n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m* \\
& n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n* \\
& *2 + 21*n + 1) + 20*B*b**3*c**2*m**3*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n \\
& + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4* \\
& n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n \\
& **2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n* \\
& *3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 487 \\
& 2*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 \\
& + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 396*B*b**3*c**2*m**2*n**4*x
\end{aligned}$$

$$\begin{aligned}
& *x^{(4n)}(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n \\
& + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 \\
& + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 \\
& + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 \\
& + 720mn^6 + 3528mn^5 + 4872mn^4 + 2940mn^3 + 875mn^2 + \\
& 126mn + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21 \\
& n + 1) + 921B^3c^2m^2n^3x^{(4n)}(e^x)^m / (m^7 + 21m^6n + \\
& 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 \\
& + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 \\
& + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 \\
& + 1750m^2n^2 + 315m^2n + 21m^2 + 720mn^6 + 3528mn^5 + 4872 \\
& mn^4 + 2940mn^3 + 875mn^2 + 126mn + 7m + 720n^6 + 1764n^5 + \\
& 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 642B^3c^2m^2n^2x^{(4n)} \\
& (e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + \\
& 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 \\
& + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 \\
& + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 \\
& + 720mn^6 + 3528mn^5 + 4872mn^4 + 2940mn^3 + 875mn^2 + 1 \\
& 26mn + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n \\
& + 1) + 170B^3c^2m^2n^2x^{(4n)}(e^x)^m / (m^7 + 21m^6n + 7m^6 \\
& + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 \\
& + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + \\
& 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + \\
& 1750m^2n^2 + 315m^2n + 21m^2 + 720mn^6 + 3528mn^5 + 4872mn^4 \\
& + 2940mn^3 + 875mn^2 + 126mn + 7m + 720n^6 + 1764n^5 + 162 \\
& 4n^4 + 735n^3 + 175n^2 + 21n + 1) + 15B^3c^2m^2x^{(4n)}(e^x)^m \\
& / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + \\
& 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 29 \\
& 40m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 487 \\
& 2m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m \\
& mn^6 + 3528mn^5 + 4872mn^4 + 2940mn^3 + 875mn^2 + 126mn + 7 \\
& m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 1 \\
& 80B^3c^2mn^5x^{(4n)}(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 \\
& + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n \\
& + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n \\
& + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 \\
& + 315m^2n + 21m^2 + 720mn^6 + 3528mn^5 + 4872mn^4 + 2940 \\
& mn^3 + 875mn^2 + 126mn + 7m + 720n^6 + 1764n^5 + 1624n^4 + 7 \\
& 35n^3 + 175n^2 + 21n + 1) + 792B^3c^2mn^4x^{(4n)}(e^x)^m \\
& / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 \\
& + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 \\
& + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 \\
& + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720mn^6 \\
& + 3528mn^5 + 4872mn^4 + 2940mn^3 + 875mn^2 + 126mn + 7m + 72 \\
& 0n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 921B^3b^
\end{aligned}$$

$$\begin{aligned}
& *3*c**2*m*n**3*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n* \\
& *2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35 \\
& *m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35* \\
& m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + \\
& 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 \\
& + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 \\
& + 175*n**2 + 21*n + 1) + 428*B*b**3*c**2*m*n**2*x*x**(4*n)*(e*x)**m/(m**7 \\
& + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 \\
& + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + \\
& 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + \\
& 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528* \\
& m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 \\
& + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 85*B*b**3*c**2* \\
& m*n*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m* \\
& *5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 162 \\
& 4*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764 \\
& *m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n \\
& + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n* \\
& *2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 \\
& + 21*n + 1) + 6*B*b**3*c**2*m*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m* \\
& *6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + \\
& 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + \\
& 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1 \\
& 750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n* \\
& *4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624 \\
& *n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 180*B*b**3*c**2*n**5*x*x**(4*n)*(\\
& e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + \\
& 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 29 \\
& 40*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 487 \\
& 2*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720* \\
& m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7 \\
& *m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 3 \\
& 96*B*b**3*c**2*n**4*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m* \\
& *5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n \\
& + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n \\
& + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n* \\
& *2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m \\
& *n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735 \\
& *n**3 + 175*n**2 + 21*n + 1) + 307*B*b**3*c**2*n**3*x*x**(4*n)*(e*x)**m/(m \\
& *7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n \\
& **3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n** \\
& 3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 \\
& + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 35 \\
& 28*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n* \\
& *6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 107*B*b**3*c
\end{aligned}$$

$$\begin{aligned}
& **2*n**2*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 1 \\
& 26*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 \\
& + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + \\
& 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m* \\
& *2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875 \\
& *m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175 \\
& *n**2 + 21*n + 1) + 17*B*b**3*c**2*n*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n \\
& + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n \\
& **2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n \\
& **2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n* \\
& *3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 487 \\
& 2*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 \\
& + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + B*b**3*c**2*x*x**(4*n)*(e*x \\
&)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 73 \\
& 5*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940* \\
& m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m \\
& **2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n \\
& **6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m \\
& + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 2*B* \\
& b**3*c*d*m**6*x*x**(5*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n** \\
& 2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35* \\
& m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m \\
& **3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 3 \\
& 15*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 \\
& + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 \\
& + 175*n**2 + 21*n + 1) + 32*B*b**3*c*d*m**5*n*x*x**(5*n)*(e*x)**m/(m**7 + 2 \\
& 1*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + \\
& 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 17 \\
& 50*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 441 \\
& 0*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n \\
& **5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1 \\
& 764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 12*B*b**3*c*d*m**5 \\
& *x*x**(5*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n \\
& + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m \\
& **3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m* \\
& **2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 2 \\
& 1*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 \\
& + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + \\
& 21*n + 1) + 190*B*b**3*c*d*m**4*n**2*x*x**(5*n)*(e*x)**m/(m**7 + 21*m**6*n \\
& + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n \\
& **2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n \\
& **2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n* \\
& *3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 487 \\
& 2*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 \\
& + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 160*B*b**3*c*d*m**4*n*x*x**
\end{aligned}$$

$$\begin{aligned}
& (5n)(e^x)^m / (m^7 + 21m^6n + 7m^5n^2 + 175m^4n^3 + 126m^3n^4 + 21m^2n^5 + 735m^2n^3 + 875m^2n^2 + 315m^2n + 35m^2 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) \\
& + 30B^3C^3D^4X^5(e^x)^m / (m^7 + 21m^6n + 7m^5n^2 + 175m^4n^3 + 126m^3n^4 + 21m^2n^5 + 735m^2n^3 + 875m^2n^2 + 315m^2n + 35m^2 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) \\
& + 520B^3C^3D^3X^5(e^x)^m / (m^7 + 21m^6n + 7m^5n^2 + 126m^3n^4 + 21m^2n^5 + 735m^2n^3 + 875m^2n^2 + 315m^2n + 35m^2 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) \\
& + 760B^3C^3D^3X^6(e^x)^m / (m^7 + 21m^6n + 7m^5n^2 + 175m^4n^3 + 126m^3n^4 + 21m^2n^5 + 735m^2n^3 + 875m^2n^2 + 315m^2n + 35m^2 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) \\
& + 320B^3C^3D^3X^5(e^x)^m / (m^7 + 21m^6n + 7m^5n^2 + 126m^3n^4 + 21m^2n^5 + 735m^2n^3 + 875m^2n^2 + 315m^2n + 35m^2 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) \\
& + 40B^3C^3D^3X^5(e^x)^m / (m^7 + 21m^6n + 7m^5n^2 + 126m^3n^4 + 21m^2n^5 + 735m^2n^3 + 875m^2n^2 + 315m^2n + 35m^2 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) \\
& + 648B^3C^3D^2X^5(e^x)^m / (m^7 + 21m^6n + 7m^5n^2 + 126m^3n^4 + 21m^2n^5 + 735m^2n^3 + 875m^2n^2 + 315m^2n + 35m^2 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) \\
& + 1560B^3C^3D^3X^5(e^x)^m / (m^7 + 21m^6n + 7m^5n^2 + 126m^3n^4 + 21m^2n^5 + 735m^2n^3 + 875m^2n^2 + 315m^2n + 35m^2 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1)
\end{aligned}$$

$$\begin{aligned}
& *2*n**3*x*x**(5*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 12 \\
& 6*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + \\
& 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + \\
& 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m** \\
& 2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875* \\
& m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175* \\
& n**2 + 21*n + 1) + 1140*B*b**3*c*d*m**2*n**2*x*x**(5*n)*(e*x)**m/(m**7 + 21 \\
& *m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 8 \\
& 75*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 175 \\
& 0*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410 \\
& *m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n* \\
& *5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 17 \\
& 64*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 320*B*b**3*c*d*m**2 \\
& *n*x*x**(5*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m** \\
& 5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624 \\
& *m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764* \\
& m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + \\
& 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n** \\
& 2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 \\
& + 21*n + 1) + 30*B*b**3*c*d*m**2*x*x**(5*n)*(e*x)**m/(m**7 + 21*m**6*n + 7* \\
& m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 \\
& + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 \\
& + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + \\
& 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m* \\
& n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 16 \\
& 24*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 288*B*b**3*c*d*m*n**5*x*x**(5*n \\
&)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m** \\
& 5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + \\
& 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + \\
& 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 7 \\
& 20*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n \\
& + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) \\
& + 1296*B*b**3*c*d*m*n**4*x*x**(5*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 1 \\
& 75*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m \\
& **4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m* \\
& *3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m* \\
& *2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2 \\
& 940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 \\
& + 735*n**3 + 175*n**2 + 21*n + 1) + 1560*B*b**3*c*d*m*n**3*x*x**(5*n)*(e*x) \\
& **m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735 \\
& *m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m \\
& **3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m* \\
& *2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n* \\
& *6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + \\
& 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 760*B
\end{aligned}$$

$$\begin{aligned}
& x^x(5^n)(e^x)^m / (m^7 + 21m^6n + 7m^5n^2 + 175m^4n^3 + 126m^3n^4 + 21m^2n^5 + 735m^2n^3 + 875m^2n^2 + 315m^2n + 35m^2 + 1624m^2n^3 + 2940m^2n^2 + 1750m^2n + 420m^2n + 35m^2 + 1764m^2n^2 + 4872m^2n + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 2B^3c^3d^3x^x(5^n)(e^x)^m / (m^7 + 21m^6n + 7m^5n^2 + 175m^4n^3 + 126m^3n^4 + 21m^2n^5 + 735m^2n^3 + 875m^2n^2 + 315m^2n + 35m^2 + 1624m^2n^3 + 2940m^2n^2 + 1750m^2n + 420m^2n + 35m^2 + 1764m^2n^2 + 4872m^2n + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + B^3d^2m^6x^x(6^n)(e^x)^m / (m^7 + 21m^6n + 7m^5n^2 + 175m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 15B^3d^2m^5n^x(6^n)(e^x)^m / (m^7 + 21m^6n + 7m^5n^2 + 175m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 6B^3d^2m^5x^x(6^n)(e^x)^m / (m^7 + 21m^6n + 7m^5n^2 + 175m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 85B^3d^2m^4n^x(6^n)(e^x)^m / (m^7 + 21m^6n + 7m^5n^2 + 175m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 75B^3d^2m^4n^x(6^n)(e^x)^m / (m^7 + 21m^6n + 7m^5n^2 + 175m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 15B^3d^2m^4x^x(6^n)
\end{aligned}$$

$$\begin{aligned}
&*(e^x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 \\
&+ 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + \\
&2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4 \\
&872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 72 \\
&0*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + \\
&7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + \\
&225*B*b**3*d**2*m**3*n**3*x*x*(6*n)*(e^x)**m/(m**7 + 21*m**6*n + 7*m**6 + \\
&175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315 \\
&m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420* \\
&m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750* \\
&m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + \\
&2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n** \\
&4 + 735*n**3 + 175*n**2 + 21*n + 1) + 340*B*b**3*d**2*m**3*n**2*x*x*(6*n)* \\
&(e^x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 \\
&+ 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2 \\
&940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 48 \\
&72*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720 \\
&>*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + \\
&7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + \\
&150*B*b**3*d**2*m**3*n*x*x*(6*n)*(e^x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175 \\
&*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m** \\
&4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3 \\
&*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2 \\
&>*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 294 \\
&0*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + \\
&735*n**3 + 175*n**2 + 21*n + 1) + 20*B*b**3*d**2*m**3*x*x*(6*n)*(e^x)**m/(\\
&m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4 \\
&*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n \\
&>**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n* \\
&>*4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + \\
&3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720* \\
&n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 274*B*b**3 \\
&*d**2*m**2*n**4*x*x*(6*n)*(e^x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n \\
&>**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 3 \\
&5*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35 \\
&m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + \\
&315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n** \\
&3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n** \\
&3 + 175*n**2 + 21*n + 1) + 675*B*b**3*d**2*m**2*n**3*x*x*(6*n)*(e^x)**m/(m \\
&>**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4* \\
&n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n* \\
&>*3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n** \\
&4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3 \\
&528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n \\
&>**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 510*B*b**3*
\end{aligned}$$

$$\begin{aligned}
& d^{**2}m^{**2}n^{**2}x^*x^{**}(6*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}n + 7*m^{**6} + 175*m^{**5}n^* \\
& *2 + 126*m^{**5}n + 21*m^{**5} + 735*m^{**4}n^{**3} + 875*m^{**4}n^{**2} + 315*m^{**4}n + 35 \\
& *m^{**4} + 1624*m^{**3}n^{**4} + 2940*m^{**3}n^{**3} + 1750*m^{**3}n^{**2} + 420*m^{**3}n + 35* \\
& m^{**3} + 1764*m^{**2}n^{**5} + 4872*m^{**2}n^{**4} + 4410*m^{**2}n^{**3} + 1750*m^{**2}n^{**2} + \\
& 315*m^{**2}n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} \\
& + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} \\
& + 175*n^{**2} + 21*n + 1) + 150*B*b^{**3}d^{**2}m^{**2}n^*x^*x^{**}(6*n)*(e*x)^{**m}/(m^{**7} \\
& + 21*m^{**6}n + 7*m^{**6} + 175*m^{**5}n^{**2} + 126*m^{**5}n + 21*m^{**5} + 735*m^{**4}n^{**3} \\
& + 875*m^{**4}n^{**2} + 315*m^{**4}n + 35*m^{**4} + 1624*m^{**3}n^{**4} + 2940*m^{**3}n^{**3} + \\
& 1750*m^{**3}n^{**2} + 420*m^{**3}n + 35*m^{**3} + 1764*m^{**2}n^{**5} + 4872*m^{**2}n^{**4} + \\
& 4410*m^{**2}n^{**3} + 1750*m^{**2}n^{**2} + 315*m^{**2}n + 21*m^{**2} + 720*m*n^{**6} + 3528* \\
& m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} \\
& + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 15*B*b^{**3}d^{**2}m^{**2}x^*x^*x^{**}(6*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}n + 7*m^{**6} + 175*m^{**5}n^{**2} + 126*m^{**5}n + 21*m^{**5} + 735*m^{**4}n^{**3} + 875*m^{**4}n^{**2} + 315*m^{**4}n + 35*m^{**4} + 1624*m^{**3}n^{**4} + 2940*m^{**3}n^{**3} + 1750*m^{**3}n^{**2} + 420*m^{**3}n + 35*m^{**3} + 1764*m^{**2}n^{**5} + 4872*m^{**2}n^{**4} + 4410*m^{**2}n^{**3} + 1750*m^{**2}n^{**2} + 315*m^{**2}n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 120*B*b^{**3}d^{**2}m*n^{**5}x^*x^*x^{**}(6*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}n + 7*m^{**6} + 175*m^{**5}n^{**2} + 126*m^{**5}n + 21*m^{**5} + 735*m^{**4}n^{**3} + 875*m^{**4}n^{**2} + 315*m^{**4}n + 35*m^{**4} + 1624*m^{**3}n^{**4} + 2940*m^{**3}n^{**3} + 1750*m^{**3}n^{**2} + 420*m^{**3}n + 35*m^{**3} + 1764*m^{**2}n^{**5} + 4872*m^{**2}n^{**4} + 4410*m^{**2}n^{**3} + 1750*m^{**2}n^{**2} + 315*m^{**2}n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 548*B*b^{**3}d^{**2}m*n^{**4}x^*x^*x^{**}(6*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}n + 7*m^{**6} + 175*m^{**5}n^{**2} + 126*m^{**5}n + 21*m^{**5} + 735*m^{**4}n^{**3} + 875*m^{**4}n^{**2} + 315*m^{**4}n + 35*m^{**4} + 1624*m^{**3}n^{**4} + 2940*m^{**3}n^{**3} + 1750*m^{**3}n^{**2} + 420*m^{**3}n + 35*m^{**3} + 1764*m^{**2}n^{**5} + 4872*m^{**2}n^{**4} + 4410*m^{**2}n^{**3} + 1750*m^{**2}n^{**2} + 315*m^{**2}n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 675*B*b^{**3}d^{**2}m*n^{**3}x^*x^*x^{**}(6*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}n + 7*m^{**6} + 175*m^{**5}n^{**2} + 126*m^{**5}n + 21*m^{**5} + 735*m^{**4}n^{**3} + 875*m^{**4}n^{**2} + 315*m^{**4}n + 35*m^{**4} + 1624*m^{**3}n^{**4} + 2940*m^{**3}n^{**3} + 1750*m^{**3}n^{**2} + 420*m^{**3}n + 35*m^{**3} + 1764*m^{**2}n^{**5} + 4872*m^{**2}n^{**4} + 4410*m^{**2}n^{**3} + 1750*m^{**2}n^{**2} + 315*m^{**2}n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 340*B*b^{**3}d^{**2}m*n^{**2}x^*x^*x^{**}(6*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}n + 7*m^{**6} + 175*m^{**5}n^{**2} + 126*m^{**5}n + 21*m^{**5} + 735*m^{**4}n^{**3} + 875*m^{**4}n^{**2} + 315*m^{**4}n + 35*m^{**4} + 1624*m^{**3}n^{**4} + 2940*m^{**3}n^{**3} + 1750*m^{**3}n^{**2} + 420*m^{**3}n + 35*m^{**3} + 1764*m^{**2}n^{**5} + 4872*m^{**2}n^{**4} + 4410*m^{**2}n^{**3} + 1750*m^{**2}n^{**2} + 315*m^{**2}n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1)
\end{aligned}$$


```

*x*x**(6*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*
n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m
**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m*
**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 2
1*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2
+ 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 +
21*n + 1), True))

```

Maxima [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 748 vs. 2(318) = 636.

Time = 0.28 (sec) , antiderivative size = 748, normalized size of antiderivative = 2.35

$$\begin{aligned}
& \int (ex)^m (a + bx^n)^3 (A + Bx^n) (c + dx^n)^2 dx \\
&= \frac{Bb^3 d^2 e^m x e^{(m \log(x) + 6n \log(x))}}{m + 6n + 1} + \frac{2 Bb^3 c d e^m x e^{(m \log(x) + 5n \log(x))}}{m + 5n + 1} \\
&+ \frac{3 Bab^2 d^2 e^m x e^{(m \log(x) + 5n \log(x))}}{m + 5n + 1} + \frac{Ab^3 d^2 e^m x e^{(m \log(x) + 5n \log(x))}}{m + 5n + 1} \\
&+ \frac{Bb^3 c^2 e^m x e^{(m \log(x) + 4n \log(x))}}{m + 4n + 1} + \frac{6 Bab^2 c d e^m x e^{(m \log(x) + 4n \log(x))}}{m + 4n + 1} \\
&+ \frac{2 Ab^3 c d e^m x e^{(m \log(x) + 4n \log(x))}}{m + 4n + 1} + \frac{3 Ba^2 b d^2 e^m x e^{(m \log(x) + 4n \log(x))}}{m + 4n + 1} \\
&+ \frac{3 Aab^2 d^2 e^m x e^{(m \log(x) + 4n \log(x))}}{m + 4n + 1} + \frac{3 Bab^2 c^2 e^m x e^{(m \log(x) + 3n \log(x))}}{m + 3n + 1} \\
&+ \frac{Ab^3 c^2 e^m x e^{(m \log(x) + 3n \log(x))}}{m + 3n + 1} + \frac{6 Ba^2 b c d e^m x e^{(m \log(x) + 3n \log(x))}}{m + 3n + 1} \\
&+ \frac{6 Aab^2 c d e^m x e^{(m \log(x) + 3n \log(x))}}{m + 3n + 1} + \frac{Ba^3 d^2 e^m x e^{(m \log(x) + 3n \log(x))}}{m + 3n + 1} \\
&+ \frac{3 Aa^2 b d^2 e^m x e^{(m \log(x) + 3n \log(x))}}{m + 3n + 1} + \frac{3 Ba^2 b c^2 e^m x e^{(m \log(x) + 2n \log(x))}}{m + 2n + 1} \\
&+ \frac{3 Aab^2 c^2 e^m x e^{(m \log(x) + 2n \log(x))}}{m + 2n + 1} + \frac{2 Ba^3 c d e^m x e^{(m \log(x) + 2n \log(x))}}{m + 2n + 1} \\
&+ \frac{6 Aa^2 b c d e^m x e^{(m \log(x) + 2n \log(x))}}{m + 2n + 1} + \frac{Aa^3 d^2 e^m x e^{(m \log(x) + 2n \log(x))}}{m + 2n + 1} \\
&+ \frac{Ba^3 c^2 e^m x e^{(m \log(x) + n \log(x))}}{m + n + 1} + \frac{3 Aa^2 b c^2 e^m x e^{(m \log(x) + n \log(x))}}{m + n + 1} \\
&+ \frac{2 Aa^3 c d e^m x e^{(m \log(x) + n \log(x))}}{m + n + 1} + \frac{(ex)^{m+1} Aa^3 c^2}{e(m+1)}
\end{aligned}$$

[In] integrate((e*x)^m*(a+b*x^n)^3*(A+B*x^n)*(c+d*x^n)^2,x, algorithm="maxima")

```
[Out] B*b^3*d^2*e^m*x*e^(m*log(x) + 6*n*log(x))/(m + 6*n + 1) + 2*B*b^3*c*d*e^m*x
*e^(m*log(x) + 5*n*log(x))/(m + 5*n + 1) + 3*B*a*b^2*d^2*e^m*x*e^(m*log(x)
+ 5*n*log(x))/(m + 5*n + 1) + A*b^3*d^2*e^m*x*e^(m*log(x) + 5*n*log(x))/(m
+ 5*n + 1) + B*b^3*c^2*e^m*x*e^(m*log(x) + 4*n*log(x))/(m + 4*n + 1) + 6*B*
a*b^2*c*d*e^m*x*e^(m*log(x) + 4*n*log(x))/(m + 4*n + 1) + 2*A*b^3*c*d*e^m*x
*e^(m*log(x) + 4*n*log(x))/(m + 4*n + 1) + 3*B*a^2*b*d^2*e^m*x*e^(m*log(x)
+ 4*n*log(x))/(m + 4*n + 1) + 3*A*a*b^2*d^2*e^m*x*e^(m*log(x) + 4*n*log(x))
/(m + 4*n + 1) + 3*B*a*b^2*c^2*e^m*x*e^(m*log(x) + 3*n*log(x))/(m + 3*n + 1
) + A*b^3*c^2*e^m*x*e^(m*log(x) + 3*n*log(x))/(m + 3*n + 1) + 6*B*a^2*b*c*d
*e^m*x*e^(m*log(x) + 3*n*log(x))/(m + 3*n + 1) + 6*A*a*b^2*c*d*e^m*x*e^(m*l
og(x) + 3*n*log(x))/(m + 3*n + 1) + B*a^3*d^2*e^m*x*e^(m*log(x) + 3*n*log(x
))/(m + 3*n + 1) + 3*A*a^2*b*d^2*e^m*x*e^(m*log(x) + 3*n*log(x))/(m + 3*n +
1) + 3*B*a^2*b*c^2*e^m*x*e^(m*log(x) + 2*n*log(x))/(m + 2*n + 1) + 3*A*a*b
^2*c^2*e^m*x*e^(m*log(x) + 2*n*log(x))/(m + 2*n + 1) + 2*B*a^3*c*d*e^m*x*e^
(m*log(x) + 2*n*log(x))/(m + 2*n + 1) + 6*A*a^2*b*c*d*e^m*x*e^(m*log(x) + 2
*n*log(x))/(m + 2*n + 1) + A*a^3*d^2*e^m*x*e^(m*log(x) + 2*n*log(x))/(m + 2
*n + 1) + B*a^3*c^2*e^m*x*e^(m*log(x) + n*log(x))/(m + n + 1) + 3*A*a^2*b*c
^2*e^m*x*e^(m*log(x) + n*log(x))/(m + n + 1) + 2*A*a^3*c*d*e^m*x*e^(m*log(x
) + n*log(x))/(m + n + 1) + (e*x)^(m + 1)*A*a^3*c^2/(e*(m + 1))
```

Giac [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 70422 vs. 2(318) = 636.

Time = 0.85 (sec) , antiderivative size = 70422, normalized size of antiderivative = 221.45

$$\int (ex)^m (a + bx^n)^3 (A + Bx^n) (c + dx^n)^2 dx = \text{Too large to display}$$

```
[In] integrate((e*x)^m*(a+b*x^n)^3*(A+B*x^n)*(c+d*x^n)^2,x, algorithm="giac")
```

```
[Out] (B*b^3*d^2*m^6*x*x^(6*n)*e^(m*log(e) + m*log(x)) + 15*B*b^3*d^2*m^5*n*x*x^(
6*n)*e^(m*log(e) + m*log(x)) + 85*B*b^3*d^2*m^4*n^2*x*x^(6*n)*e^(m*log(e) +
m*log(x)) + 225*B*b^3*d^2*m^3*n^3*x*x^(6*n)*e^(m*log(e) + m*log(x)) + 274*
B*b^3*d^2*m^2*n^4*x*x^(6*n)*e^(m*log(e) + m*log(x)) + 120*B*b^3*d^2*m*n^5*x
*x^(6*n)*e^(m*log(e) + m*log(x)) + 2*B*b^3*c*d*m^6*x*x^(5*n)*e^(m*log(e) +
m*log(x)) + 3*B*a*b^2*d^2*m^6*x*x^(5*n)*e^(m*log(e) + m*log(x)) + A*b^3*d^2
*m^6*x*x^(5*n)*e^(m*log(e) + m*log(x)) + B*b^3*d^2*m^6*x*x^(5*n)*e^(m*log(e
) + m*log(x)) + 32*B*b^3*c*d*m^5*n*x*x^(5*n)*e^(m*log(e) + m*log(x)) + 48*B
*a*b^2*d^2*m^5*n*x*x^(5*n)*e^(m*log(e) + m*log(x)) + 16*A*b^3*d^2*m^5*n*x*x
^(5*n)*e^(m*log(e) + m*log(x)) + 15*B*b^3*d^2*m^5*n*x*x^(5*n)*e^(m*log(e) +
m*log(x)) + 190*B*b^3*c*d*m^4*n^2*x*x^(5*n)*e^(m*log(e) + m*log(x)) + 285*
B*a*b^2*d^2*m^4*n^2*x*x^(5*n)*e^(m*log(e) + m*log(x)) + 95*A*b^3*d^2*m^4*n^
2*x*x^(5*n)*e^(m*log(e) + m*log(x)) + 85*B*b^3*d^2*m^4*n^2*x*x^(5*n)*e^(m'l
og(e) + m*log(x)) + 520*B*b^3*c*d*m^3*n^3*x*x^(5*n)*e^(m*log(e) + m*log(x))
+ 780*B*a*b^2*d^2*m^3*n^3*x*x^(5*n)*e^(m*log(e) + m*log(x)) + 260*A*b^3*d^
```

$$\begin{aligned}
& 2m^3n^3xx^{(5n)}e^{(m\log(e) + m\log(x))} + 225Bb^3d^2m^3n^3xx^{(5n)}e^{(m\log(e) + m\log(x))} + 648Bb^3cdm^2n^4xx^{(5n)}e^{(m\log(e) + m\log(x))} + 972Bab^2d^2m^2n^4xx^{(5n)}e^{(m\log(e) + m\log(x))} + 324 \\
& *Ab^3d^2m^2n^4xx^{(5n)}e^{(m\log(e) + m\log(x))} + 274Bb^3d^2m^2n^4xx^{(5n)}e^{(m\log(e) + m\log(x))} + 288Bb^3cdm^5n^5xx^{(5n)}e^{(m\log(e) + m\log(x))} + 432Bab^2d^2m^5n^5xx^{(5n)}e^{(m\log(e) + m\log(x))} \\
& + 144Ab^3d^2m^5n^5xx^{(5n)}e^{(m\log(e) + m\log(x))} + 120Bb^3d^2m^5n^5xx^{(5n)}e^{(m\log(e) + m\log(x))} + Bb^3c^2m^6xx^{(4n)}e^{(m\log(e) + m\log(x))} + 6Bab^2cdm^6xx^{(4n)}e^{(m\log(e) + m\log(x))} + 2Ab^3 \\
& *cdm^6xx^{(4n)}e^{(m\log(e) + m\log(x))} + 2Bb^3cdm^6xx^{(4n)}e^{(m\log(e) + m\log(x))} + 3Ba^2bd^2m^6xx^{(4n)}e^{(m\log(e) + m\log(x))} + 3Aab^2d^2m^6xx^{(4n)}e^{(m\log(e) + m\log(x))} + 3Bab^2d^2m^6xx \\
& x^{(4n)}e^{(m\log(e) + m\log(x))} + Ab^3d^2m^6xx^{(4n)}e^{(m\log(e) + m\log(x))} + Bb^3d^2m^6xx^{(4n)}e^{(m\log(e) + m\log(x))} + 17Bb^3c^2m^5n^5xx^{(4n)}e^{(m\log(e) + m\log(x))} + 102Bab^2cdm^5n^5xx^{(4n)}e^{(m \\
& *log(e) + m\log(x))} + 34Ab^3cdm^5n^5xx^{(4n)}e^{(m\log(e) + m\log(x))} + 32Bb^3cdm^5n^5xx^{(4n)}e^{(m\log(e) + m\log(x))} + 51Ba^2bd^2m^5n^5xx^{(4n)}e^{(m\log(e) + m\log(x))} + 51Aab^2d^2m^5n^5xx^{(4n)}e^{(m \\
& *log(e) + m\log(x))} + 48Bab^2d^2m^5n^5xx^{(4n)}e^{(m\log(e) + m\log(x))} + 16Ab^3d^2m^5n^5xx^{(4n)}e^{(m\log(e) + m\log(x))} + 15Bb^3d^2m^5n^5xx^{(4n)}e^{(m\log(e) + m\log(x))} + 107Bb^3c^2m^4n^2xx^{(4n)}e^{(m \\
& *log(e) + m\log(x))} + 642Bab^2cdm^4n^2xx^{(4n)}e^{(m\log(e) + m\log(x))} + 214Ab^3cdm^4n^2xx^{(4n)}e^{(m\log(e) + m\log(x))} + 190Bb^3cdm^4n^2xx^{(4n)}e^{(m\log(e) + m\log(x))} + 321Ba^2bd^2m^4n^2xx^{(4n)}e^{(m \\
& *log(e) + m\log(x))} + 321Aab^2d^2m^4n^2xx^{(4n)}e^{(m\log(e) + m\log(x))} + 285Bab^2d^2m^4n^2xx^{(4n)}e^{(m\log(e) + m\log(x))} + 95Ab^3d^2m^4n^2xx^{(4n)}e^{(m\log(e) + m\log(x))} + 85Bb^3d^2m^4n^2xx^{(4n)}e^{(m \\
& *log(e) + m\log(x))} + 307Bb^3c^2m^3n^3xx^{(4n)}e^{(m\log(e) + m\log(x))} + 1842Bab^2cdm^3n^3xx^{(4n)}e^{(m\log(e) + m\log(x))} + 614Ab^3cdm^3n^3xx^{(4n)}e^{(m\log(e) + m\log(x))} + 520Bb^3cdm^3n^3xx^{(4n)}e^{(m\log(e) + m\log(x))} + 921Ba^2bd^2m^3n^3 \\
& xx^{(4n)}e^{(m\log(e) + m\log(x))} + 921Aab^2d^2m^3n^3xx^{(4n)}e^{(m\log(e) + m\log(x))} + 780Bab^2d^2m^3n^3xx^{(4n)}e^{(m\log(e) + m\log(x))} + 260Ab^3d^2m^3n^3xx^{(4n)}e^{(m\log(e) + m\log(x))} + 225Bb^3d^2m^3n^3xx^{(4n)}e^{(m\log(e) + m\log(x))} + 396Bb^3c^2m^2n^4xx^{(4n)}e^{(m \\
& *log(e) + m\log(x))} + 2376Bab^2cdm^2n^4xx^{(4n)}e^{(m\log(e) + m\log(x))} + 792Ab^3cdm^2n^4xx^{(4n)}e^{(m\log(e) + m\log(x))} + 648Bb^3cdm^2n^4xx^{(4n)}e^{(m\log(e) + m\log(x))} + 1188Ba^2bd^2m^2n^4xx^{(4n)}e^{(m\log(e) + m\log(x))} + 1188Aab^2d^2m^2n^4xx^{(4n)}e^{(m \\
& *log(e) + m\log(x))} + 972Bab^2d^2m^2n^4xx^{(4n)}e^{(m\log(e) + m\log(x))} + 324Ab^3d^2m^2n^4xx^{(4n)}e^{(m\log(e) + m\log(x))} + 274Bb^3d^2m^2n^4xx^{(4n)}e^{(m\log(e) + m\log(x))} + 180Bb^3c^2m^5n^5xx^{(4n)}e^{(m\log(e) + m\log(x))} + 1080Bab^2cdm^5n^5xx^{(4n)}e^{(m \\
& *log(e) + m\log(x))} + 360Ab^3cdm^5n^5xx^{(4n)}e^{(m\log(e) + m\log(x))} + 288Bb^3cdm^5n^5xx^{(4n)}e^{(m\log(e) + m\log(x))} + 540Ba^2bd^2m^5n^5xx^{(4n)}e^{(m\log(e) + m\log(x))}
\end{aligned}$$

$$\begin{aligned}
& + 921*B*a^2*b*d^2*m^3*n^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 921*A*a*b^2*d \\
& ^2*m^3*n^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 780*B*a*b^2*d^2*m^3*n^3*x*x^ \\
& (3*n)*e^(m*log(e) + m*log(x)) + 260*A*b^3*d^2*m^3*n^3*x*x^(3*n)*e^(m*log(e) \\
& + m*log(x)) + 225*B*b^3*d^2*m^3*n^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 15 \\
& 24*B*a*b^2*c^2*m^2*n^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 508*A*b^3*c^2*m^ \\
& 2*n^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 396*B*b^3*c^2*m^2*n^4*x*x^(3*n)*e \\
& ^ (m*log(e) + m*log(x)) + 3048*B*a^2*b*c*d*m^2*n^4*x*x^(3*n)*e^(m*log(e) + m \\
& *log(x)) + 3048*A*a*b^2*c*d*m^2*n^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 237 \\
& 6*B*a*b^2*c*d*m^2*n^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 792*A*b^3*c*d*m^2 \\
& *n^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 648*B*b^3*c*d*m^2*n^4*x*x^(3*n)*e^ \\
& (m*log(e) + m*log(x)) + 508*B*a^3*d^2*m^2*n^4*x*x^(3*n)*e^(m*log(e) + m*log \\
& (x)) + 1524*A*a^2*b*d^2*m^2*n^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 1188*B* \\
& a^2*b*d^2*m^2*n^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 1188*A*a*b^2*d^2*m^2* \\
& n^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 972*B*a*b^2*d^2*m^2*n^4*x*x^(3*n)*e \\
& ^ (m*log(e) + m*log(x)) + 324*A*b^3*d^2*m^2*n^4*x*x^(3*n)*e^(m*log(e) + m*lo \\
& g(x)) + 274*B*b^3*d^2*m^2*n^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 720*B*a*b \\
& ^2*c^2*m^n^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 240*A*b^3*c^2*m^n^5*x*x^(3 \\
& *n)*e^(m*log(e) + m*log(x)) + 180*B*b^3*c^2*m^n^5*x*x^(3*n)*e^(m*log(e) + m \\
& *log(x)) + 1440*B*a^2*b*c*d*m^n^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 1440* \\
& A*a*b^2*c*d*m^n^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 1080*B*a*b^2*c*d*m^n^ \\
& 5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 360*A*b^3*c*d*m^n^5*x*x^(3*n)*e^(m*lo \\
& g(e) + m*log(x)) + 288*B*b^3*c*d*m^n^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + \\
& 240*B*a^3*d^2*m^n^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 720*A*a^2*b*d^2*m^n \\
& ^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 540*B*a^2*b*d^2*m^n^5*x*x^(3*n)*e^(m \\
& *log(e) + m*log(x)) + 540*A*a*b^2*d^2*m^n^5*x*x^(3*n)*e^(m*log(e) + m*log(x) \\
&)) + 432*B*a*b^2*d^2*m^n^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 144*A*b^3*d^ \\
& 2*m^n^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 120*B*b^3*d^2*m^n^5*x*x^(3*n)*e \\
& ^ (m*log(e) + m*log(x)) + 3*B*a^2*b*c^2*m^6*x*x^(2*n)*e^(m*log(e) + m*log(x) \\
&) + 3*A*a*b^2*c^2*m^6*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 3*B*a*b^2*c^2*m^6 \\
& *x*x^(2*n)*e^(m*log(e) + m*log(x)) + A*b^3*c^2*m^6*x*x^(2*n)*e^(m*log(e) + \\
& m*log(x)) + B*b^3*c^2*m^6*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 2*B*a^3*c*d*m \\
& ^6*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 6*A*a^2*b*c*d*m^6*x*x^(2*n)*e^(m*log \\
& (e) + m*log(x)) + 6*B*a^2*b*c*d*m^6*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 6*A \\
& *a*b^2*c*d*m^6*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 6*B*a*b^2*c*d*m^6*x*x^(2 \\
& *n)*e^(m*log(e) + m*log(x)) + 2*A*b^3*c*d*m^6*x*x^(2*n)*e^(m*log(e) + m*log \\
& (x)) + 2*B*b^3*c*d*m^6*x*x^(2*n)*e^(m*log(e) + m*log(x)) + A*a^3*d^2*m^6*x* \\
& x^(2*n)*e^(m*log(e) + m*log(x)) + B*a^3*d^2*m^6*x*x^(2*n)*e^(m*log(e) + m*l \\
& og(x)) + 3*A*a^2*b*d^2*m^6*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 3*B*a^2*b*d^ \\
& 2*m^6*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 3*A*a*b^2*d^2*m^6*x*x^(2*n)*e^(m* \\
& log(e) + m*log(x)) + 3*B*a*b^2*d^2*m^6*x*x^(2*n)*e^(m*log(e) + m*log(x)) + \\
& A*b^3*d^2*m^6*x*x^(2*n)*e^(m*log(e) + m*log(x)) + B*b^3*d^2*m^6*x*x^(2*n)*e \\
& ^ (m*log(e) + m*log(x)) + 57*B*a^2*b*c^2*m^5*n*x*x^(2*n)*e^(m*log(e) + m*log \\
& (x)) + 57*A*a*b^2*c^2*m^5*n*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 54*B*a*b^2* \\
& c^2*m^5*n*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 18*A*b^3*c^2*m^5*n*x*x^(2*n)* \\
& e^(m*log(e) + m*log(x)) + 17*B*b^3*c^2*m^5*n*x*x^(2*n)*e^(m*log(e) + m*log(
\end{aligned}$$

$x)) + 38*B*a^3*c*d*m^5*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 114*A*a^2*b*c*d*m^5*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 108*B*a^2*b*c*d*m^5*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 108*A*a*b^2*c*d*m^5*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 102*B*a*b^2*c*d*m^5*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 34*A*b^3*c*d*m^5*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 32*B*b^3*c*d*m^5*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 19*A*a^3*d^2*m^5*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 18*B*a^3*d^2*m^5*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 54*A*a^2*b*d^2*m^5*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 51*B*a^2*b*d^2*m^5*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 51*A*a*b^2*d^2*m^5*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 48*B*a*b^2*d^2*m^5*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 16*A*b^3*d^2*m^5*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 15*B*b^3*d^2*m^5*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 411*B*a^2*b*c^2*m^4*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 411*A*a*b^2*c^2*m^4*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 363*B*a*b^2*c^2*m^4*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 121*A*b^3*c^2*m^4*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 107*B*b^3*c^2*m^4*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 274*B*a^3*c*d*m^4*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 822*A*a^2*b*c*d*m^4*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 726*B*a^2*b*c*d*m^4*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 726*A*a*b^2*c*d*m^4*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 642*B*a*b^2*c*d*m^4*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 214*A*b^3*c*d*m^4*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 190*B*b^3*c*d*m^4*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 137*A*a^3*d^2*m^4*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 121*B*a^3*d^2*m^4*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 363*A*a^2*b*d^2*m^4*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 321*B*a^2*b*d^2*m^4*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 321*A*a*b^2*d^2*m^4*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 285*B*a*b^2*d^2*m^4*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 95*A*b^3*d^2*m^4*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 85*B*b^3*d^2*m^4*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1383*B*a^2*b*c^2*m^3*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1383*A*a*b^2*c^2*m^3*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1116*B*a*b^2*c^2*m^3*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 372*A*b^3*c^2*m^3*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 307*B*b^3*c^2*m^3*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 922*B*a^3*c*d*m^3*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 2766*A*a^2*b*c*d*m^3*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 2232*B*a^2*b*c*d*m^3*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 2232*A*a*b^2*c*d*m^3*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1842*B*a*b^2*c*d*m^3*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 614*A*b^3*c*d*m^3*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 520*B*b^3*c*d*m^3*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 461*A*a^3*d^2*m^3*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 372*B*a^3*d^2*m^3*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1116*A*a^2*b*d^2*m^3*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 921*B*a^2*b*d^2*m^3*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 921*A*a*b^2*d^2*m^3*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 780*B*a*b^2*d^2*m^3*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 260*A*b^3*d^2*m^3*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 225*B*b^3*d^2*m^3*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 2106*B*a^2*b*c^2*m^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 2106*A*a*b^2*c^2*m^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1524*B*a*b^2*c^2*m^2*n^4*x*x^{(2*$

$x^n e^{(m \log(e) + m \log(x))} + 57 B a^2 b^3 c^2 m^5 n^3 x^n e^{(m \log(e) + m \log(x))} + 57 A a^2 b^3 c^2 m^5 n^3 x^n e^{(m \log(e) + m \log(x))} + 54 B a^2 b^3 c^2 m^5 n^3 x^n e^{(m \log(e) + m \log(x))} + 18 A a^3 b^3 c^2 m^5 n^3 x^n e^{(m \log(e) + m \log(x))} + 17 B b^3 c^2 m^5 n^3 x^n e^{(m \log(e) + m \log(x))} + 40 A a^3 c^2 m^5 n^3 x^n e^{(m \log(e) + m \log(x))} + 38 B a^3 c^2 m^5 n^3 x^n e^{(m \log(e) + m \log(x))} + 114 A a^2 b^3 c^2 m^5 n^3 x^n e^{(m \log(e) + m \log(x))} + 108 B a^2 b^3 c^2 m^5 n^3 x^n e^{(m \log(e) + m \log(x))} + 108 A a^2 b^3 c^2 m^5 n^3 x^n e^{(m \log(e) + m \log(x))} + 102 B a^2 b^3 c^2 m^5 n^3 x^n e^{(m \log(e) + m \log(x))} + 34 A a^3 b^3 c^2 m^5 n^3 x^n e^{(m \log(e) + m \log(x))} + 32 B b^3 c^2 m^5 n^3 x^n e^{(m \log(e) + m \log(x))} + 19 A a^3 d^2 m^5 n^3 x^n e^{(m \log(e) + m \log(x))} + 18 B a^3 d^2 m^5 n^3 x^n e^{(m \log(e) + m \log(x))} + 54 A a^2 b^3 d^2 m^5 n^3 x^n e^{(m \log(e) + m \log(x))} + 51 B a^2 b^3 d^2 m^5 n^3 x^n e^{(m \log(e) + m \log(x))} + 51 A a^2 b^3 d^2 m^5 n^3 x^n e^{(m \log(e) + m \log(x))} + 48 B a^2 b^3 d^2 m^5 n^3 x^n e^{(m \log(e) + m \log(x))} + 16 A a^3 b^3 d^2 m^5 n^3 x^n e^{(m \log(e) + m \log(x))} + 15 B b^3 d^2 m^5 n^3 x^n e^{(m \log(e) + m \log(x))} + 155 B a^3 c^2 m^4 n^2 x^n e^{(m \log(e) + m \log(x))} + 465 A a^2 b^3 c^2 m^4 n^2 x^n e^{(m \log(e) + m \log(x))} + 411 B a^2 b^3 c^2 m^4 n^2 x^n e^{(m \log(e) + m \log(x))} + 411 A a^2 b^3 c^2 m^4 n^2 x^n e^{(m \log(e) + m \log(x))} + 363 B a^2 b^3 c^2 m^4 n^2 x^n e^{(m \log(e) + m \log(x))} + 121 A a^3 b^3 c^2 m^4 n^2 x^n e^{(m \log(e) + m \log(x))} + 107 B b^3 c^2 m^4 n^2 x^n e^{(m \log(e) + m \log(x))} + 310 A a^3 c^2 m^4 n^2 x^n e^{(m \log(e) + m \log(x))} + 274 B a^3 c^2 m^4 n^2 x^n e^{(m \log(e) + m \log(x))} + 822 A a^2 b^3 c^2 m^4 n^2 x^n e^{(m \log(e) + m \log(x))} + 726 B a^2 b^3 c^2 m^4 n^2 x^n e^{(m \log(e) + m \log(x))} + 726 A a^2 b^3 c^2 m^4 n^2 x^n e^{(m \log(e) + m \log(x))} + 642 B a^2 b^3 c^2 m^4 n^2 x^n e^{(m \log(e) + m \log(x))} + 214 A a^3 b^3 c^2 m^4 n^2 x^n e^{(m \log(e) + m \log(x))} + 190 B b^3 c^2 m^4 n^2 x^n e^{(m \log(e) + m \log(x))} + 137 A a^3 d^2 m^4 n^2 x^n e^{(m \log(e) + m \log(x))} + 121 B a^3 d^2 m^4 n^2 x^n e^{(m \log(e) + m \log(x))} + 363 A a^2 b^3 d^2 m^4 n^2 x^n e^{(m \log(e) + m \log(x))} + 321 B a^2 b^3 d^2 m^4 n^2 x^n e^{(m \log(e) + m \log(x))} + 321 A a^2 b^3 d^2 m^4 n^2 x^n e^{(m \log(e) + m \log(x))} + 285 B a^2 b^3 d^2 m^4 n^2 x^n e^{(m \log(e) + m \log(x))} + 95 A a^3 b^3 d^2 m^4 n^2 x^n e^{(m \log(e) + m \log(x))} + 85 B b^3 d^2 m^4 n^2 x^n e^{(m \log(e) + m \log(x))} + 580 B a^3 c^2 m^3 n^3 x^n e^{(m \log(e) + m \log(x))} + 1740 A a^2 b^3 c^2 m^3 n^3 x^n e^{(m \log(e) + m \log(x))} + 1383 B a^2 b^3 c^2 m^3 n^3 x^n e^{(m \log(e) + m \log(x))} + 1383 A a^2 b^3 c^2 m^3 n^3 x^n e^{(m \log(e) + m \log(x))} + 1116 B a^2 b^3 c^2 m^3 n^3 x^n e^{(m \log(e) + m \log(x))} + 372 A a^3 b^3 c^2 m^3 n^3 x^n e^{(m \log(e) + m \log(x))} + 307 B b^3 c^2 m^3 n^3 x^n e^{(m \log(e) + m \log(x))} + 1160 A a^3 c^2 m^3 n^3 x^n e^{(m \log(e) + m \log(x))} + 922 B a^3 c^2 m^3 n^3 x^n e^{(m \log(e) + m \log(x))} + 2766 A a^2 b^3 c^2 m^3 n^3 x^n e^{(m \log(e) + m \log(x))} + 2232 B a^2 b^3 c^2 m^3 n^3 x^n e^{(m \log(e) + m \log(x))} + 2232 A a^2 b^3 c^2 m^3 n^3 x^n e^{(m \log(e) + m \log(x))} + 1842 B a^2 b^3 c^2 m^3 n^3 x^n e^{(m \log(e) + m \log(x))} + 614 A a^3 b^3 c^2 m^3 n^3 x^n e^{(m \log(e) + m \log(x))} + 520 B b^3 c^2 m^3 n^3 x^n e^{(m \log(e) + m \log(x))} + 461 A a^3 d^2 m^3 n^3 x^n e^{(m \log(e) + m \log(x))} + 372 B a^3 d^2 m^3 n^3 x^n e^{(m \log(e) + m \log(x))} + 1116 A a^2 b^3 d^2 m^3 n^3 x^n e^{(m \log(e) + m \log(x))}$

$$\begin{aligned}
&) + m \log(x)) + 921 * B * a^2 * b * d^2 * m^3 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 921 \\
& * A * a * b^2 * d^2 * m^3 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 780 * B * a * b^2 * d^2 * m^3 * n^3 \\
& * x * x^n * e^{(m \log(e) + m \log(x))} + 260 * A * b^3 * d^2 * m^3 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + \\
& m \log(x)) + 225 * B * b^3 * d^2 * m^3 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 1044 * B * a \\
& ^3 * c^2 * m^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + 3132 * A * a^2 * b * c^2 * m^2 * n^4 * x * x \\
& ^n * e^{(m \log(e) + m \log(x))} + 2106 * B * a^2 * b * c^2 * m^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + m \\
& * \log(x)) + 2106 * A * a * b^2 * c^2 * m^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + 1524 * B * \\
& a * b^2 * c^2 * m^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + 508 * A * b^3 * c^2 * m^2 * n^4 * x * x \\
& ^n * e^{(m \log(e) + m \log(x))} + 396 * B * b^3 * c^2 * m^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + m \log \\
& (x)) + 2088 * A * a^3 * c * d * m^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + 1404 * B * a^3 * c \\
& * d * m^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + 4212 * A * a^2 * b * c * d * m^2 * n^4 * x * x^n * e \\
& ^{(m \log(e) + m \log(x))} + 3048 * B * a^2 * b * c * d * m^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + m \log \\
& (x)) + 3048 * A * a * b^2 * c * d * m^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + 2376 * B * a * b^2 \\
& * c * d * m^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + 792 * A * b^3 * c * d * m^2 * n^4 * x * x^n * e \\
& ^{(m \log(e) + m \log(x))} + 648 * B * b^3 * c * d * m^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + m \log(x) \\
&) + 702 * A * a^3 * d^2 * m^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + 508 * B * a^3 * d^2 * m^2 \\
& * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + 1524 * A * a^2 * b * d^2 * m^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + \\
& 1188 * B * a^2 * b * d^2 * m^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + 1188 * A * a * b^2 * d^2 * m^2 * n^4 * x * x^n * e \\
& ^{(m \log(e) + m \log(x))} + 972 * B * a * b^2 * d^2 * m^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + 324 * A * b^3 * d^2 * m^2 * n^4 * x * x^n * e \\
& ^{(m \log(e) + m \log(x))} + 274 * B * b^3 * d^2 * m^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + 720 \\
& * B * a^3 * c^2 * m * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + 2160 * A * a^2 * b * c^2 * m * n^5 * x * x \\
& ^n * e^{(m \log(e) + m \log(x))} + 1080 * B * a^2 * b * c^2 * m * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + m \log \\
& (x)) + 1080 * A * a * b^2 * c^2 * m * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + 720 * B * a * b^2 \\
& * c^2 * m * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + 240 * A * b^3 * c^2 * m * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + \\
& 180 * B * b^3 * c^2 * m * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + 144 \\
& 0 * A * a^3 * c * d * m * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + 720 * B * a^3 * c * d * m * n^5 * x * x^n \\
& * e^{(m \log(e) + m \log(x))} + 2160 * A * a^2 * b * c * d * m * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + m \log \\
& (x)) + 1440 * B * a^2 * b * c * d * m * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + 1440 * A * a * b^2 * \\
& c * d * m * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + 1080 * B * a * b^2 * c * d * m * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + \\
& m \log(e) + m \log(x)) + 360 * A * b^3 * c * d * m * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + 2 \\
& 88 * B * b^3 * c * d * m * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + 360 * A * a^3 * d^2 * m * n^5 * x * x^n \\
& * e^{(m \log(e) + m \log(x))} + 240 * B * a^3 * d^2 * m * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + m \log(x) \\
&) + 720 * A * a^2 * b * d^2 * m * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + 540 * B * a^2 * b * d^2 * \\
& m * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + 540 * A * a * b^2 * d^2 * m * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + m \log(x) \\
&) + 432 * B * a * b^2 * d^2 * m * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + 144 * \\
& A * b^3 * d^2 * m * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + 120 * B * b^3 * d^2 * m * n^5 * x * x^n * e \\
& ^{(m \log(e) + m \log(x))} + A * a^3 * c^2 * m^6 * x * e^{(m \log(e) + m \log(x))} + B * a^3 * c^2 \\
& * m^6 * x * e^{(m \log(e) + m \log(x))} + 3 * A * a^2 * b * c^2 * m^6 * x * e^{(m \log(e) + m \log(x))} + m \log(x) \\
&) + 3 * B * a^2 * b * c^2 * m^6 * x * e^{(m \log(e) + m \log(x))} + 3 * A * a * b^2 * c^2 * m^6 * x * e^{(m \log(e) + m \log(x))} + \\
& m \log(x)) + 3 * B * a * b^2 * c^2 * m^6 * x * e^{(m \log(e) + m \log(x))} + A * b^3 * c^2 * m^6 * x * e^{(m \log(e) + m \log(x))} + \\
& B * b^3 * c^2 * m^6 * x * e^{(m \log(e) + m \log(x))} + 2 * A * a^3 * c * d * m^6 * x * e^{(m \log(e) + m \log(x))} + 2 * B * a^3 * c * d * m^6 * x * e^{(m \log(e) + m \log(x))} + \\
& m \log(x)) + 6 * A * a^2 * b * c * d * m^6 * x * e^{(m \log(e) + m \log(x))} + 6 * B * a^2 * b * c * d * \\
& m^6 * x * e^{(m \log(e) + m \log(x))} + 6 * A * a * b^2 * c * d * m^6 * x * e^{(m \log(e) + m \log(x))} + 6 * A * a * b^2 * c * d * m^6 * x * e^{(m \log(e) + m \log(x))}
\end{aligned}$$

$$\begin{aligned}
& + 6*B*a*b^2*c*d*m^6*x*e^{(m*\log(e) + m*\log(x))} + 2*A*b^3*c*d*m^6*x*e^{(m*\log(e) + m*\log(x))} + 2*B*b^3*c*d*m^6*x*e^{(m*\log(e) + m*\log(x))} + A*a^3*d^2*m^6 \\
& *x*e^{(m*\log(e) + m*\log(x))} + B*a^3*d^2*m^6*x*e^{(m*\log(e) + m*\log(x))} + 3*A \\
& a^2*b*d^2*m^6*x*e^{(m*\log(e) + m*\log(x))} + 3*B*a^2*b*d^2*m^6*x*e^{(m*\log(e) + m*\log(x))} + 3*A*a*b^2*d^2*m^6*x*e^{(m*\log(e) + m*\log(x))} + 3*B*a*b^2*d^2*m^6 \\
& *x*e^{(m*\log(e) + m*\log(x))} + A*b^3*d^2*m^6*x*e^{(m*\log(e) + m*\log(x))} + B*b \\
& ^3*d^2*m^6*x*e^{(m*\log(e) + m*\log(x))} + 21*A*a^3*c^2*m^5*n*x*e^{(m*\log(e) + m \\
& *log(x))} + 20*B*a^3*c^2*m^5*n*x*e^{(m*\log(e) + m*\log(x))} + 60*A*a^2*b*c^2*m^5 \\
& *n*x*e^{(m*\log(e) + m*\log(x))} + 57*B*a^2*b*c^2*m^5*n*x*e^{(m*\log(e) + m*\log(x))} + 57*A*a*b^2*c^2*m^5*n*x*e^{(m*\log(e) + m*\log(x))} + 54*B*a*b^2*c^2*m^5*n \\
& *x*e^{(m*\log(e) + m*\log(x))} + 18*A*b^3*c^2*m^5*n*x*e^{(m*\log(e) + m*\log(x))} + \\
& 17*B*b^3*c^2*m^5*n*x*e^{(m*\log(e) + m*\log(x))} + 40*A*a^3*c*d*m^5*n*x*e^{(m \\
& log(e) + m*\log(x))} + 38*B*a^3*c*d*m^5*n*x*e^{(m*\log(e) + m*\log(x))} + 114*A*a^ \\
& 2*b*c*d*m^5*n*x*e^{(m*\log(e) + m*\log(x))} + 108*B*a^2*b*c*d*m^5*n*x*e^{(m*\log(\\
& e) + m*\log(x))} + 108*A*a*b^2*c*d*m^5*n*x*e^{(m*\log(e) + m*\log(x))} + 102*B*a*b \\
& ^2*c*d*m^5*n*x*e^{(m*\log(e) + m*\log(x))} + 34*A*b^3*c*d*m^5*n*x*e^{(m*\log(e) \\
& + m*\log(x))} + 32*B*b^3*c*d*m^5*n*x*e^{(m*\log(e) + m*\log(x))} + 19*A*a^3*d^2*m \\
& ^5*n*x*e^{(m*\log(e) + m*\log(x))} + 18*B*a^3*d^2*m^5*n*x*e^{(m*\log(e) + m*\log(x) \\
&)} + 54*A*a^2*b*d^2*m^5*n*x*e^{(m*\log(e) + m*\log(x))} + 51*B*a^2*b*d^2*m^5*n* \\
& x*e^{(m*\log(e) + m*\log(x))} + 51*A*a*b^2*d^2*m^5*n*x*e^{(m*\log(e) + m*\log(x))} \\
& + 48*B*a*b^2*d^2*m^5*n*x*e^{(m*\log(e) + m*\log(x))} + 16*A*b^3*d^2*m^5*n*x*e^{(\\
& m*\log(e) + m*\log(x))} + 15*B*b^3*d^2*m^5*n*x*e^{(m*\log(e) + m*\log(x))} + 175*A \\
& *a^3*c^2*m^4*n^2*x*e^{(m*\log(e) + m*\log(x))} + 155*B*a^3*c^2*m^4*n^2*x*e^{(m* \\
& log(e) + m*\log(x))} + 465*A*a^2*b*c^2*m^4*n^2*x*e^{(m*\log(e) + m*\log(x))} + 411 \\
& *B*a^2*b*c^2*m^4*n^2*x*e^{(m*\log(e) + m*\log(x))} + 411*A*a*b^2*c^2*m^4*n^2*x* \\
& e^{(m*\log(e) + m*\log(x))} + 363*B*a*b^2*c^2*m^4*n^2*x*e^{(m*\log(e) + m*\log(x))} \\
& + 121*A*b^3*c^2*m^4*n^2*x*e^{(m*\log(e) + m*\log(x))} + 107*B*b^3*c^2*m^4*n^2* \\
& x*e^{(m*\log(e) + m*\log(x))} + 310*A*a^3*c*d*m^4*n^2*x*e^{(m*\log(e) + m*\log(x))} \\
& + 274*B*a^3*c*d*m^4*n^2*x*e^{(m*\log(e) + m*\log(x))} + 822*A*a^2*b*c*d*m^4*n^ \\
& 2*x*e^{(m*\log(e) + m*\log(x))} + 726*B*a^2*b*c*d*m^4*n^2*x*e^{(m*\log(e) + m*\log \\
& (x))} + 726*A*a*b^2*c*d*m^4*n^2*x*e^{(m*\log(e) + m*\log(x))} + 642*B*a*b^2*c*d* \\
& m^4*n^2*x*e^{(m*\log(e) + m*\log(x))} + 214*A*b^3*c*d*m^4*n^2*x*e^{(m*\log(e) + m \\
& *log(x))} + 190*B*b^3*c*d*m^4*n^2*x*e^{(m*\log(e) + m*\log(x))} + 137*A*a^3*d^2* \\
& m^4*n^2*x*e^{(m*\log(e) + m*\log(x))} + 121*B*a^3*d^2*m^4*n^2*x*e^{(m*\log(e) + m \\
& *log(x))} + 363*A*a^2*b*d^2*m^4*n^2*x*e^{(m*\log(e) + m*\log(x))} + 321*B*a^2*b* \\
& d^2*m^4*n^2*x*e^{(m*\log(e) + m*\log(x))} + 321*A*a*b^2*d^2*m^4*n^2*x*e^{(m*\log(\\
& e) + m*\log(x))} + 285*B*a*b^2*d^2*m^4*n^2*x*e^{(m*\log(e) + m*\log(x))} + 95*A*b \\
& ^3*d^2*m^4*n^2*x*e^{(m*\log(e) + m*\log(x))} + 85*B*b^3*d^2*m^4*n^2*x*e^{(m*\log(\\
& e) + m*\log(x))} + 735*A*a^3*c^2*m^3*n^3*x*e^{(m*\log(e) + m*\log(x))} + 580*B*a^ \\
& 3*c^2*m^3*n^3*x*e^{(m*\log(e) + m*\log(x))} + 1740*A*a^2*b*c^2*m^3*n^3*x*e^{(m* \\
& log(e) + m*\log(x))} + 1383*B*a^2*b*c^2*m^3*n^3*x*e^{(m*\log(e) + m*\log(x))} + 13 \\
& 83*A*a*b^2*c^2*m^3*n^3*x*e^{(m*\log(e) + m*\log(x))} + 1116*B*a*b^2*c^2*m^3*n^3 \\
& *x*e^{(m*\log(e) + m*\log(x))} + 372*A*b^3*c^2*m^3*n^3*x*e^{(m*\log(e) + m*\log(x) \\
&)} + 307*B*b^3*c^2*m^3*n^3*x*e^{(m*\log(e) + m*\log(x))} + 1160*A*a^3*c*d*m^3*n^ \\
& 3*x*e^{(m*\log(e) + m*\log(x))} + 922*B*a^3*c*d*m^3*n^3*x*e^{(m*\log(e) + m*\log(x)
\end{aligned}$$

$$\begin{aligned}
&)) + 2766*A*a^2*b*c*d*m^3*n^3*x*e^{(m*\log(e) + m*\log(x))} + 2232*B*a^2*b*c*d* \\
&m^3*n^3*x*e^{(m*\log(e) + m*\log(x))} + 2232*A*a*b^2*c*d*m^3*n^3*x*e^{(m*\log(e) \\
&+ m*\log(x))} + 1842*B*a*b^2*c*d*m^3*n^3*x*e^{(m*\log(e) + m*\log(x))} + 614*A*b^ \\
&3*c*d*m^3*n^3*x*e^{(m*\log(e) + m*\log(x))} + 520*B*b^3*c*d*m^3*n^3*x*e^{(m*\log(\\
&e) + m*\log(x))} + 461*A*a^3*d^2*m^3*n^3*x*e^{(m*\log(e) + m*\log(x))} + 372*B*a^ \\
&3*d^2*m^3*n^3*x*e^{(m*\log(e) + m*\log(x))} + 1116*A*a^2*b*d^2*m^3*n^3*x*e^{(m* \\
&\log(e) + m*\log(x))} + 921*B*a^2*b*d^2*m^3*n^3*x*e^{(m*\log(e) + m*\log(x))} + 921 \\
&*A*a*b^2*d^2*m^3*n^3*x*e^{(m*\log(e) + m*\log(x))} + 780*B*a*b^2*d^2*m^3*n^3*x* \\
&e^{(m*\log(e) + m*\log(x))} + 260*A*b^3*d^2*m^3*n^3*x*e^{(m*\log(e) + m*\log(x))} + \\
&225*B*b^3*d^2*m^3*n^3*x*e^{(m*\log(e) + m*\log(x))} + 1624*A*a^3*c^2*m^2*n^4*x \\
&*e^{(m*\log(e) + m*\log(x))} + 1044*B*a^3*c^2*m^2*n^4*x*e^{(m*\log(e) + m*\log(x))} \\
&+ 3132*A*a^2*b*c^2*m^2*n^4*x*e^{(m*\log(e) + m*\log(x))} + 2106*B*a^2*b*c^2*m^ \\
&2*n^4*x*e^{(m*\log(e) + m*\log(x))} + 2106*A*a*b^2*c^2*m^2*n^4*x*e^{(m*\log(e) + \\
&m*\log(x))} + 1524*B*a*b^2*c^2*m^2*n^4*x*e^{(m*\log(e) + m*\log(x))} + 508*A*b^3* \\
&c^2*m^2*n^4*x*e^{(m*\log(e) + m*\log(x))} + 396*B*b^3*c^2*m^2*n^4*x*e^{(m*\log(e) \\
&+ m*\log(x))} + 2088*A*a^3*c*d*m^2*n^4*x*e^{(m*\log(e) + m*\log(x))} + 1404*B*a^ \\
&3*c*d*m^2*n^4*x*e^{(m*\log(e) + m*\log(x))} + 4212*A*a^2*b*c*d*m^2*n^4*x*e^{(m* \\
&\log(e) + m*\log(x))} + 3048*B*a^2*b*c*d*m^2*n^4*x*e^{(m*\log(e) + m*\log(x))} + 30 \\
&48*A*a*b^2*c*d*m^2*n^4*x*e^{(m*\log(e) + m*\log(x))} + 2376*B*a*b^2*c*d*m^2*n^4 \\
&>*x*e^{(m*\log(e) + m*\log(x))} + 792*A*b^3*c*d*m^2*n^4*x*e^{(m*\log(e) + m*\log(x) \\
&)} + 648*B*b^3*c*d*m^2*n^4*x*e^{(m*\log(e) + m*\log(x))} + 702*A*a^3*d^2*m^2*n^4 \\
&>*x*e^{(m*\log(e) + m*\log(x))} + 508*B*a^3*d^2*m^2*n^4*x*e^{(m*\log(e) + m*\log(x) \\
&)} + 1524*A*a^2*b*d^2*m^2*n^4*x*e^{(m*\log(e) + m*\log(x))} + 1188*B*a^2*b*d^2*m \\
&^2*n^4*x*e^{(m*\log(e) + m*\log(x))} + 1188*A*a*b^2*d^2*m^2*n^4*x*e^{(m*\log(e) + \\
&m*\log(x))} + 972*B*a*b^2*d^2*m^2*n^4*x*e^{(m*\log(e) + m*\log(x))} + 324*A*b^3* \\
&d^2*m^2*n^4*x*e^{(m*\log(e) + m*\log(x))} + 274*B*b^3*d^2*m^2*n^4*x*e^{(m*\log(e) \\
&+ m*\log(x))} + 1764*A*a^3*c^2*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 720*B*a^3*c \\
&^2*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 2160*A*a^2*b*c^2*m*n^5*x*e^{(m*\log(e) + \\
&m*\log(x))} + 1080*B*a^2*b*c^2*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 1080*A*a*b^ \\
&2*c^2*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 720*B*a*b^2*c^2*m*n^5*x*e^{(m*\log(e) \\
&+ m*\log(x))} + 240*A*b^3*c^2*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 180*B*b^3*c^ \\
&2*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 1440*A*a^3*c*d*m*n^5*x*e^{(m*\log(e) + m* \\
&\log(x))} + 720*B*a^3*c*d*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 2160*A*a^2*b*c*d* \\
&m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 1440*B*a^2*b*c*d*m*n^5*x*e^{(m*\log(e) + m* \\
&\log(x))} + 1440*A*a*b^2*c*d*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 1080*B*a*b^2*c \\
&*d*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 360*A*b^3*c*d*m*n^5*x*e^{(m*\log(e) + m* \\
&\log(x))} + 288*B*b^3*c*d*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 360*A*a^3*d^2*m*n \\
&^5*x*e^{(m*\log(e) + m*\log(x))} + 240*B*a^3*d^2*m*n^5*x*e^{(m*\log(e) + m*\log(x) \\
&)} + 720*A*a^2*b*d^2*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 540*B*a^2*b*d^2*m*n^5 \\
&>*x*e^{(m*\log(e) + m*\log(x))} + 540*A*a*b^2*d^2*m*n^5*x*e^{(m*\log(e) + m*\log(x) \\
&)} + 432*B*a*b^2*d^2*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 144*A*b^3*d^2*m*n^5*x \\
&*e^{(m*\log(e) + m*\log(x))} + 120*B*b^3*d^2*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + \\
&720*A*a^3*c^2*n^6*x*e^{(m*\log(e) + m*\log(x))} + 6*B*b^3*d^2*m^5*x*x^{(6*n)}*e^{(\\
&m*\log(e) + m*\log(x))} + 75*B*b^3*d^2*m^4*n*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} \\
&+ 340*B*b^3*d^2*m^3*n^2*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 675*B*b^3*d^2*
\end{aligned}$$

$$\begin{aligned}
& m^2 n^3 x x^{(6n)} e^{(m \log(e) + m \log(x))} + 548 B b^3 d^2 m n^4 x x^{(6n)} e^{(m \log(e) + m \log(x))} \\
& + 120 B b^3 d^2 n^5 x x^{(6n)} e^{(m \log(e) + m \log(x))} + 12 B b^3 c d m^5 x x^{(5n)} e^{(m \log(e) + m \log(x))} \\
& + 18 B a b^2 d^2 m^5 x x^{(5n)} e^{(m \log(e) + m \log(x))} + 6 A b^3 d^2 m^5 x x^{(5n)} e^{(m \log(e) + m \log(x))} \\
& + 6 B b^3 d^2 m^5 x x^{(5n)} e^{(m \log(e) + m \log(x))} + 160 B b^3 c d m^4 n x x^{(5n)} e^{(m \log(e) + m \log(x))} \\
& + 240 B a b^2 d^2 m^4 n x x^{(5n)} e^{(m \log(e) + m \log(x))} + 80 A b^3 d^2 m^4 n x x^{(5n)} e^{(m \log(e) + m \log(x))} \\
& + 75 B b^3 d^2 m^4 n x x^{(5n)} e^{(m \log(e) + m \log(x))} + 760 B b^3 c d m^3 n^2 x x^{(5n)} e^{(m \log(e) + m \log(x))} \\
& + 1140 B a b^2 d^2 m^3 n^2 x x^{(5n)} e^{(m \log(e) + m \log(x))} + 380 A b^3 d^2 m^3 n^2 x x^{(5n)} e^{(m \log(e) + m \log(x))} \\
& + 340 B b^3 d^2 m^3 n^2 x x^{(5n)} e^{(m \log(e) + m \log(x))} + 1560 B b^3 c d m^2 n^3 x x^{(5n)} e^{(m \log(e) + m \log(x))} \\
& + 2340 B a b^2 d^2 m^2 n^3 x x^{(5n)} e^{(m \log(e) + m \log(x))} + 780 A b^3 d^2 m^2 n^3 x x^{(5n)} e^{(m \log(e) + m \log(x))} \\
& + 675 B b^3 d^2 m^2 n^3 x x^{(5n)} e^{(m \log(e) + m \log(x))} + 1296 B b^3 c d m n^4 x x^{(5n)} e^{(m \log(e) + m \log(x))} \\
& + 1944 B a b^2 d^2 m n^4 x x^{(5n)} e^{(m \log(e) + m \log(x))} + 648 A b^3 d^2 m n^4 x x^{(5n)} e^{(m \log(e) + m \log(x))} \\
& + 548 B b^3 d^2 m n^4 x x^{(5n)} e^{(m \log(e) + m \log(x))} + 288 B b^3 c d n^5 x x^{(5n)} e^{(m \log(e) + m \log(x))} \\
& + 432 B a b^2 d^2 n^5 x x^{(5n)} e^{(m \log(e) + m \log(x))} + 144 A b^3 d^2 n^5 x x^{(5n)} e^{(m \log(e) + m \log(x))} \\
& + 120 B b^3 d^2 n^5 x x^{(5n)} e^{(m \log(e) + m \log(x))} + 6 B b^3 c^2 m^5 x x^{(4n)} e^{(m \log(e) + m \log(x))} \\
& + 36 B a b^2 c d m^5 x x^{(4n)} e^{(m \log(e) + m \log(x))} + 12 A b^3 c d m^5 x x^{(4n)} e^{(m \log(e) + m \log(x))} \\
& + 12 B b^3 c d m^5 x x^{(4n)} e^{(m \log(e) + m \log(x))} + 18 B a^2 b d^2 m^5 x x^{(4n)} e^{(m \log(e) + m \log(x))} \\
& + 18 A a b^2 d^2 m^5 x x^{(4n)} e^{(m \log(e) + m \log(x))} + 18 B a b^2 d^2 m^5 x x^{(4n)} e^{(m \log(e) + m \log(x))} \\
& + 6 A b^3 d^2 m^5 x x^{(4n)} e^{(m \log(e) + m \log(x))} + 6 B b^3 d^2 m^5 x x^{(4n)} e^{(m \log(e) + m \log(x))} \\
& + 85 B b^3 c^2 m^4 n x x^{(4n)} e^{(m \log(e) + m \log(x))} + 510 B a b^2 c d m^4 n x x^{(4n)} e^{(m \log(e) + m \log(x))} \\
& + 170 A b^3 c d m^4 n x x^{(4n)} e^{(m \log(e) + m \log(x))} + 160 B b^3 c d m^4 n x x^{(4n)} e^{(m \log(e) + m \log(x))} \\
& + 255 B a^2 b d^2 m^4 n x x^{(4n)} e^{(m \log(e) + m \log(x))} + 255 A a b^2 d^2 m^4 n x x^{(4n)} e^{(m \log(e) + m \log(x))} \\
& + 240 B a b^2 d^2 m^4 n x x^{(4n)} e^{(m \log(e) + m \log(x))} + 80 A b^3 d^2 m^4 n x x^{(4n)} e^{(m \log(e) + m \log(x))} \\
& + 75 B b^3 d^2 m^4 n x x^{(4n)} e^{(m \log(e) + m \log(x))} + 428 B b^3 c^2 m^3 n^2 x x^{(4n)} e^{(m \log(e) + m \log(x))} \\
& + 2568 B a b^2 c d m^3 n^2 x x^{(4n)} e^{(m \log(e) + m \log(x))} + 856 A b^3 c d m^3 n^2 x x^{(4n)} e^{(m \log(e) + m \log(x))} \\
& + 760 B b^3 c d m^3 n^2 x x^{(4n)} e^{(m \log(e) + m \log(x))} + 1284 B a^2 b d^2 m^3 n^2 x x^{(4n)} e^{(m \log(e) + m \log(x))} \\
& + 1284 A a b^2 d^2 m^3 n^2 x x^{(4n)} e^{(m \log(e) + m \log(x))} + 1140 B a b^2 d^2 m^3 n^2 x x^{(4n)} e^{(m \log(e) + m \log(x))} \\
& + 380 A b^3 d^2 m^3 n^2 x x^{(4n)} e^{(m \log(e) + m \log(x))} + 340 B b^3 d^2 m^3 n^2 x x^{(4n)} e^{(m \log(e) + m \log(x))} \\
& + 921 B b^3 c^2 m^2 n^3 x x^{(4n)} e^{(m \log(e) + m \log(x))} + 5526 B a b^2 c d m^2 n^3 x x^{(4n)} e^{(m \log(e) + m \log(x))} \\
& + 1842 A b^3 c d m^2 n^3 x x^{(4n)} e^{(m \log(e) + m \log(x))} + 1560 B b^3 c d m^2 n^3 x x^{(4n)} e^{(m \log(e) + m \log(x))} \\
& + 2763 B a^2 b d^2 m^2 n^3 x x^{(4n)} e^{(m \log(e) + m \log(x))} + 2763 A a b^2 d^2 m^2 n^3 x x^{(4n)} e^{(m \log(e) + m \log(x))}
\end{aligned}$$

$$\begin{aligned}
&) + m \log(x)) + 2340 * B * a * b^2 * d^2 * m^2 * n^3 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 780 * A * b^3 * d^2 * m^2 * n^3 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 675 * B * b^3 * d^2 * m \\
& ^2 * n^3 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 792 * B * b^3 * c^2 * m * n^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 4752 * B * a * b^2 * c * d * m * n^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 1584 * A * b^3 * c * d * m * n^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 1296 * B * b^3 * c * d * m * n^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 2376 * B * a^2 * b * d^2 * m * n^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 2376 * A * a * b^2 * d^2 * m * n^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 1944 * B * a * b^2 * d^2 * m * n^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 648 * A * b^3 * d^2 * m * n^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 548 * B * b^3 * d^2 * m * n^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 180 * B * b^3 * c^2 * n^5 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 1080 * B * a * b^2 * c * d * n^5 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 360 * A * b^3 * c * d * n^5 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 288 * B * b^3 * c * d * n^5 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 540 * B * a^2 * b * d^2 * n^5 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 540 * A * a * b^2 * d^2 * n^5 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 432 * B * a * b^2 * d^2 * n^5 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 144 * A * b^3 * d^2 * n^5 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 120 * B * b^3 * d^2 * n^5 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 18 * B * a * b^2 * c^2 * m^5 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 6 * A * b^3 * c^2 * m^5 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 6 * B * b^3 * c^2 * m^5 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 36 * B * a^2 * b * c * d * m^5 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 36 * A * a * b^2 * c * d * m^5 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 36 * B * a * b^2 * c * d * m^5 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 12 * A * b^3 * c * d * m^5 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 12 * B * b^3 * c * d * m^5 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 6 * B * a^3 * d^2 * m^5 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 18 * A * a^2 * b * d^2 * m^5 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 18 * B * a^2 * b * d^2 * m^5 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 18 * A * a * b^2 * d^2 * m^5 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 18 * B * a * b^2 * d^2 * m^5 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 6 * A * b^3 * d^2 * m^5 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 6 * B * b^3 * d^2 * m^5 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 270 * B * a * b^2 * c^2 * m^4 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 90 * A * b^3 * c^2 * m^4 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 85 * B * b^3 * c^2 * m^4 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 540 * B * a^2 * b * c * d * m^4 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 540 * A * a * b^2 * c * d * m^4 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 510 * B * a * b^2 * c * d * m^4 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 170 * A * b^3 * c * d * m^4 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 160 * B * b^3 * c * d * m^4 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 90 * B * a^3 * d^2 * m^4 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 270 * A * a^2 * b * d^2 * m^4 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 255 * B * a^2 * b * d^2 * m^4 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 255 * A * a * b^2 * d^2 * m^4 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 240 * B * a * b^2 * d^2 * m^4 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 80 * A * b^3 * d^2 * m^4 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 75 * B * b^3 * d^2 * m^4 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 1452 * B * a * b^2 * c^2 * m^3 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 484 * A * b^3 * c^2 * m^3 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 428 * B * b^3 * c^2 * m^3 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 2904 * B * a^2 * b * c * d * m^3 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 2904 * A * a * b^2 * c * d * m^3 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 2568 * B * a * b^2 * c * d * m^3 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 856 * A * b^3 * c * d * m^3 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 760 * B * b^3 * c * d * m^3 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 484 * B * a^3 * d^2 * m^3 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))}
\end{aligned}$$

*log(e) + m*log(x)) + 1452*A*a^2*b*d^2*m^3*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 1284*B*a^2*b*d^2*m^3*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 1284*A*a*b^2*d^2*m^3*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 1140*B*a*b^2*d^2*m^3*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 380*A*b^3*d^2*m^3*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 340*B*b^3*d^2*m^3*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 3348*B*a*b^2*c^2*m^2*n^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 1116*A*b^3*c^2*m^2*n^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 921*B*b^3*c^2*m^2*n^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 6696*B*a^2*b*c*d*m^2*n^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 6696*A*a*b^2*c*d*m^2*n^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 5526*B*a*b^2*c*d*m^2*n^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 1842*A*b^3*c*d*m^2*n^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 1560*B*b^3*c*d*m^2*n^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 1116*B*a^3*d^2*m^2*n^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 3348*A*a^2*b*d^2*m^2*n^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 2763*B*a^2*b*d^2*m^2*n^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 2763*A*a*b^2*d^2*m^2*n^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 2340*B*a*b^2*d^2*m^2*n^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 780*A*b^3*d^2*m^2*n^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 675*B*b^3*d^2*m^2*n^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 3048*B*a*b^2*c^2*m*n^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 1016*A*b^3*c^2*m*n^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 792*B*b^3*c^2*m*n^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 6096*B*a^2*b*c*d*m*n^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 6096*A*a*b^2*c*d*m*n^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 4752*B*a*b^2*c*d*m*n^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 1584*A*b^3*c*d*m*n^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 1296*B*b^3*c*d*m*n^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 1016*B*a^3*d^2*m*n^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 3048*A*a^2*b*d^2*m*n^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 2376*B*a^2*b*d^2*m*n^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 2376*A*a*b^2*d^2*m*n^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 1944*B*a*b^2*d^2*m*n^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 648*A*b^3*d^2*m*n^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 548*B*b^3*d^2*m*n^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 720*B*a*b^2*c^2*n^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 240*A*b^3*c^2*n^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 180*B*b^3*c^2*n^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 1440*B*a^2*b*c*d*n^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 1440*A*a*b^2*c*d*n^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 1080*B*a*b^2*c*d*n^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 360*A*b^3*c*d*n^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 288*B*b^3*c*d*n^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 240*B*a^3*d^2*n^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 720*A*a^2*b*d^2*n^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 540*B*a^2*b*d^2*n^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 540*A*a*b^2*d^2*n^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 432*B*a*b^2*d^2*n^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 144*A*b^3*d^2*n^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 120*B*b^3*d^2*n^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 18*B*a^2*b*c^2*m^5*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 18*A*a*b^2*c^2*m^5*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 18*B*a*b^2*c^2*m^5*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 6*A*b^3*c^2*m^5*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 6*B*b^3*c^2*m^5*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 12*B*a^3*c*d*m^5*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 36*A*a^2*b*c*d*m^5*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 36*B*a^2*b*c*d*m^5*x*x

$$\begin{aligned}
& x^{(2n)}e^{(m\log(e) + m\log(x))} + 36A^*a^*b^{2c}d^*m^5x^{(2n)}e^{(m\log(e) + m\log(x))} + 36B^*a^*b^{2c}d^*m^5x^{(2n)}e^{(m\log(e) + m\log(x))} + 12A^*b^{3c}d^*m^5x^{(2n)}e^{(m\log(e) + m\log(x))} + 12B^*b^{3c}d^*m^5x^{(2n)}e^{(m\log(e) + m\log(x))} + 6A^*a^{3d}d^*m^5x^{(2n)}e^{(m\log(e) + m\log(x))} + 6B^*a^{3d}d^*m^5x^{(2n)}e^{(m\log(e) + m\log(x))} + 18A^*a^{2b}d^*m^5x^{(2n)}e^{(m\log(e) + m\log(x))} + 18B^*a^{2b}d^*m^5x^{(2n)}e^{(m\log(e) + m\log(x))} + 18A^*a^*b^{2d}d^*m^5x^{(2n)}e^{(m\log(e) + m\log(x))} + 18B^*a^*b^{2d}d^*m^5x^{(2n)}e^{(m\log(e) + m\log(x))} + 6A^*b^{3d}d^*m^5x^{(2n)}e^{(m\log(e) + m\log(x))} + 6B^*b^{3d}d^*m^5x^{(2n)}e^{(m\log(e) + m\log(x))} \\
& + 285B^*a^{2b}c^{2m}n^4x^{(2n)}e^{(m\log(e) + m\log(x))} + 285A^*a^*b^{2c}d^*m^4n^4x^{(2n)}e^{(m\log(e) + m\log(x))} + 270B^*a^*b^{2c}d^*m^4n^4x^{(2n)}e^{(m\log(e) + m\log(x))} + 90A^*b^{3c}d^*m^4n^4x^{(2n)}e^{(m\log(e) + m\log(x))} + 85B^*b^{3c}d^*m^4n^4x^{(2n)}e^{(m\log(e) + m\log(x))} + 190B^*a^{3c}d^*m^4n^4x^{(2n)}e^{(m\log(e) + m\log(x))} + 570A^*a^{2b}c^*d^*m^4n^4x^{(2n)}e^{(m\log(e) + m\log(x))} + 540B^*a^{2b}c^*d^*m^4n^4x^{(2n)}e^{(m\log(e) + m\log(x))} + 540A^*a^*b^{2c}d^*m^4n^4x^{(2n)}e^{(m\log(e) + m\log(x))} + 510B^*a^*b^{2c}d^*m^4n^4x^{(2n)}e^{(m\log(e) + m\log(x))} + 170A^*b^{3c}d^*m^4n^4x^{(2n)}e^{(m\log(e) + m\log(x))} + 160B^*b^{3c}d^*m^4n^4x^{(2n)}e^{(m\log(e) + m\log(x))} + 95A^*a^{3d}d^*m^4n^4x^{(2n)}e^{(m\log(e) + m\log(x))} + 90B^*a^{3d}d^*m^4n^4x^{(2n)}e^{(m\log(e) + m\log(x))} + 270A^*a^{2b}d^*m^4n^4x^{(2n)}e^{(m\log(e) + m\log(x))} + 255B^*a^{2b}d^*m^4n^4x^{(2n)}e^{(m\log(e) + m\log(x))} + 255A^*a^*b^{2d}d^*m^4n^4x^{(2n)}e^{(m\log(e) + m\log(x))} + 240B^*a^*b^{2d}d^*m^4n^4x^{(2n)}e^{(m\log(e) + m\log(x))} + 80A^*b^{3d}d^*m^4n^4x^{(2n)}e^{(m\log(e) + m\log(x))} + 75B^*b^{3d}d^*m^4n^4x^{(2n)}e^{(m\log(e) + m\log(x))} + 1644B^*a^{2b}c^{2m}n^3x^{(2n)}e^{(m\log(e) + m\log(x))} + 1644A^*a^*b^{2c}d^*m^3n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 1452B^*a^*b^{2c}d^*m^3n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 484A^*b^{3c}d^*m^3n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 428B^*b^{3c}d^*m^3n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 1096B^*a^{3c}d^*m^3n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 328B^*a^{2b}c^*d^*m^3n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 2904B^*a^{2b}c^*d^*m^3n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 2904A^*a^*b^{2c}d^*m^3n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 2568B^*a^*b^{2c}d^*m^3n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 856A^*b^{3c}d^*m^3n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 760B^*b^{3c}d^*m^3n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 548A^*a^{3d}d^*m^3n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 484B^*a^{3d}d^*m^3n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 1452A^*a^{2b}d^*m^3n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 1284B^*a^{2b}d^*m^3n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 1284A^*a^*b^{2d}d^*m^3n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 1140B^*a^*b^{2d}d^*m^3n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 380A^*b^{3d}d^*m^3n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 340B^*b^{3d}d^*m^3n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 4149B^*a^{2b}c^{2m}n^3x^{(2n)}e^{(m\log(e) + m\log(x))} + 4149A^*a^*b^{2c}d^*m^2n^3x^{(2n)}e^{(m\log(e) + m\log(x))} + 3348B^*a^*b^{2c}d^*m^2n^3x^{(2n)}e^{(m\log(e) + m\log(x))} + 1116A^*b^{3c}d^*m^2n^3x^{(2n)}e^{(m\log(e) + m\log(x))} + 921B^*b^{3c}d^*m^2n^3x^{(2n)}e^{(m\log(e) + m\log(x))} + 2766B^*a^{3c}d^*m^2n^3x^{(2n)}e^{(m\log(e) + m\log(x))} + 8298A^*a
\end{aligned}$$

$$\begin{aligned}
& 2*b*c*d*m^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 6696*B*a^2*b*c*d*m^2*n \\
& ^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 6696*A*a*b^2*c*d*m^2*n^3*x*x^{(2*n)}*e \\
& ^{(m*\log(e) + m*\log(x))} + 5526*B*a*b^2*c*d*m^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m \\
& *\log(x))} + 1842*A*b^3*c*d*m^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1560* \\
& B*b^3*c*d*m^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1383*A*a^3*d^2*m^2*n^ \\
& 3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1116*B*a^3*d^2*m^2*n^3*x*x^{(2*n)}*e^{(m \\
& *\log(e) + m*\log(x))} + 3348*A*a^2*b*d^2*m^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*lo \\
& g(x))} + 2763*B*a^2*b*d^2*m^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 2763*A \\
& *a*b^2*d^2*m^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 2340*B*a*b^2*d^2*m^2 \\
& *n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 780*A*b^3*d^2*m^2*n^3*x*x^{(2*n)}*e^{ \\
& (m*\log(e) + m*\log(x))} + 675*B*b^3*d^2*m^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log \\
& (x))} + 4212*B*a^2*b*c^2*m*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 4212*A*a \\
& b^2*c^2*m*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3048*B*a*b^2*c^2*m*n^4*x \\
& x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1016*A*b^3*c^2*m*n^4*x*x^{(2*n)}*e^{(m*\log(e \\
&) + m*\log(x))} + 792*B*b^3*c^2*m*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 280 \\
& 8*B*a^3*c*d*m*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 8424*A*a^2*b*c*d*m*n^ \\
& 4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 6096*B*a^2*b*c*d*m*n^4*x*x^{(2*n)}*e^{(m \\
& *\log(e) + m*\log(x))} + 6096*A*a*b^2*c*d*m*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(\\
& x))} + 4752*B*a*b^2*c*d*m*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1584*A*b^3 \\
& *c*d*m*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1296*B*b^3*c*d*m*n^4*x*x^{(2* \\
& n)}*e^{(m*\log(e) + m*\log(x))} + 1404*A*a^3*d^2*m*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m \\
& *\log(x))} + 1016*B*a^3*d^2*m*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3048*A \\
& a^2*b*d^2*m*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 2376*B*a^2*b*d^2*m*n^4 \\
& x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 2376*A*a*b^2*d^2*m*n^4*x*x^{(2*n)}*e^{(m* \\
& \log(e) + m*\log(x))} + 1944*B*a*b^2*d^2*m*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x) \\
&)} + 648*A*b^3*d^2*m*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 548*B*b^3*d^2*m \\
& *n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1080*B*a^2*b*c^2*n^5*x*x^{(2*n)}*e^{(\\
& m*\log(e) + m*\log(x))} + 1080*A*a*b^2*c^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x \\
&))} + 720*B*a*b^2*c^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 240*A*b^3*c^2* \\
& n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 180*B*b^3*c^2*n^5*x*x^{(2*n)}*e^{(m*lo \\
& g(e) + m*\log(x))} + 720*B*a^3*c*d*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 21 \\
& 60*A*a^2*b*c*d*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1440*B*a^2*b*c*d*n^5 \\
& *x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1440*A*a*b^2*c*d*n^5*x*x^{(2*n)}*e^{(m*lo \\
& g(e) + m*\log(x))} + 1080*B*a*b^2*c*d*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + \\
& 360*A*b^3*c*d*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 288*B*b^3*c*d*n^5*x \\
& x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 360*A*a^3*d^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + \\
& m*\log(x))} + 240*B*a^3*d^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 720*A*a^ \\
& 2*b*d^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 540*B*a^2*b*d^2*n^5*x*x^{(2* \\
& n)}*e^{(m*\log(e) + m*\log(x))} + 540*A*a*b^2*d^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m* \\
& \log(x))} + 432*B*a*b^2*d^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 144*A*b^3 \\
& *d^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 120*B*b^3*d^2*n^5*x*x^{(2*n)}*e^{ \\
& (m*\log(e) + m*\log(x))} + 6*B*a^3*c^2*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 18* \\
& A*a^2*b*c^2*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 18*B*a^2*b*c^2*m^5*x*x^n*e^{ \\
& (m*\log(e) + m*\log(x))} + 18*A*a*b^2*c^2*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + \\
& 18*B*a*b^2*c^2*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 6*A*b^3*c^2*m^5*x*x^n*e^{
\end{aligned}$$

$$\begin{aligned}
& (m*\log(e) + m*\log(x)) + 6*B*b^3*c^2*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 12* \\
& A*a^3*c*d*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 12*B*a^3*c*d*m^5*x*x^n*e^{(m* \\
& \log(e) + m*\log(x))} + 36*A*a^2*b*c*d*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 36*B \\
& *a^2*b*c*d*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 36*A*a*b^2*c*d*m^5*x*x^n*e^{(\\
& m*\log(e) + m*\log(x))} + 36*B*a*b^2*c*d*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1 \\
& 2*A*b^3*c*d*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 12*B*b^3*c*d*m^5*x*x^n*e^{(m \\
& *\log(e) + m*\log(x))} + 6*A*a^3*d^2*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 6*B*a \\
& ^3*d^2*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 18*A*a^2*b*d^2*m^5*x*x^n*e^{(m*lo \\
& g(e) + m*\log(x))} + 18*B*a^2*b*d^2*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 18*A* \\
& a*b^2*d^2*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 18*B*a*b^2*d^2*m^5*x*x^n*e^{(m \\
& *\log(e) + m*\log(x))} + 6*A*b^3*d^2*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 6*B*b \\
& ^3*d^2*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 100*B*a^3*c^2*m^4*n*x*x^n*e^{(m* \\
& \log(e) + m*\log(x))} + 300*A*a^2*b*c^2*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2 \\
& 85*B*a^2*b*c^2*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 285*A*a*b^2*c^2*m^4*n* \\
& x*x^n*e^{(m*\log(e) + m*\log(x))} + 270*B*a*b^2*c^2*m^4*n*x*x^n*e^{(m*\log(e) + m \\
& *\log(x))} + 90*A*b^3*c^2*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 85*B*b^3*c^2* \\
& m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 200*A*a^3*c*d*m^4*n*x*x^n*e^{(m*\log(e) \\
& + m*\log(x))} + 190*B*a^3*c*d*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 570*A*a^ \\
& 2*b*c*d*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 540*B*a^2*b*c*d*m^4*n*x*x^n*e \\
& ^{(m*\log(e) + m*\log(x))} + 540*A*a*b^2*c*d*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x) \\
&)} + 510*B*a*b^2*c*d*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 170*A*b^3*c*d*m^4 \\
& *n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 160*B*b^3*c*d*m^4*n*x*x^n*e^{(m*\log(e) + \\
& m*\log(x))} + 95*A*a^3*d^2*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 90*B*a^3*d^2 \\
& *m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 270*A*a^2*b*d^2*m^4*n*x*x^n*e^{(m*\log \\
& (e) + m*\log(x))} + 255*B*a^2*b*d^2*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 255 \\
& *A*a*b^2*d^2*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 240*B*a*b^2*d^2*m^4*n*x* \\
& x^n*e^{(m*\log(e) + m*\log(x))} + 80*A*b^3*d^2*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(\\
& x))} + 75*B*b^3*d^2*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 620*B*a^3*c^2*m^3* \\
& n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1860*A*a^2*b*c^2*m^3*n^2*x*x^n*e^{(m*\log \\
& (e) + m*\log(x))} + 1644*B*a^2*b*c^2*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + \\
& 1644*A*a*b^2*c^2*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1452*B*a*b^2*c^2*m \\
& ^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 484*A*b^3*c^2*m^3*n^2*x*x^n*e^{(m*\log \\
& (e) + m*\log(x))} + 428*B*b^3*c^2*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 124 \\
& 0*A*a^3*c*d*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1096*B*a^3*c*d*m^3*n^2* \\
& x*x^n*e^{(m*\log(e) + m*\log(x))} + 3288*A*a^2*b*c*d*m^3*n^2*x*x^n*e^{(m*\log(e) \\
& + m*\log(x))} + 2904*B*a^2*b*c*d*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2904 \\
& *A*a*b^2*c*d*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2568*B*a*b^2*c*d*m^3*n \\
& ^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 856*A*b^3*c*d*m^3*n^2*x*x^n*e^{(m*\log(e) \\
& + m*\log(x))} + 760*B*b^3*c*d*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 548*A*a \\
& ^3*d^2*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 484*B*a^3*d^2*m^3*n^2*x*x^n* \\
& e^{(m*\log(e) + m*\log(x))} + 1452*A*a^2*b*d^2*m^3*n^2*x*x^n*e^{(m*\log(e) + m*lo \\
& g(x))} + 1284*B*a^2*b*d^2*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1284*A*a*b \\
& ^2*d^2*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1140*B*a*b^2*d^2*m^3*n^2*x*x \\
& ^n*e^{(m*\log(e) + m*\log(x))} + 380*A*b^3*d^2*m^3*n^2*x*x^n*e^{(m*\log(e) + m*lo \\
& g(x))} + 340*B*b^3*d^2*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1740*B*a^3*c^
\end{aligned}$$

$$\begin{aligned}
& 2m^2n^3xxx^n e^{(m\log(e) + m\log(x))} + 5220Aa^2b^2c^2m^2n^3xxx^n e^{(m\log(e) + m\log(x))} \\
& + 4149Bba^2b^2c^2m^2n^3xxx^n e^{(m\log(e) + m\log(x))} + 4149Aab^2c^2m^2n^3xxx^n e^{(m\log(e) + m\log(x))} \\
& + 3348Bba^2b^2c^2m^2n^3xxx^n e^{(m\log(e) + m\log(x))} + 1116Ab^3c^2m^2n^3xxx^n e^{(m\log(e) + m\log(x))} \\
& + 921Bb^3c^2m^2n^3xxx^n e^{(m\log(e) + m\log(x))} + 3480Aa^3c^2m^2n^3xxx^n e^{(m\log(e) + m\log(x))} \\
& + 2766Bba^3c^2m^2n^3xxx^n e^{(m\log(e) + m\log(x))} + 8298Aa^2b^2c^2m^2n^3xxx^n e^{(m\log(e) + m\log(x))} \\
& + 6696Bba^2b^2c^2m^2n^3xxx^n e^{(m\log(e) + m\log(x))} + 6696Aab^2c^2m^2n^3xxx^n e^{(m\log(e) + m\log(x))} \\
& + 5526Bba^2b^2c^2m^2n^3xxx^n e^{(m\log(e) + m\log(x))} + 1842Ab^3c^2m^2n^3xxx^n e^{(m\log(e) + m\log(x))} \\
& + 1560Bb^3c^2m^2n^3xxx^n e^{(m\log(e) + m\log(x))} + 1383Aa^3d^2m^2n^3xxx^n e^{(m\log(e) + m\log(x))} \\
& + 1116Bba^3d^2m^2n^3xxx^n e^{(m\log(e) + m\log(x))} + 3348Aa^2b^2d^2m^2n^3xxx^n e^{(m\log(e) + m\log(x))} \\
& + 2763Bba^2b^2d^2m^2n^3xxx^n e^{(m\log(e) + m\log(x))} + 2763Aab^2d^2m^2n^3xxx^n e^{(m\log(e) + m\log(x))} \\
& + 2340Bba^2b^2d^2m^2n^3xxx^n e^{(m\log(e) + m\log(x))} + 780Ab^3d^2m^2n^3xxx^n e^{(m\log(e) + m\log(x))} \\
& + 675Bb^3d^2m^2n^3xxx^n e^{(m\log(e) + m\log(x))} + 2088Bba^3c^2m^2n^4xxx^n e^{(m\log(e) + m\log(x))} \\
& + 6264Aa^2b^2c^2m^2n^4xxx^n e^{(m\log(e) + m\log(x))} + 4212Bba^2b^2c^2m^2n^4xxx^n e^{(m\log(e) + m\log(x))} \\
& + 4212Aab^2c^2m^2n^4xxx^n e^{(m\log(e) + m\log(x))} + 3048Bba^2b^2c^2m^2n^4xxx^n e^{(m\log(e) + m\log(x))} \\
& + 1016Ab^3c^2m^2n^4xxx^n e^{(m\log(e) + m\log(x))} + 792Bb^3c^2m^2n^4xxx^n e^{(m\log(e) + m\log(x))} \\
& + 4176Aa^3c^2m^2n^4xxx^n e^{(m\log(e) + m\log(x))} + 2808Bba^3c^2m^2n^4xxx^n e^{(m\log(e) + m\log(x))} \\
& + 8424Aa^2b^2c^2m^2n^4xxx^n e^{(m\log(e) + m\log(x))} + 6096Bba^2b^2c^2m^2n^4xxx^n e^{(m\log(e) + m\log(x))} \\
& + 6096Aab^2c^2m^2n^4xxx^n e^{(m\log(e) + m\log(x))} + 4752Bba^2b^2c^2m^2n^4xxx^n e^{(m\log(e) + m\log(x))} \\
& + 1584Ab^3c^2m^2n^4xxx^n e^{(m\log(e) + m\log(x))} + 1296Bb^3c^2m^2n^4xxx^n e^{(m\log(e) + m\log(x))} \\
& + 1404Aa^3d^2m^2n^4xxx^n e^{(m\log(e) + m\log(x))} + 1016Bba^3d^2m^2n^4xxx^n e^{(m\log(e) + m\log(x))} \\
& + 3048Aa^2b^2d^2m^2n^4xxx^n e^{(m\log(e) + m\log(x))} + 2376Bba^2b^2d^2m^2n^4xxx^n e^{(m\log(e) + m\log(x))} \\
& + 2376Aab^2d^2m^2n^4xxx^n e^{(m\log(e) + m\log(x))} + 1944Bba^2b^2d^2m^2n^4xxx^n e^{(m\log(e) + m\log(x))} \\
& + 648Ab^3d^2m^2n^4xxx^n e^{(m\log(e) + m\log(x))} + 548Bb^3d^2m^2n^4xxx^n e^{(m\log(e) + m\log(x))} \\
& + 720Bba^3c^2n^5xxx^n e^{(m\log(e) + m\log(x))} + 2160Aa^2b^2c^2n^5xxx^n e^{(m\log(e) + m\log(x))} \\
& + 1080Bba^2b^2c^2n^5xxx^n e^{(m\log(e) + m\log(x))} + 720Bba^2b^2c^2n^5xxx^n e^{(m\log(e) + m\log(x))} \\
& + 240Ab^3c^2n^5xxx^n e^{(m\log(e) + m\log(x))} + 180Bb^3c^2n^5xxx^n e^{(m\log(e) + m\log(x))} \\
& + 1440Aa^3c^2n^5xxx^n e^{(m\log(e) + m\log(x))} + 720Bba^3c^2n^5xxx^n e^{(m\log(e) + m\log(x))} \\
& + 2160Aa^2b^2c^2n^5xxx^n e^{(m\log(e) + m\log(x))} + 1440Bba^2b^2c^2n^5xxx^n e^{(m\log(e) + m\log(x))} \\
& + 1440Aab^2c^2n^5xxx^n e^{(m\log(e) + m\log(x))} + 1080Bba^2b^2c^2n^5xxx^n e^{(m\log(e) + m\log(x))} \\
& + 360Ab^3c^2n^5xxx^n e^{(m\log(e) + m\log(x))} + 288Bb^3c^2n^5xxx^n e^{(m\log(e) + m\log(x))} \\
& + 360Aa^3d^2n^5xxx^n e^{(m\log(e) + m\log(x))} + 240Bba^3d^2n^5xxx^n e^{(m\log(e) + m\log(x))}
\end{aligned}$$

$$\begin{aligned}
& m \log(x)) + 720Aa^2b^2d^2n^5xxx^n e^{(m \log(e) + m \log(x))} + 540B^2b^2 \\
& d^2n^5xxx^n e^{(m \log(e) + m \log(x))} + 540A^2a^2b^2d^2n^5xxx^n e^{(m \log(e) + m \log(x))} \\
& + 432B^2a^2b^2d^2n^5xxx^n e^{(m \log(e) + m \log(x))} + 144A^2a^2b^3d^2n^5xxx^n e^{(m \log(e) + m \log(x))} \\
& + 120B^2b^3d^2n^5xxx^n e^{(m \log(e) + m \log(x))} + 6A^2a^3c^2m^5xxe^{(m \log(e) + m \log(x))} \\
& + 6B^2a^3c^2m^5xxe^{(m \log(e) + m \log(x))} + 18A^2a^2b^2c^2m^5xxe^{(m \log(e) + m \log(x))} \\
& + 18B^2a^2b^2c^2m^5xxe^{(m \log(e) + m \log(x))} + 18A^2a^2b^2c^2m^5xxe^{(m \log(e) + m \log(x))} \\
& + 18B^2a^2b^2c^2m^5xxe^{(m \log(e) + m \log(x))} + 6A^2a^2b^3c^2m^5xxe^{(m \log(e) + m \log(x))} \\
& + 6B^2b^3c^2m^5xxe^{(m \log(e) + m \log(x))} + 12A^2a^3c^2d^2m^5xxe^{(m \log(e) + m \log(x))} \\
& + 12B^2a^3c^2d^2m^5xxe^{(m \log(e) + m \log(x))} + 36A^2a^2b^2c^2d^2m^5xxe^{(m \log(e) + m \log(x))} \\
& + 36B^2a^2b^2c^2d^2m^5xxe^{(m \log(e) + m \log(x))} + 36A^2a^2b^2c^2d^2m^5xxe^{(m \log(e) + m \log(x))} \\
& + 12A^2a^2b^3c^2d^2m^5xxe^{(m \log(e) + m \log(x))} + 12B^2b^3c^2d^2m^5xxe^{(m \log(e) + m \log(x))} \\
& + 6A^2a^3d^2m^5xxe^{(m \log(e) + m \log(x))} + 6B^2a^3d^2m^5xxe^{(m \log(e) + m \log(x))} \\
& + 18A^2a^2b^2d^2m^5xxe^{(m \log(e) + m \log(x))} + 18B^2a^2b^2d^2m^5xxe^{(m \log(e) + m \log(x))} \\
& + 18A^2a^2b^2d^2m^5xxe^{(m \log(e) + m \log(x))} + 18B^2a^2b^2d^2m^5xxe^{(m \log(e) + m \log(x))} \\
& + 18A^2a^2b^2d^2m^5xxe^{(m \log(e) + m \log(x))} + 18B^2a^2b^2d^2m^5xxe^{(m \log(e) + m \log(x))} \\
& + 6A^2a^2b^3d^2m^5xxe^{(m \log(e) + m \log(x))} + 6B^2b^3d^2m^5xxe^{(m \log(e) + m \log(x))} \\
& + 105A^2a^3c^2m^4n^xxe^{(m \log(e) + m \log(x))} + 100B^2a^3c^2m^4n^xxe^{(m \log(e) + m \log(x))} \\
& + 300A^2a^2b^2c^2m^4n^xxe^{(m \log(e) + m \log(x))} + 285B^2a^2b^2c^2m^4n^xxe^{(m \log(e) + m \log(x))} \\
& + 285A^2a^2b^2c^2m^4n^xxe^{(m \log(e) + m \log(x))} + 270B^2a^2b^2c^2m^4n^xxe^{(m \log(e) + m \log(x))} \\
& + 90A^2a^2b^3c^2m^4n^xxe^{(m \log(e) + m \log(x))} + 85B^2b^3c^2m^4n^xxe^{(m \log(e) + m \log(x))} \\
& + 200A^2a^3c^2d^2m^4n^xxe^{(m \log(e) + m \log(x))} + 190B^2a^3c^2d^2m^4n^xxe^{(m \log(e) + m \log(x))} \\
& + 570A^2a^2b^2c^2d^2m^4n^xxe^{(m \log(e) + m \log(x))} + 540B^2a^2b^2c^2d^2m^4n^xxe^{(m \log(e) + m \log(x))} \\
& + 540A^2a^2b^2c^2d^2m^4n^xxe^{(m \log(e) + m \log(x))} + 510B^2a^2b^2c^2d^2m^4n^xxe^{(m \log(e) + m \log(x))} \\
& + 170A^2a^2b^3c^2d^2m^4n^xxe^{(m \log(e) + m \log(x))} + 160B^2b^3c^2d^2m^4n^xxe^{(m \log(e) + m \log(x))} \\
& + 95A^2a^3d^2m^4n^xxe^{(m \log(e) + m \log(x))} + 90B^2a^3d^2m^4n^xxe^{(m \log(e) + m \log(x))} \\
& + 270A^2a^2b^2d^2m^4n^xxe^{(m \log(e) + m \log(x))} + 255B^2a^2b^2d^2m^4n^xxe^{(m \log(e) + m \log(x))} \\
& + 255A^2a^2b^2d^2m^4n^xxe^{(m \log(e) + m \log(x))} + 240B^2a^2b^2d^2m^4n^xxe^{(m \log(e) + m \log(x))} \\
& + 80A^2a^2b^3d^2m^4n^xxe^{(m \log(e) + m \log(x))} + 75B^2b^3d^2m^4n^xxe^{(m \log(e) + m \log(x))} \\
& + 700A^2a^3c^2m^3n^2xxe^{(m \log(e) + m \log(x))} + 620B^2a^3c^2m^3n^2xxe^{(m \log(e) + m \log(x))} \\
& + 1860A^2a^2b^2c^2m^3n^2xxe^{(m \log(e) + m \log(x))} + 1644B^2a^2b^2c^2m^3n^2xxe^{(m \log(e) + m \log(x))} \\
& + 1644A^2a^2b^2c^2m^3n^2xxe^{(m \log(e) + m \log(x))} + 1452B^2a^2b^2c^2m^3n^2xxe^{(m \log(e) + m \log(x))} \\
& + 484A^2a^2b^3c^2m^3n^2xxe^{(m \log(e) + m \log(x))} + 428B^2b^3c^2m^3n^2xxe^{(m \log(e) + m \log(x))} \\
& + 1240A^2a^3c^2d^2m^3n^2xxe^{(m \log(e) + m \log(x))} + 1096B^2a^3c^2d^2m^3n^2xxe^{(m \log(e) + m \log(x))} \\
& + 3288A^2a^2b^2c^2d^2m^3n^2xxe^{(m \log(e) + m \log(x))} + 2904B^2a^2b^2c^2d^2m^3n^2xxe^{(m \log(e) + m \log(x))} \\
& + 2904A^2a^2b^2c^2d^2m^3n^2xxe^{(m \log(e) + m \log(x))} + 2568B^2a^2b^2c^2d^2m^3n^2xxe^{(m \log(e) + m \log(x))} \\
& + 856A^2a^2b^3c^2d^2m^3n^2xxe^{(m \log(e) + m \log(x))} + 760B^2b^3c^2d^2m^3n^2xxe^{(m \log(e) + m \log(x))}
\end{aligned}$$

$$\begin{aligned} &m^3n^2xe^{(m\log(e) + m\log(x))} + 548Aa^3d^2m^3n^2xe^{(m\log(e) + m\log(x))} + 484Ba^3d^2m^3n^2xe^{(m\log(e) + m\log(x))} + 1452Aa^2bd^2m^3n^2xe^{(m\log(e) + m\log(x))} + 1284Bba^2bd^2m^3n^2xe^{(m\log(e) + m\log(x))} + 1284Aab^2d^2m^3n^2xe^{(m\log(e) + m\log(x))} + 1140Bab^2d^2m^3n^2xe^{(m\log(e) + m\log(x))} + 380Ab^3d^2m^3n^2xe^{(m\log(e) + m\log(x))} + 340Bb^3d^2m^3n^2xe^{(m\log(e) + m\log(x))} + 205Aa^3c^2m^2n^3xe^{(m\log(e) + m\log(x))} + 1740Ba^3c^2m^2n^3xe^{(m\log(e) + m\log(x))} + 5220Aa^2b^2c^2m^2n^3xe^{(m\log(e) + m\log(x))} + 4149Ba^2b^2c^2m^2n^3xe^{(m\log(e) + m\log(x))} + 4149Aab^2c^2m^2n^3xe^{(m\log(e) + m\log(x))} + 3348Bab^2c^2m^2n^3xe^{(m\log(e) + m\log(x))} + 1116Ab^3c^2m^2n^3xe^{(m\log(e) + m\log(x))} + 921Bb^3c^2m^2n^3xe^{(m\log(e) + m\log(x))} + 3480Aa^3cdm^2n^3xe^{(m\log(e) + m\log(x))} + 2766Ba^3cdm^2n^3xe^{(m\log(e) + m\log(x))} + 8298Aa^2b^2cdm^2n^3xe^{(m\log(e) + m\log(x))} + 6696Ba^2b^2cdm^2n^3xe^{(m\log(e) + m\log(x))} + 6696Aab^2cdm^2n^3xe^{(m\log(e) + m\log(x))} + 5526Bab^2cdm^2n^3xe^{(m\log(e) + m\log(x))} + 1842Ab^3cdm^2n^3xe^{(m\log(e) + m\log(x))} + 1383Aa^3d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 1116Ba^3d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 3348Aa^2bd^2m^2n^3xe^{(m\log(e) + m\log(x))} + 2763Ba^2bd^2m^2n^3xe^{(m\log(e) + m\log(x))} + 2763Aab^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 2340Bab^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 780Ab^3d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 675Bb^3d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 3248Aa^3c^2m^4n^4xe^{(m\log(e) + m\log(x))} + 2088Ba^3c^2m^4n^4xe^{(m\log(e) + m\log(x))} + 6264Aa^2b^2c^2m^4n^4xe^{(m\log(e) + m\log(x))} + 4212Ba^2b^2c^2m^4n^4xe^{(m\log(e) + m\log(x))} + 3048Bab^2c^2m^4n^4xe^{(m\log(e) + m\log(x))} + 1016Ab^3c^2m^4n^4xe^{(m\log(e) + m\log(x))} + 792Bb^3c^2m^4n^4xe^{(m\log(e) + m\log(x))} + 4176Aa^3cdm^4n^4xe^{(m\log(e) + m\log(x))} + 2808Ba^3cdm^4n^4xe^{(m\log(e) + m\log(x))} + 8424Aa^2b^2cdm^4n^4xe^{(m\log(e) + m\log(x))} + 6096Ba^2b^2cdm^4n^4xe^{(m\log(e) + m\log(x))} + 6096Aab^2cdm^4n^4xe^{(m\log(e) + m\log(x))} + 4752Bab^2cdm^4n^4xe^{(m\log(e) + m\log(x))} + 1584Ab^3cdm^4n^4xe^{(m\log(e) + m\log(x))} + 1296Bb^3cdm^4n^4xe^{(m\log(e) + m\log(x))} + 1404Aa^3d^2m^4n^4xe^{(m\log(e) + m\log(x))} + 1016Ba^3d^2m^4n^4xe^{(m\log(e) + m\log(x))} + 3048Aa^2bd^2m^4n^4xe^{(m\log(e) + m\log(x))} + 2376Ba^2bd^2m^4n^4xe^{(m\log(e) + m\log(x))} + 2376Aab^2d^2m^4n^4xe^{(m\log(e) + m\log(x))} + 1944Bab^2d^2m^4n^4xe^{(m\log(e) + m\log(x))} + 648Ab^3d^2m^4n^4xe^{(m\log(e) + m\log(x))} + 548Bb^3d^2m^4n^4xe^{(m\log(e) + m\log(x))} + 1764Aa^3c^2n^5xe^{(m\log(e) + m\log(x))} + 720Ba^3c^2n^5xe^{(m\log(e) + m\log(x))} + 2160Aa^2b^2c^2n^5xe^{(m\log(e) + m\log(x))} + 1080Ba^2b^2c^2n^5xe^{(m\log(e) + m\log(x))} + 1080Aab^2c^2n^5xe^{(m\log(e) + m\log(x))} + 720Bab^2c^2n^5xe^{(m\log(e) + m\log(x))} + 240Ab^3c^2n^5xe^{(m\log(e) + m\log(x))} + 180Bb^3c^2n^5xe^{(m\log(e) + m\log(x))} + 1440Aa^3cdn^5xe^{(m\log(e) + m\log(x))} + 720Ba^3cdn^5xe^{(m\log(e) + m\log(x))} + 2160Aa^2b^2$$

$b*c*d^n^5*x*e^{(m*\log(e) + m*\log(x))} + 1440*B*a^2*b*c*d^n^5*x*e^{(m*\log(e) + m*\log(x))} + 1440*A*a*b^2*c*d^n^5*x*e^{(m*\log(e) + m*\log(x))} + 1080*B*a*b^2*c*d^n^5*x*e^{(m*\log(e) + m*\log(x))} + 360*A*b^3*c*d^n^5*x*e^{(m*\log(e) + m*\log(x))} + 288*B*b^3*c*d^n^5*x*e^{(m*\log(e) + m*\log(x))} + 360*A*a^3*d^2*n^5*x*e^{(m*\log(e) + m*\log(x))} + 240*B*a^3*d^2*n^5*x*e^{(m*\log(e) + m*\log(x))} + 720*A*a^2*b*d^2*n^5*x*e^{(m*\log(e) + m*\log(x))} + 540*B*a^2*b*d^2*n^5*x*e^{(m*\log(e) + m*\log(x))} + 540*A*a*b^2*d^2*n^5*x*e^{(m*\log(e) + m*\log(x))} + 432*B*a*b^2*d^2*n^5*x*e^{(m*\log(e) + m*\log(x))} + 144*A*b^3*d^2*n^5*x*e^{(m*\log(e) + m*\log(x))} + 120*B*b^3*d^2*n^5*x*e^{(m*\log(e) + m*\log(x))} + 15*B*b^3*d^2*m^4*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 150*B*b^3*d^2*m^3*n*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 510*B*b^3*d^2*m^2*n^2*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 675*B*b^3*d^2*m*n^3*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 274*B*b^3*d^2*n^4*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 30*B*b^3*c*d*m^4*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 45*B*a*b^2*d^2*m^4*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 15*A*b^3*d^2*m^4*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 15*B*b^3*d^2*m^4*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 320*B*b^3*c*d*m^3*n*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 480*B*a*b^2*d^2*m^3*n*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 160*A*b^3*d^2*m^3*n*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 1140*B*b^3*c*d*m^2*n^2*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 1710*B*a*b^2*d^2*m^2*n^2*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 570*A*b^3*d^2*m^2*n^2*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 510*B*b^3*d^2*m^2*n^2*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 1560*B*b^3*c*d*m*n^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 2340*B*a*b^2*d^2*m*n^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 780*A*b^3*d^2*m*n^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 675*B*b^3*d^2*m*n^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 648*B*b^3*c*d*n^4*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 972*B*a*b^2*d^2*n^4*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 324*A*b^3*d^2*n^4*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 274*B*b^3*d^2*n^4*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 15*B*b^3*c^2*m^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 90*B*a*b^2*c*d*m^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 30*A*b^3*c*d*m^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 30*B*b^3*c*d*m^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 45*B*a^2*b*d^2*m^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 45*A*a*b^2*d^2*m^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 45*B*a*b^2*d^2*m^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 15*A*b^3*d^2*m^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 15*B*b^3*d^2*m^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 170*B*b^3*c^2*m^3*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 1020*B*a*b^2*c*d*m^3*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 340*A*b^3*c*d*m^3*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 320*B*b^3*c*d*m^3*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 510*B*a^2*b*d^2*m^3*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 510*A*a*b^2*d^2*m^3*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 480*B*a*b^2*d^2*m^3*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 160*A*b^3*d^2*m^3*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 150*B*b^3*d^2*m^3*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 642*B*b^3*c^2*m^2*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3852*B*a*b^2*c*d*m^2*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 1284*A*b^3*c*d*m^2*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 1140*B*b^3*c*d*m^2*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 1926*B*a^2*b*d^2*m^2*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 1926*A*a*b^2*d^2*m^2*n^2*x*$

$$\begin{aligned}
& x^{(4n)}e^{(m\log(e) + m\log(x))} + 1710*B*a*b^2*d^2*m^2*n^2*x*x^{(4n)}e^{(m\log(e) + m\log(x))} \\
& + 570*A*b^3*d^2*m^2*n^2*x*x^{(4n)}e^{(m\log(e) + m\log(x))} + 510*B*b^3*d^2*m^2*n^2*x*x^{(4n)}e^{(m\log(e) + m\log(x))} \\
& + 921*B*b^3*c^2*m^n^3*x*x^{(4n)}e^{(m\log(e) + m\log(x))} + 5526*B*a*b^2*c*d*m^n^3*x*x^{(4n)}e^{(m\log(e) + m\log(x))} \\
& + 1842*A*b^3*c*d*m^n^3*x*x^{(4n)}e^{(m\log(e) + m\log(x))} + 1560*B*b^3*c*d*m^n^3*x*x^{(4n)}e^{(m\log(e) + m\log(x))} \\
& + 2763*B*a^2*b*d^2*m^n^3*x*x^{(4n)}e^{(m\log(e) + m\log(x))} + 2763*A*a*b^2*d^2*m^n^3*x*x^{(4n)}e^{(m\log(e) + m\log(x))} \\
& + 2340*B*a*b^2*d^2*m^n^3*x*x^{(4n)}e^{(m\log(e) + m\log(x))} + 780*A*b^3*d^2*m^n^3*x*x^{(4n)}e^{(m\log(e) + m\log(x))} \\
& + 675*B*b^3*d^2*m^n^3*x*x^{(4n)}e^{(m\log(e) + m\log(x))} + 396*B*b^3*c^2*n^4*x*x^{(4n)}e^{(m\log(e) + m\log(x))} \\
& + 2376*B*a*b^2*c*d*n^4*x*x^{(4n)}e^{(m\log(e) + m\log(x))} + 792*A*b^3*c*d*n^4*x*x^{(4n)}e^{(m\log(e) + m\log(x))} \\
& + 648*B*b^3*c*d*n^4*x*x^{(4n)}e^{(m\log(e) + m\log(x))} + 1188*B*a^2*b*d^2*n^4*x*x^{(4n)}e^{(m\log(e) + m\log(x))} \\
& + 1188*A*a*b^2*d^2*n^4*x*x^{(4n)}e^{(m\log(e) + m\log(x))} + 972*B*a*b^2*d^2*n^4*x*x^{(4n)}e^{(m\log(e) + m\log(x))} \\
& + 324*A*b^3*d^2*n^4*x*x^{(4n)}e^{(m\log(e) + m\log(x))} + 274*B*b^3*d^2*n^4*x*x^{(4n)}e^{(m\log(e) + m\log(x))} \\
& + 45*B*a*b^2*c^2*m^4*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 15*A*b^3*c^2*m^4*x*x^{(3n)}e^{(m\log(e) + m\log(x))} \\
& + 15*B*b^3*c^2*m^4*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 90*B*a^2*b*c*d*m^4*x*x^{(3n)}e^{(m\log(e) + m\log(x))} \\
& + 90*A*a*b^2*c*d*m^4*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 90*B*a*b^2*c*d*m^4*x*x^{(3n)}e^{(m\log(e) + m\log(x))} \\
& + 30*A*b^3*c*d*m^4*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 30*B*b^3*c*d*m^4*x*x^{(3n)}e^{(m\log(e) + m\log(x))} \\
& + 15*B*a^3*d^2*m^4*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 45*A*a^2*b*d^2*m^4*x*x^{(3n)}e^{(m\log(e) + m\log(x))} \\
& + 45*B*a^2*b*d^2*m^4*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 45*A*a*b^2*d^2*m^4*x*x^{(3n)}e^{(m\log(e) + m\log(x))} \\
& + 45*B*a*b^2*d^2*m^4*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 15*A*b^3*d^2*m^4*x*x^{(3n)}e^{(m\log(e) + m\log(x))} \\
& + 15*B*b^3*d^2*m^4*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 540*B*a*b^2*c^2*m^3*n*x*x^{(3n)}e^{(m\log(e) + m\log(x))} \\
& + 180*A*b^3*c^2*m^3*n*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 170*B*b^3*c^2*m^3*n*x*x^{(3n)}e^{(m\log(e) + m\log(x))} \\
& + 1080*B*a^2*b*c*d*m^3*n*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 1080*A*a*b^2*c*d*m^3*n*x*x^{(3n)}e^{(m\log(e) + m\log(x))} \\
& + 1020*B*a*b^2*c*d*m^3*n*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 340*A*b^3*c*d*m^3*n*x*x^{(3n)}e^{(m\log(e) + m\log(x))} \\
& + 320*B*b^3*c*d*m^3*n*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 180*B*a^3*d^2*m^3*n*x*x^{(3n)}e^{(m\log(e) + m\log(x))} \\
& + 540*A*a^2*b*d^2*m^3*n*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 510*B*a^2*b*d^2*m^3*n*x*x^{(3n)}e^{(m\log(e) + m\log(x))} \\
& + 510*A*a*b^2*d^2*m^3*n*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 480*B*a*b^2*d^2*m^3*n*x*x^{(3n)}e^{(m\log(e) + m\log(x))} \\
& + 160*A*b^3*d^2*m^3*n*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 150*B*b^3*d^2*m^3*n*x*x^{(3n)}e^{(m\log(e) + m\log(x))} \\
& + 2178*B*a*b^2*c^2*m^2*n^2*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 726*A*b^3*c^2*m^2*n^2*x*x^{(3n)}e^{(m\log(e) + m\log(x))} \\
& + 642*B*b^3*c^2*m^2*n^2*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 4356*B*a^2*b*c*d*m^2*n^2*x*x^{(3n)}e^{(m\log(e) + m\log(x))} \\
& + 4356*A*a*b^2*c*d*m^2*n^2*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 3852*B*a*b^2*c*d*m^2*n^2*x*x^{(3n)}e^{(m\log(e) + m\log(x))} \\
& + 1284*A*b^3*c*d*m^2*n^2*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 1140*B*b^3*c*d*m^2*n^2*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 7
\end{aligned}$$

$26*B*a^3*d^2*m^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 2178*A*a^2*b*d^2*m^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1926*B*a^2*b*d^2*m^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1926*A*a*b^2*d^2*m^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1710*B*a*b^2*d^2*m^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 570*A*b^3*d^2*m^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 510*B*b^3*d^2*m^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3348*B*a*b^2*c^2*m*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1116*A*b^3*c^2*m*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 921*B*b^3*c^2*m*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 6696*B*a^2*b*c*d*m*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 6696*A*a*b^2*c*d*m*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 5526*B*a*b^2*c*d*m*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1842*A*b^3*c*d*m*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1560*B*b^3*c*d*m*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1116*B*a^3*d^2*m*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3348*A*a^2*b*d^2*m*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 2763*B*a^2*b*d^2*m*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 2763*A*a*b^2*d^2*m*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 2340*B*a*b^2*d^2*m*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 780*A*b^3*d^2*m*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 675*B*b^3*d^2*m*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1524*B*a*b^2*c^2*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 508*A*b^3*c^2*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 396*B*b^3*c^2*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3048*B*a^2*b*c*d*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3048*A*a*b^2*c*d*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 2376*B*a*b^2*c*d*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 792*A*b^3*c*d*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 648*B*b^3*c*d*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 508*B*a^3*d^2*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1524*A*a^2*b*d^2*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1188*B*a^2*b*d^2*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1188*A*a*b^2*d^2*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 972*B*a*b^2*d^2*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 324*A*b^3*d^2*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 274*B*b^3*d^2*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 45*B*a^2*b*c^2*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 45*A*a*b^2*c^2*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 45*B*a*b^2*c^2*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 15*A*b^3*c^2*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 15*B*b^3*c^2*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 30*B*a^3*c*d*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 90*A*a^2*b*c*d*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 90*B*a^2*b*c*d*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 90*A*a*b^2*c*d*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 90*B*a*b^2*c*d*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 30*A*b^3*c*d*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 30*B*b^3*c*d*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 15*A*a^3*d^2*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 15*B*a^3*d^2*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 45*A*a^2*b*d^2*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 45*B*a^2*b*d^2*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 45*A*a*b^2*d^2*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 45*B*a*b^2*d^2*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 15*A*b^3*d^2*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 15*B*b^3*d^2*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 570*B*a^2*b*c^2*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 570*A*a*b^2*c^2*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 540*B*a*b^2*c^2*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1$

$$\begin{aligned} & 80*A*b^3*c^2*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 170*B*b^3*c^2*m^3*n* \\ & x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 380*B*a^3*c*d*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) \\ & e) + m*\log(x))} + 1140*A*a^2*b*c*d*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + \\ & 1080*B*a^2*b*c*d*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1080*A*a*b^2*c* \\ & d*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1020*B*a*b^2*c*d*m^3*n*x*x^{(2*n)} \\ &)*e^{(m*\log(e) + m*\log(x))} + 340*A*b^3*c*d*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m* \\ & \log(x))} + 320*B*b^3*c*d*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 190*A*a^3*d \\ & ^2*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 180*B*a^3*d^2*m^3*n*x*x^{(2*n)} \\ & *e^{(m*\log(e) + m*\log(x))} + 540*A*a^2*b*d^2*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m* \\ & \log(x))} + 510*B*a^2*b*d^2*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 510*A*a \\ & *b^2*d^2*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 480*B*a*b^2*d^2*m^3*n*x* \\ & x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 160*A*b^3*d^2*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) \\ & + m*\log(x))} + 150*B*b^3*d^2*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 2466 \\ & *B*a^2*b*c^2*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 2466*A*a*b^2*c^2*m \\ & ^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 2178*B*a*b^2*c^2*m^2*n^2*x*x^{(2* \\ & n)}*e^{(m*\log(e) + m*\log(x))} + 726*A*b^3*c^2*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + \\ & m*\log(x))} + 642*B*b^3*c^2*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1644* \\ & B*a^3*c*d*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 4932*A*a^2*b*c*d*m^2* \\ & n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 4356*B*a^2*b*c*d*m^2*n^2*x*x^{(2*n)}* \\ & e^{(m*\log(e) + m*\log(x))} + 4356*A*a*b^2*c*d*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + \\ & m*\log(x))} + 3852*B*a*b^2*c*d*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 12 \\ & 84*A*b^3*c*d*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1140*B*b^3*c*d*m^2 \\ & *n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 822*A*a^3*d^2*m^2*n^2*x*x^{(2*n)}*e^{(\\ & m*\log(e) + m*\log(x))} + 726*B*a^3*d^2*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log \\ & (x))} + 2178*A*a^2*b*d^2*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1926*B* \\ & a^2*b*d^2*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1926*A*a*b^2*d^2*m^2* \\ & n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1710*B*a*b^2*d^2*m^2*n^2*x*x^{(2*n)}* \\ & e^{(m*\log(e) + m*\log(x))} + 570*A*b^3*d^2*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m* \\ & \log(x))} + 510*B*b^3*d^2*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 4149*B*a \\ & ^2*b*c^2*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 4149*A*a*b^2*c^2*m^n^3*x \\ & *x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3348*B*a*b^2*c^2*m^n^3*x*x^{(2*n)}*e^{(m*lo \\ & g(e) + m*\log(x))} + 1116*A*b^3*c^2*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + \\ & 921*B*b^3*c^2*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 2766*B*a^3*c*d*m^n \\ & ^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 8298*A*a^2*b*c*d*m^n^3*x*x^{(2*n)}*e^{(\\ & m*\log(e) + m*\log(x))} + 6696*B*a^2*b*c*d*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log \\ & (x))} + 6696*A*a*b^2*c*d*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 5526*B*a* \\ & b^2*c*d*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1842*A*b^3*c*d*m^n^3*x*x^{ \\ & (2*n)}*e^{(m*\log(e) + m*\log(x))} + 1560*B*b^3*c*d*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) \\ & + m*\log(x))} + 1383*A*a^3*d^2*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1116 \\ & *B*a^3*d^2*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3348*A*a^2*b*d^2*m^n^3 \\ & *x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 2763*B*a^2*b*d^2*m^n^3*x*x^{(2*n)}*e^{(m* \\ & \log(e) + m*\log(x))} + 2763*A*a*b^2*d^2*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x) \\ &)} + 2340*B*a*b^2*d^2*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 780*A*b^3*d \\ & ^2*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 675*B*b^3*d^2*m^n^3*x*x^{(2*n)}* \\ & e^{(m*\log(e) + m*\log(x))} + 2106*B*a^2*b*c^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*lo \end{aligned}$$

$g(x)) + 2106*A*a*b^2*c^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1524*B*a*b^2*c^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 508*A*b^3*c^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 396*B*b^3*c^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1404*B*a^3*c*d*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 4212*A*a^2*b*c*d*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3048*B*a^2*b*c*d*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3048*A*a*b^2*c*d*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 2376*B*a*b^2*c*d*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 792*A*b^3*c*d*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 648*B*b^3*c*d*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 702*A*a^3*d^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 508*B*a^3*d^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1524*A*a^2*b*d^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1188*B*a^2*b*d^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1188*A*a*b^2*d^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 972*B*a*b^2*d^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 324*A*b^3*d^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 274*B*b^3*d^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 15*B*a^3*c^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 45*A*a^2*b*c^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 45*B*a^2*b*c^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 45*A*a*b^2*c^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 45*B*a*b^2*c^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*A*b^3*c^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*B*b^3*c^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 30*A*a^3*c*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 30*B*a^3*c*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 90*A*a^2*b*c*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 90*B*a^2*b*c*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 90*A*a*b^2*c*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 90*B*a*b^2*c*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 30*A*b^3*c*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 30*B*b^3*c*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*A*a^3*d^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*B*a^3*d^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 45*A*a^2*b*d^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 45*B*a^2*b*d^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 45*A*a*b^2*d^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 45*B*a*b^2*d^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*A*b^3*d^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*B*b^3*d^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 200*B*a^3*c^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 600*A*a^2*b*c^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 570*B*a^2*b*c^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 570*A*a*b^2*c^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 540*B*a*b^2*c^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 180*A*b^3*c^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 170*B*b^3*c^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 400*A*a^3*c*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 380*B*a^3*c*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1140*A*a^2*b*c*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1080*B*a^2*b*c*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1080*A*a*b^2*c*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1020*B*a*b^2*c*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 340*A*b^3*c*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 320*B*b^3*c*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 190*A*a^3*d^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 180*B*a^3*d^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 540*A*a^2*b*d^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 510*B*a^2*b*d^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 510*A*a*b^2*d^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 480*B*a*b^2*d^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 160*A*b^3*d^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} +$

$$\begin{aligned}
& 2^n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + 508 * B * a^3 * d^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + 1524 * A * a^2 * b * d^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + 1188 * B * a^2 * b * d^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + 1188 * A * a * b^2 * d^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + 972 * B * a * b^2 * d^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + 324 * A * b^3 * d^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + 274 * B * b^3 * d^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + 15 * A * a^3 * c^2 * m^4 * x * e^{(m \log(e) + m \log(x))} + 15 * B * a^3 * c^2 * m^4 * x * e^{(m \log(e) + m \log(x))} + 45 * A * a^2 * b * c^2 * m^4 * x * e^{(m \log(e) + m \log(x))} + 45 * A * a * b^2 * c^2 * m^4 * x * e^{(m \log(e) + m \log(x))} + 45 * B * a^2 * b * c^2 * m^4 * x * e^{(m \log(e) + m \log(x))} + 45 * A * a * b^2 * c^2 * m^4 * x * e^{(m \log(e) + m \log(x))} + 45 * B * a * b^2 * c^2 * m^4 * x * e^{(m \log(e) + m \log(x))} + 15 * A * b^3 * c^2 * m^4 * x * e^{(m \log(e) + m \log(x))} + 15 * B * b^3 * c^2 * m^4 * x * e^{(m \log(e) + m \log(x))} + 30 * A * a^3 * c * d * m^4 * x * e^{(m \log(e) + m \log(x))} + 30 * B * a^3 * c * d * m^4 * x * e^{(m \log(e) + m \log(x))} + 90 * A * a^2 * b * c * d * m^4 * x * e^{(m \log(e) + m \log(x))} + 90 * B * a^2 * b * c * d * m^4 * x * e^{(m \log(e) + m \log(x))} + 90 * A * a * b^2 * c * d * m^4 * x * e^{(m \log(e) + m \log(x))} + 90 * B * a * b^2 * c * d * m^4 * x * e^{(m \log(e) + m \log(x))} + 30 * A * b^3 * c * d * m^4 * x * e^{(m \log(e) + m \log(x))} + 30 * B * b^3 * c * d * m^4 * x * e^{(m \log(e) + m \log(x))} + 15 * A * a^3 * d^2 * m^4 * x * e^{(m \log(e) + m \log(x))} + 15 * B * a^3 * d^2 * m^4 * x * e^{(m \log(e) + m \log(x))} + 45 * A * a^2 * b * d^2 * m^4 * x * e^{(m \log(e) + m \log(x))} + 45 * B * a^2 * b * d^2 * m^4 * x * e^{(m \log(e) + m \log(x))} + 45 * A * a * b^2 * d^2 * m^4 * x * e^{(m \log(e) + m \log(x))} + 45 * B * a * b^2 * d^2 * m^4 * x * e^{(m \log(e) + m \log(x))} + 15 * A * b^3 * d^2 * m^4 * x * e^{(m \log(e) + m \log(x))} + 15 * B * b^3 * d^2 * m^4 * x * e^{(m \log(e) + m \log(x))} + 210 * A * a^3 * c^2 * m^3 * n * x * e^{(m \log(e) + m \log(x))} + 200 * B * a^3 * c^2 * m^3 * n * x * e^{(m \log(e) + m \log(x))} + 600 * A * a^2 * b * c^2 * m^3 * n * x * e^{(m \log(e) + m \log(x))} + 570 * B * a^2 * b * c^2 * m^3 * n * x * e^{(m \log(e) + m \log(x))} + 540 * A * a * b^2 * c^2 * m^3 * n * x * e^{(m \log(e) + m \log(x))} + 180 * A * b^3 * c^2 * m^3 * n * x * e^{(m \log(e) + m \log(x))} + 170 * B * b^3 * c^2 * m^3 * n * x * e^{(m \log(e) + m \log(x))} + 400 * A * a^3 * c * d * m^3 * n * x * e^{(m \log(e) + m \log(x))} + 380 * B * a^3 * c * d * m^3 * n * x * e^{(m \log(e) + m \log(x))} + 1140 * A * a^2 * b * c * d * m^3 * n * x * e^{(m \log(e) + m \log(x))} + 1080 * B * a^2 * b * c * d * m^3 * n * x * e^{(m \log(e) + m \log(x))} + 1080 * A * a * b^2 * c * d * m^3 * n * x * e^{(m \log(e) + m \log(x))} + 1020 * B * a * b^2 * c * d * m^3 * n * x * e^{(m \log(e) + m \log(x))} + 340 * A * b^3 * c * d * m^3 * n * x * e^{(m \log(e) + m \log(x))} + 320 * B * b^3 * c * d * m^3 * n * x * e^{(m \log(e) + m \log(x))} + 190 * A * a^3 * d^2 * m^3 * n * x * e^{(m \log(e) + m \log(x))} + 180 * B * a^3 * d^2 * m^3 * n * x * e^{(m \log(e) + m \log(x))} + 540 * A * a^2 * b * d^2 * m^3 * n * x * e^{(m \log(e) + m \log(x))} + 510 * B * a^2 * b * d^2 * m^3 * n * x * e^{(m \log(e) + m \log(x))} + 510 * A * a * b^2 * d^2 * m^3 * n * x * e^{(m \log(e) + m \log(x))} + 480 * B * a * b^2 * d^2 * m^3 * n * x * e^{(m \log(e) + m \log(x))} + 160 * A * b^3 * d^2 * m^3 * n * x * e^{(m \log(e) + m \log(x))} + 150 * B * b^3 * d^2 * m^3 * n * x * e^{(m \log(e) + m \log(x))} + 1050 * A * a^3 * c^2 * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 930 * B * a^3 * c^2 * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 2790 * A * a^2 * b * c^2 * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 2466 * B * a^2 * b * c^2 * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 2466 * A * a * b^2 * c^2 * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 2178 * B * a * b^2 * c^2 * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 726 * A * b^3 * c^2 * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 642 * B * b^3 * c^2 * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 1860 * A * a^3 * c * d * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 1644 * B * a^3 * c * d * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 4932 * A * a^2 * b * c * d * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 4356 * B * a^2 * b * c * d * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 4356 * A * a * b^2 * c * d * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 3852 * B * a * b^2 * c * d * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))}
\end{aligned}$$

$$\begin{aligned}
& ^2n^2xe^{(m\log(e) + m\log(x))} + 1284*Ab^3c^2d^2m^2n^2xe^{(m\log(e) + m\log(x))} + 1140*Bb^3c^2d^2m^2n^2xe^{(m\log(e) + m\log(x))} + 822*Aa^3d^2 \\
& *m^2n^2xe^{(m\log(e) + m\log(x))} + 726*Bb^3d^2m^2n^2xe^{(m\log(e) + m\log(x))} + 2178*Aa^2b^2d^2m^2n^2xe^{(m\log(e) + m\log(x))} + 1926*Bb^2 \\
& *b^2d^2m^2n^2xe^{(m\log(e) + m\log(x))} + 1926*Aa^2b^2d^2m^2n^2xe^{(m\log(e) + m\log(x))} + 1710*Bb^2d^2m^2n^2xe^{(m\log(e) + m\log(x))} + 5 \\
& 70*Ab^3d^2m^2n^2xe^{(m\log(e) + m\log(x))} + 510*Bb^3d^2m^2n^2xe^{(m\log(e) + m\log(x))} + 2205*Aa^3c^2m^2n^3xe^{(m\log(e) + m\log(x))} + 17 \\
& 40*Bb^3c^2m^2n^3xe^{(m\log(e) + m\log(x))} + 5220*Aa^2b^2c^2m^2n^3xe^{(m\log(e) + m\log(x))} + 4149*Bb^2b^2c^2m^2n^3xe^{(m\log(e) + m\log(x))} + 4 \\
& 149*Aa^2b^2c^2m^2n^3xe^{(m\log(e) + m\log(x))} + 3348*Bb^2b^2c^2m^2n^3xe^{(m\log(e) + m\log(x))} + 1116*Ab^3c^2m^2n^3xe^{(m\log(e) + m\log(x))} + \\
& 921*Bb^3c^2m^2n^3xe^{(m\log(e) + m\log(x))} + 3480*Aa^3c^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 2766*Bb^3c^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 8298 \\
& *Aa^2b^2c^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 6696*Bb^2b^2c^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 6696*Aa^2b^2c^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 5 \\
& 526*Bb^2b^2c^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 1842*Ab^3c^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 1560*Bb^3c^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 13 \\
& 83*Aa^3d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 1116*Bb^3d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 3348*Aa^2b^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 276 \\
& 3*Bb^2b^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 2763*Aa^2b^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 2340*Bb^2b^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + \\
& 780*Ab^3d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 675*Bb^3d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 1624*Aa^3c^2n^4xe^{(m\log(e) + m\log(x))} + 1044*Bb \\
& a^3c^2n^4xe^{(m\log(e) + m\log(x))} + 3132*Aa^2b^2c^2n^4xe^{(m\log(e) + m\log(x))} + 2106*Bb^2b^2c^2n^4xe^{(m\log(e) + m\log(x))} + 2106*Aa^2b^2 \\
& *c^2n^4xe^{(m\log(e) + m\log(x))} + 1524*Bb^2b^2c^2n^4xe^{(m\log(e) + m\log(x))} + 508*Ab^3c^2n^4xe^{(m\log(e) + m\log(x))} + 396*Bb^3c^2n^4 \\
& xe^{(m\log(e) + m\log(x))} + 2088*Aa^3c^2d^2n^4xe^{(m\log(e) + m\log(x))} + 1404*Bb^3c^2d^2n^4xe^{(m\log(e) + m\log(x))} + 4212*Aa^2b^2c^2d^2n^4xe^{(m\log(e) + m\log(x))} + \\
& 3048*Bb^2b^2c^2d^2n^4xe^{(m\log(e) + m\log(x))} + 3048*Aa^2b^2c^2d^2n^4xe^{(m\log(e) + m\log(x))} + 2376*Bb^2b^2c^2d^2n^4xe^{(m\log(e) + m\log(x))} + 792*Ab^3c^2d^2n^4xe^{(m\log(e) + m\log(x))} + 648*Bb^3c^2 \\
& *d^2n^4xe^{(m\log(e) + m\log(x))} + 702*Aa^3d^2n^4xe^{(m\log(e) + m\log(x))} + 508*Bb^3d^2n^4xe^{(m\log(e) + m\log(x))} + 1524*Aa^2b^2d^2n^4xe^{(m\log(e) + m\log(x))} + \\
& 1188*Bb^2b^2d^2n^4xe^{(m\log(e) + m\log(x))} + 1188*Aa^2b^2d^2n^4xe^{(m\log(e) + m\log(x))} + 972*Bb^2b^2d^2n^4xe^{(m\log(e) + m\log(x))} + 324*Ab^3d^2n^4xe^{(m\log(e) + m\log(x))} + 274*Bb \\
& ^3d^2n^4xe^{(m\log(e) + m\log(x))} + 20*Bb^3d^2m^3xxx^{(6n)}e^{(m\log(e) + m\log(x))} + 150*Bb^3d^2m^2n^2xxx^{(6n)}e^{(m\log(e) + m\log(x))} + 34 \\
& 0*Bb^3d^2m^2n^2xxx^{(6n)}e^{(m\log(e) + m\log(x))} + 225*Bb^3d^2m^3xxx^{(6n)}e^{(m\log(e) + m\log(x))} + 40*Bb^3c^2d^2m^3xxx^{(5n)}e^{(m\log(e) + m\log(x))} + 60*Bb^3 \\
& *d^2m^3xxx^{(5n)}e^{(m\log(e) + m\log(x))} + 20*Aa^3d^2m^3xxx^{(5n)}e^{(m\log(e) + m\log(x))} + 20*Bb^3d^2m^3xxx^{(5n)}e^{(m\log(e) + m\log(x))} + 320*Bb^3c^2d^2m^2n^2xxx^{(5n)}e^{(m\log(e) + m\log(x))}
\end{aligned}$$

$$\begin{aligned}
& + 480*B*a*b^2*d^2*m^2*n*x*x^(5*n)*e^(m*log(e) + m*log(x)) + 160*A*b^3*d^2* \\
& m^2*n*x*x^(5*n)*e^(m*log(e) + m*log(x)) + 150*B*b^3*d^2*m^2*n*x*x^(5*n)*e^(\\
& m*log(e) + m*log(x)) + 760*B*b^3*c*d*m*n^2*x*x^(5*n)*e^(m*log(e) + m*log(x) \\
&) + 1140*B*a*b^2*d^2*m*n^2*x*x^(5*n)*e^(m*log(e) + m*log(x)) + 380*A*b^3*d^ \\
& 2*m*n^2*x*x^(5*n)*e^(m*log(e) + m*log(x)) + 340*B*b^3*d^2*m*n^2*x*x^(5*n)*e \\
& ^{(m*log(e) + m*log(x)) + 520*B*b^3*c*d*n^3*x*x^(5*n)*e^(m*log(e) + m*log(x) \\
&) + 780*B*a*b^2*d^2*n^3*x*x^(5*n)*e^(m*log(e) + m*log(x)) + 260*A*b^3*d^2*n \\
& ^3*x*x^(5*n)*e^(m*log(e) + m*log(x)) + 225*B*b^3*d^2*n^3*x*x^(5*n)*e^(m*log \\
& (e) + m*log(x)) + 20*B*b^3*c^2*m^3*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 120* \\
& B*a*b^2*c*d*m^3*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 40*A*b^3*c*d*m^3*x*x^(4 \\
& *n)*e^(m*log(e) + m*log(x)) + 40*B*b^3*c*d*m^3*x*x^(4*n)*e^(m*log(e) + m*lo \\
& g(x)) + 60*B*a^2*b*d^2*m^3*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 60*A*a*b^2*d \\
& ^2*m^3*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 60*B*a*b^2*d^2*m^3*x*x^(4*n)*e^(\\
& m*log(e) + m*log(x)) + 20*A*b^3*d^2*m^3*x*x^(4*n)*e^(m*log(e) + m*log(x)) + \\
& 20*B*b^3*d^2*m^3*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 170*B*b^3*c^2*m^2*n*x \\
& *x^(4*n)*e^(m*log(e) + m*log(x)) + 1020*B*a*b^2*c*d*m^2*n*x*x^(4*n)*e^(m*lo \\
& g(e) + m*log(x)) + 340*A*b^3*c*d*m^2*n*x*x^(4*n)*e^(m*log(e) + m*log(x)) + \\
& 320*B*b^3*c*d*m^2*n*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 510*B*a^2*b*d^2*m^2 \\
& *n*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 510*A*a*b^2*d^2*m^2*n*x*x^(4*n)*e^(m \\
& *log(e) + m*log(x)) + 480*B*a*b^2*d^2*m^2*n*x*x^(4*n)*e^(m*log(e) + m*log(x) \\
&)) + 160*A*b^3*d^2*m^2*n*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 150*B*b^3*d^2* \\
& m^2*n*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 428*B*b^3*c^2*m*n^2*x*x^(4*n)*e^(\\
& m*log(e) + m*log(x)) + 2568*B*a*b^2*c*d*m*n^2*x*x^(4*n)*e^(m*log(e) + m*log \\
& (x)) + 856*A*b^3*c*d*m*n^2*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 760*B*b^3*c* \\
& d*m*n^2*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 1284*B*a^2*b*d^2*m*n^2*x*x^(4*n \\
&)*e^(m*log(e) + m*log(x)) + 1284*A*a*b^2*d^2*m*n^2*x*x^(4*n)*e^(m*log(e) + \\
& m*log(x)) + 1140*B*a*b^2*d^2*m*n^2*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 380* \\
& A*b^3*d^2*m*n^2*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 340*B*b^3*d^2*m*n^2*x*x \\
& ^{(4*n)*e^(m*log(e) + m*log(x)) + 307*B*b^3*c^2*n^3*x*x^(4*n)*e^(m*log(e) + \\
& m*log(x)) + 1842*B*a*b^2*c*d*n^3*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 614*A* \\
& b^3*c*d*n^3*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 520*B*b^3*c*d*n^3*x*x^(4*n) \\
& *e^(m*log(e) + m*log(x)) + 921*B*a^2*b*d^2*n^3*x*x^(4*n)*e^(m*log(e) + m*lo \\
& g(x)) + 921*A*a*b^2*d^2*n^3*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 780*B*a*b^2 \\
& *d^2*n^3*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 260*A*b^3*d^2*n^3*x*x^(4*n)*e^ \\
& (m*log(e) + m*log(x)) + 225*B*b^3*d^2*n^3*x*x^(4*n)*e^(m*log(e) + m*log(x)) \\
& + 60*B*a*b^2*c^2*m^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 20*A*b^3*c^2*m^3* \\
& x*x^(3*n)*e^(m*log(e) + m*log(x)) + 20*B*b^3*c^2*m^3*x*x^(3*n)*e^(m*log(e) \\
& + m*log(x)) + 120*B*a^2*b*c*d*m^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 120*A \\
& *a*b^2*c*d*m^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 120*B*a*b^2*c*d*m^3*x*x^ \\
& (3*n)*e^(m*log(e) + m*log(x)) + 40*A*b^3*c*d*m^3*x*x^(3*n)*e^(m*log(e) + m* \\
& log(x)) + 40*B*b^3*c*d*m^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 20*B*a^3*d^2 \\
& *m^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 60*A*a^2*b*d^2*m^3*x*x^(3*n)*e^(m* \\
& log(e) + m*log(x)) + 60*B*a^2*b*d^2*m^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + \\
& 60*A*a*b^2*d^2*m^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 60*B*a*b^2*d^2*m^3* \\
& x*x^(3*n)*e^(m*log(e) + m*log(x)) + 20*A*b^3*d^2*m^3*x*x^(3*n)*e^(m*log(e)
\end{aligned}$$

$x)) + 60*A*a^2*b*d^2*m^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 60*B*a^2*b*d^2$
 $*m^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 60*A*a*b^2*d^2*m^3*x*x^{(2*n)}*e^{(m*$
 $\log(e) + m*\log(x))} + 60*B*a*b^2*d^2*m^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} +$
 $20*A*b^3*d^2*m^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 20*B*b^3*d^2*m^3*x*x^{$
 $(2*n)}*e^{(m*\log(e) + m*\log(x))} + 570*B*a^2*b*c^2*m^2*n*x*x^{(2*n)}*e^{(m*\log(e)$
 $+ m*\log(x))} + 570*A*a*b^2*c^2*m^2*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 54$
 $0*B*a*b^2*c^2*m^2*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 180*A*b^3*c^2*m^2*n$
 $*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 170*B*b^3*c^2*m^2*n*x*x^{(2*n)}*e^{(m*\log$
 $(e) + m*\log(x))} + 380*B*a^3*c*d*m^2*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1$
 $140*A*a^2*b*c*d*m^2*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1080*B*a^2*b*c*d*$
 $m^2*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1080*A*a*b^2*c*d*m^2*n*x*x^{(2*n)*$
 $e^{(m*\log(e) + m*\log(x))} + 1020*B*a*b^2*c*d*m^2*n*x*x^{(2*n)}*e^{(m*\log(e) + m*$
 $\log(x))} + 340*A*b^3*c*d*m^2*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 320*B*b^3$
 $*c*d*m^2*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 190*A*a^3*d^2*m^2*n*x*x^{(2*n)$
 $)e^{(m*\log(e) + m*\log(x))} + 180*B*a^3*d^2*m^2*n*x*x^{(2*n)}*e^{(m*\log(e) + m*l$
 $og(x))} + 540*A*a^2*b*d^2*m^2*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 510*B*a^$
 $2*b*d^2*m^2*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 510*A*a*b^2*d^2*m^2*n*x*x$
 $^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 480*B*a*b^2*d^2*m^2*n*x*x^{(2*n)}*e^{(m*\log(e)$
 $) + m*\log(x))} + 160*A*b^3*d^2*m^2*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 150$
 $*B*b^3*d^2*m^2*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1644*B*a^2*b*c^2*m*n^2$
 $*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1644*A*a*b^2*c^2*m*n^2*x*x^{(2*n)}*e^{(m*$
 $\log(e) + m*\log(x))} + 1452*B*a*b^2*c^2*m*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x)$
 $))} + 484*A*b^3*c^2*m*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 428*B*b^3*c^2*$
 $m*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1096*B*a^3*c*d*m*n^2*x*x^{(2*n)}*e^{$
 $(m*\log(e) + m*\log(x))} + 3288*A*a^2*b*c*d*m*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*lo$
 $g(x))} + 2904*B*a^2*b*c*d*m*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 2904*A*a$
 $*b^2*c*d*m*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 2568*B*a*b^2*c*d*m*n^2*x$
 $*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 856*A*b^3*c*d*m*n^2*x*x^{(2*n)}*e^{(m*\log(e)$
 $) + m*\log(x))} + 760*B*b^3*c*d*m*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 548$
 $*A*a^3*d^2*m*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 484*B*a^3*d^2*m*n^2*x*$
 $x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1452*A*a^2*b*d^2*m*n^2*x*x^{(2*n)}*e^{(m*\log$
 $(e) + m*\log(x))} + 1284*B*a^2*b*d^2*m*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))}$
 $+ 1284*A*a*b^2*d^2*m*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1140*B*a*b^2*d$
 $^2*m*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 380*A*b^3*d^2*m*n^2*x*x^{(2*n)*$
 $e^{(m*\log(e) + m*\log(x))} + 340*B*b^3*d^2*m*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log$
 $(x))} + 1383*B*a^2*b*c^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1383*A*a*b^$
 $2*c^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1116*B*a*b^2*c^2*n^3*x*x^{(2*n)$
 $)e^{(m*\log(e) + m*\log(x))} + 372*A*b^3*c^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log$
 $(x))} + 307*B*b^3*c^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 922*B*a^3*c*d*$
 $n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 2766*A*a^2*b*c*d*n^3*x*x^{(2*n)}*e^{(m$
 $*\log(e) + m*\log(x))} + 2232*B*a^2*b*c*d*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x)$
 $)} + 2232*A*a*b^2*c*d*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1842*B*a*b^2*c$
 $*d*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 614*A*b^3*c*d*n^3*x*x^{(2*n)}*e^{(m$
 $*\log(e) + m*\log(x))} + 520*B*b^3*c*d*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} +$
 $461*A*a^3*d^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 372*B*a^3*d^2*n^3*x*$

$$\begin{aligned}
& x^{(2n)}e^{(m\log(e) + m\log(x))} + 1116Aa^2b^2d^{2n}x^{(2n)}e^{(m\log(e) + m\log(x))} + 921Ba^2b^2d^{2n}x^{(2n)}e^{(m\log(e) + m\log(x))} + 921 \\
& *Aa^2b^2d^{2n}x^{(2n)}e^{(m\log(e) + m\log(x))} + 780Ba^2b^2d^{2n}x^{(2n)}e^{(m\log(e) + m\log(x))} + 260Aa^2b^3d^{2n}x^{(2n)}e^{(m\log(e) + m\log(x))} + 225Bb^3d^{2n}x^{(2n)}e^{(m\log(e) + m\log(x))} + 20Ba^3 \\
& *c^2m^3x^{(2n)}e^{(m\log(e) + m\log(x))} + 60Aa^2b^2c^2m^3x^{(2n)}e^{(m\log(e) + m\log(x))} + 60Ba^2b^2c^2m^3x^{(2n)}e^{(m\log(e) + m\log(x))} + 60Aa^2b^2c^2m^3x^{(2n)}e^{(m\log(e) + m\log(x))} + 60Ba^2b^2c^2m^3x^{(2n)}e^{(m\log(e) + m\log(x))} + 20Aa^2b^3c^2m^3x^{(2n)}e^{(m\log(e) + m\log(x))} + 20Bb^3c^2m^3x^{(2n)}e^{(m\log(e) + m\log(x))} + 40Aa^3c^2d^2m^3x^{(2n)}e^{(m\log(e) + m\log(x))} + 40Ba^3c^2d^2m^3x^{(2n)}e^{(m\log(e) + m\log(x))} + 120Aa^2 \\
& *b^2c^2d^2m^3x^{(2n)}e^{(m\log(e) + m\log(x))} + 120Ba^2b^2c^2d^2m^3x^{(2n)}e^{(m\log(e) + m\log(x))} + 120Aa^2b^2c^2d^2m^3x^{(2n)}e^{(m\log(e) + m\log(x))} + 40Aa^2b^3c^2d^2m^3x^{(2n)}e^{(m\log(e) + m\log(x))} + 40Bb^3c^2d^2m^3x^{(2n)}e^{(m\log(e) + m\log(x))} + 20Aa^3d^2m^3x^{(2n)}e^{(m\log(e) + m\log(x))} + 20Ba^3d^2m^3x^{(2n)}e^{(m\log(e) + m\log(x))} + 60Aa^2b^2d^2m^3x^{(2n)}e^{(m\log(e) + m\log(x))} + 60Ba^2b^2d^2m^3x^{(2n)}e^{(m\log(e) + m\log(x))} + 60Aa^2b^2d^2m^3x^{(2n)}e^{(m\log(e) + m\log(x))} + 60Ba^2b^2d^2m^3x^{(2n)}e^{(m\log(e) + m\log(x))} + 20Aa^2b^3d^2m^3x^{(2n)}e^{(m\log(e) + m\log(x))} + 20Bb^3d^2m^3x^{(2n)}e^{(m\log(e) + m\log(x))} + 200Ba^3c^2m^2n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 600Aa^2b^2c^2m^2n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 570Ba^2b^2c^2m^2n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 570Aa^2b^2c^2m^2n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 540Ba^2b^2c^2m^2n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 180Aa^2b^3c^2m^2n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 170Bb^3c^2m^2n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 400Aa^3c^2d^2m^2n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 380Ba^3c^2d^2m^2n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 1140Aa^2b^2c^2d^2m^2n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 1080Ba^2b^2c^2d^2m^2n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 1080Aa^2b^2c^2d^2m^2n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 1020Ba^2b^2c^2d^2m^2n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 340Aa^2b^3c^2d^2m^2n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 320Bb^3c^2d^2m^2n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 190Aa^3d^2m^2n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 180Ba^3d^2m^2n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 540Aa^2b^2d^2m^2n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 510Ba^2b^2d^2m^2n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 510Aa^2b^2d^2m^2n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 480Ba^2b^2d^2m^2n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 160Aa^2b^3d^2m^2n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 150Bb^3d^2m^2n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 620Ba^3c^2m^2n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 1860Aa^2b^2c^2m^2n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 1644Ba^2b^2c^2m^2n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 1644Aa^2b^2c^2m^2n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 1452Ba^2b^2c^2m^2n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 484Aa^2b^3c^2m^2n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 428Bb^3c^2m^2n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 1240Aa^3c^2d^2m^2n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 1096Ba^3c^2d^2m^2n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 3288Aa^2b^2c^2d^2m^2n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 2904Ba^2b^2c^2d^2m^2n^2x^{(2n)}e^{(m\log(e) + m\log(x))} + 2904Aa^2b^2c^2d^2m^2n^2x^{(2n)}e^{(m\log(e) + m\log(x))}
\end{aligned}$$

$(e) + m \log(x)) + 2568 * B * a * b^2 * c * d * m * n^2 * x * x^n * e^{(m \log(e) + m \log(x))} + 85$
 $6 * A * b^3 * c * d * m * n^2 * x * x^n * e^{(m \log(e) + m \log(x))} + 760 * B * b^3 * c * d * m * n^2 * x * x^n$
 $* e^{(m \log(e) + m \log(x))} + 548 * A * a^3 * d^2 * m * n^2 * x * x^n * e^{(m \log(e) + m \log(x))}$
 $) + 484 * B * a^3 * d^2 * m * n^2 * x * x^n * e^{(m \log(e) + m \log(x))} + 1452 * A * a^2 * b * d^2 * m * n^2$
 $* x * x^n * e^{(m \log(e) + m \log(x))} + 1284 * B * a^2 * b * d^2 * m * n^2 * x * x^n * e^{(m \log(e)$
 $) + m \log(x))} + 1284 * A * a * b^2 * d^2 * m * n^2 * x * x^n * e^{(m \log(e) + m \log(x))} + 1140$
 $* B * a * b^2 * d^2 * m * n^2 * x * x^n * e^{(m \log(e) + m \log(x))} + 380 * A * b^3 * d^2 * m * n^2 * x * x^n$
 $* e^{(m \log(e) + m \log(x))} + 340 * B * b^3 * d^2 * m * n^2 * x * x^n * e^{(m \log(e) + m \log(x))}$
 $) + 580 * B * a^3 * c^2 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 1740 * A * a^2 * b * c^2 * n^3$
 $* x * x^n * e^{(m \log(e) + m \log(x))} + 1383 * B * a^2 * b * c^2 * n^3 * x * x^n * e^{(m \log(e) + m$
 $* \log(x))} + 1383 * A * a * b^2 * c^2 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 1116 * B * a * b^2$
 $* c^2 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 372 * A * b^3 * c^2 * n^3 * x * x^n * e^{(m \log(e)$
 $e) + m \log(x))} + 307 * B * b^3 * c^2 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 1160 * A * a^3$
 $* c * d * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 922 * B * a^3 * c * d * n^3 * x * x^n * e^{(m \log$
 $(e) + m \log(x))} + 2766 * A * a^2 * b * c * d * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 2232$
 $* B * a^2 * b * c * d * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 2232 * A * a * b^2 * c * d * n^3 * x * x^n$
 $* e^{(m \log(e) + m \log(x))} + 1842 * B * a * b^2 * c * d * n^3 * x * x^n * e^{(m \log(e) + m \log(x))}$
 $) + 614 * A * b^3 * c * d * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 520 * B * b^3 * c * d * n^3 * x * x^n$
 $* e^{(m \log(e) + m \log(x))} + 461 * A * a^3 * d^2 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))}$
 $) + 372 * B * a^3 * d^2 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 1116 * A * a^2 * b * d^2 * n^3$
 $* x * x^n * e^{(m \log(e) + m \log(x))} + 921 * B * a^2 * b * d^2 * n^3 * x * x^n * e^{(m \log(e) + m$
 $\log(x))} + 921 * A * a * b^2 * d^2 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 780 * B * a * b^2 * d^2$
 $* n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 260 * A * b^3 * d^2 * n^3 * x * x^n * e^{(m \log(e)$
 $+ m \log(x))} + 225 * B * b^3 * d^2 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 20 * A * a^3 * c^2$
 $* m^3 * x * e^{(m \log(e) + m \log(x))} + 20 * B * a^3 * c^2 * m^3 * x * e^{(m \log(e) + m \log(x))}$
 $) + 60 * A * a^2 * b * c^2 * m^3 * x * e^{(m \log(e) + m \log(x))} + 60 * B * a^2 * b * c^2 * m^3 * x * e^{($
 $m \log(e) + m \log(x))} + 60 * A * a * b^2 * c^2 * m^3 * x * e^{(m \log(e) + m \log(x))} + 60 * B * a$
 $* b^2 * c^2 * m^3 * x * e^{(m \log(e) + m \log(x))} + 20 * A * b^3 * c^2 * m^3 * x * e^{(m \log(e) +$
 $m \log(x))} + 20 * B * b^3 * c^2 * m^3 * x * e^{(m \log(e) + m \log(x))} + 40 * A * a^3 * c * d * m^3 * x$
 $* e^{(m \log(e) + m \log(x))} + 40 * B * a^3 * c * d * m^3 * x * e^{(m \log(e) + m \log(x))} + 120$
 $* A * a^2 * b * c * d * m^3 * x * e^{(m \log(e) + m \log(x))} + 120 * B * a^2 * b * c * d * m^3 * x * e^{(m \log$
 $(e) + m \log(x))} + 120 * A * a * b^2 * c * d * m^3 * x * e^{(m \log(e) + m \log(x))} + 120 * B * a * b$
 $^2 * c * d * m^3 * x * e^{(m \log(e) + m \log(x))} + 40 * A * b^3 * c * d * m^3 * x * e^{(m \log(e) + m \log$
 $(x))} + 40 * B * b^3 * c * d * m^3 * x * e^{(m \log(e) + m \log(x))} + 20 * A * a^3 * d^2 * m^3 * x * e^{($
 $m \log(e) + m \log(x))} + 20 * B * a^3 * d^2 * m^3 * x * e^{(m \log(e) + m \log(x))} + 60 * A * a^2$
 $* b * d^2 * m^3 * x * e^{(m \log(e) + m \log(x))} + 60 * B * a^2 * b * d^2 * m^3 * x * e^{(m \log(e) +$
 $m \log(x))} + 60 * A * a * b^2 * d^2 * m^3 * x * e^{(m \log(e) + m \log(x))} + 60 * B * a * b^2 * d^2$
 $* m^3 * x * e^{(m \log(e) + m \log(x))} + 20 * A * b^3 * d^2 * m^3 * x * e^{(m \log(e) + m \log(x))}$
 $+ 20 * B * b^3 * d^2 * m^3 * x * e^{(m \log(e) + m \log(x))} + 210 * A * a^3 * c^2 * m^2 * n * x * e^{(m \log$
 $(e) + m \log(x))} + 200 * B * a^3 * c^2 * m^2 * n * x * e^{(m \log(e) + m \log(x))} + 600 * A * a^2$
 $* b * c^2 * m^2 * n * x * e^{(m \log(e) + m \log(x))} + 570 * B * a^2 * b * c^2 * m^2 * n * x * e^{(m \log$
 $(e) + m \log(x))} + 570 * A * a * b^2 * c^2 * m^2 * n * x * e^{(m \log(e) + m \log(x))} + 540 * B * a$
 $* b^2 * c^2 * m^2 * n * x * e^{(m \log(e) + m \log(x))} + 180 * A * b^3 * c^2 * m^2 * n * x * e^{(m \log(e)$
 $) + m \log(x))} + 170 * B * b^3 * c^2 * m^2 * n * x * e^{(m \log(e) + m \log(x))} + 400 * A * a^3 * c$
 $* d * m^2 * n * x * e^{(m \log(e) + m \log(x))} + 380 * B * a^3 * c * d * m^2 * n * x * e^{(m \log(e) + m$

$\log(x)) + 1140*A*a^2*b*c*d*m^2*n*x*e^{(m*\log(e) + m*\log(x))} + 1080*B*a^2*b*c$
 $*d*m^2*n*x*e^{(m*\log(e) + m*\log(x))} + 1080*A*a*b^2*c*d*m^2*n*x*e^{(m*\log(e) +$
 $m*\log(x))} + 1020*B*a*b^2*c*d*m^2*n*x*e^{(m*\log(e) + m*\log(x))} + 340*A*b^3*c$
 $*d*m^2*n*x*e^{(m*\log(e) + m*\log(x))} + 320*B*b^3*c*d*m^2*n*x*e^{(m*\log(e) + m*$
 $\log(x))} + 190*A*a^3*d^2*m^2*n*x*e^{(m*\log(e) + m*\log(x))} + 180*B*a^3*d^2*m^2$
 $*n*x*e^{(m*\log(e) + m*\log(x))} + 540*A*a^2*b*d^2*m^2*n*x*e^{(m*\log(e) + m*\log(x))}$
 $+ 510*B*a^2*b*d^2*m^2*n*x*e^{(m*\log(e) + m*\log(x))} + 510*A*a*b^2*d^2*m^2$
 $*n*x*e^{(m*\log(e) + m*\log(x))} + 480*B*a*b^2*d^2*m^2*n*x*e^{(m*\log(e) + m*\log(x))}$
 $+ 160*A*b^3*d^2*m^2*n*x*e^{(m*\log(e) + m*\log(x))} + 150*B*b^3*d^2*m^2*n*x$
 $*e^{(m*\log(e) + m*\log(x))} + 700*A*a^3*c^2*m*n^2*x*e^{(m*\log(e) + m*\log(x))} +$
 $620*B*a^3*c^2*m*n^2*x*e^{(m*\log(e) + m*\log(x))} + 1860*A*a^2*b*c^2*m*n^2*x*e^{(m*\log(e) +$
 $m*\log(x))} + 1644*B*a^2*b*c^2*m*n^2*x*e^{(m*\log(e) + m*\log(x))} + 1644*A*a*b^2*c^2*m*n^2*x$
 $*e^{(m*\log(e) + m*\log(x))} + 1452*B*a*b^2*c^2*m*n^2*x$
 $*e^{(m*\log(e) + m*\log(x))} + 484*A*b^3*c^2*m*n^2*x*e^{(m*\log(e) + m*\log(x))} +$
 $428*B*b^3*c^2*m*n^2*x*e^{(m*\log(e) + m*\log(x))} + 1240*A*a^3*c*d*m*n^2*x*e^{(m$
 $*\log(e) + m*\log(x))} + 1096*B*a^3*c*d*m*n^2*x*e^{(m*\log(e) + m*\log(x))} + 3288$
 $*A*a^2*b*c*d*m*n^2*x*e^{(m*\log(e) + m*\log(x))} + 2904*B*a^2*b*c*d*m*n^2*x*e^{($
 $m*\log(e) + m*\log(x))} + 2904*A*a*b^2*c*d*m*n^2*x*e^{(m*\log(e) + m*\log(x))} + 2$
 $568*B*a*b^2*c*d*m*n^2*x*e^{(m*\log(e) + m*\log(x))} + 856*A*b^3*c*d*m*n^2*x*e^{($
 $m*\log(e) + m*\log(x))} + 760*B*b^3*c*d*m*n^2*x*e^{(m*\log(e) + m*\log(x))} + 548*$
 $A*a^3*d^2*m*n^2*x*e^{(m*\log(e) + m*\log(x))} + 484*B*a^3*d^2*m*n^2*x*e^{(m*\log(e)$
 $+ m*\log(x))} + 1452*A*a^2*b*d^2*m*n^2*x*e^{(m*\log(e) + m*\log(x))} + 1284*B*$
 $a^2*b*d^2*m*n^2*x*e^{(m*\log(e) + m*\log(x))} + 1284*A*a*b^2*d^2*m*n^2*x*e^{(m*$
 $\log(e) + m*\log(x))} + 1140*B*a*b^2*d^2*m*n^2*x*e^{(m*\log(e) + m*\log(x))} + 380*$
 $A*b^3*d^2*m*n^2*x*e^{(m*\log(e) + m*\log(x))} + 340*B*b^3*d^2*m*n^2*x*e^{(m*\log(e)$
 $+ m*\log(x))} + 735*A*a^3*c^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 580*B*a^3*c^2$
 $*n^3*x*e^{(m*\log(e) + m*\log(x))} + 1740*A*a^2*b*c^2*n^3*x*e^{(m*\log(e) + m*$
 $\log(x))} + 1383*B*a^2*b*c^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 1383*A*a*b^2*c^2*n$
 $^3*x*e^{(m*\log(e) + m*\log(x))} + 1116*B*a*b^2*c^2*n^3*x*e^{(m*\log(e) + m*\log(x))}$
 $+ 372*A*b^3*c^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 307*B*b^3*c^2*n^3*x*e^{(m$
 $*\log(e) + m*\log(x))} + 1160*A*a^3*c*d*n^3*x*e^{(m*\log(e) + m*\log(x))} + 922*B*$
 $a^3*c*d*n^3*x*e^{(m*\log(e) + m*\log(x))} + 2766*A*a^2*b*c*d*n^3*x*e^{(m*\log(e)$
 $+ m*\log(x))} + 2232*B*a^2*b*c*d*n^3*x*e^{(m*\log(e) + m*\log(x))} + 2232*A*a*b^2$
 $*c*d*n^3*x*e^{(m*\log(e) + m*\log(x))} + 1842*B*a*b^2*c*d*n^3*x*e^{(m*\log(e) + m$
 $*\log(x))} + 614*A*b^3*c*d*n^3*x*e^{(m*\log(e) + m*\log(x))} + 520*B*b^3*c*d*n^3*$
 $x*e^{(m*\log(e) + m*\log(x))} + 461*A*a^3*d^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 3$
 $72*B*a^3*d^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 1116*A*a^2*b*d^2*n^3*x*e^{(m*$
 $\log(e) + m*\log(x))} + 921*B*a^2*b*d^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 921*A*a*$
 $b^2*d^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 780*B*a*b^2*d^2*n^3*x*e^{(m*\log(e) +$
 $m*\log(x))} + 260*A*b^3*d^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 225*B*b^3*d^2*n^3$
 $*x*e^{(m*\log(e) + m*\log(x))} + 15*B*b^3*d^2*m^2*x*x^{(6*n)}*e^{(m*\log(e) + m*$
 $\log(x))} + 75*B*b^3*d^2*m*n*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 85*B*b^3*d^2*n$
 $^2*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 30*B*b^3*c*d*m^2*x*x^{(5*n)}*e^{(m*\log(e)$
 $+ m*\log(x))} + 45*B*a*b^2*d^2*m^2*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 15*$
 $A*b^3*d^2*m^2*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 15*B*b^3*d^2*m^2*x*x^{(5*n)}$

$$\begin{aligned}
&) * e^{(m \log(e) + m \log(x))} + 160 * B * b^3 * c * d * m * n * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 240 * B * a * b^2 * d^2 * m * n * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 80 * A * b^3 * d^2 * \\
& * m * n * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 75 * B * b^3 * d^2 * m * n * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 190 * B * b^3 * c * d * n^2 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 28 \\
& 5 * B * a * b^2 * d^2 * n^2 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 95 * A * b^3 * d^2 * n^2 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 85 * B * b^3 * d^2 * n^2 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 15 * B * b^3 * c^2 * m^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 90 * B * a * b^2 * c * d * m^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 30 * A * b^3 * c * d * m^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 30 * B * b^3 * c * d * m^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 4 \\
& 5 * B * a^2 * b * d^2 * m^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 45 * A * a * b^2 * d^2 * m^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 45 * B * a * b^2 * d^2 * m^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 15 * A * b^3 * d^2 * m^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 15 * B * b^3 * d^2 * m^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 85 * B * b^3 * c^2 * m * n * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 510 * B * a * b^2 * c * d * m * n * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 170 * A * b^3 * c * d * m * n * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 160 * B * b^3 * c * d * m * n * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 255 * B * a^2 * b * d^2 * m * n * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 255 * A * a * b^2 * d^2 * m * n * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 2 \\
& 40 * B * a * b^2 * d^2 * m * n * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 80 * A * b^3 * d^2 * m * n * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 75 * B * b^3 * d^2 * m * n * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 107 * B * b^3 * c^2 * n^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 642 * B * a * b^2 * c * d * n^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 214 * A * b^3 * c * d * n^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 190 * B * b^3 * c * d * n^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 321 * B * a^2 * b * d^2 * n^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 321 * A * a * b^2 * d^2 * n^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 285 * B * a * b^2 * d^2 * n^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 95 * A * b^3 * d^2 * n^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 85 * B * b^3 * d^2 * n^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 45 * B * a * b^2 * c^2 * m^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 15 * A * b^3 * c^2 * m^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 15 * B * b^3 * c^2 * m^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 90 * B * a^2 * b * c * d * m^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 90 * A * a * b^2 * c * d * m^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 90 * B * a * b^2 * c * d * m^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 30 * A * b^3 * c * d * m^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 30 * B * b^3 * c * d * m^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 15 * B * a^3 * d^2 * m^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 45 * A * a^2 * b * d^2 * m^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 45 * B * a^2 * b * d^2 * m^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 45 * A * a * b^2 * d^2 * m^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 45 * B * a * b^2 * d^2 * m^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 15 * A * b^3 * d^2 * m^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 15 * B * b^3 * d^2 * m^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 270 * B * a * b^2 * c^2 * m * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 90 * A * b^3 * c^2 * m * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 85 * B * b^3 * c^2 * m * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 540 * B * a^2 * b * c * d * m * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 540 * A * a * b^2 * c * d * m * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 510 * B * a * b^2 * c * d * m * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 170 * A * b^3 * c * d * m * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 160 * B * b^3 * c * d * m * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 90 * B * a^3 * d^2 * m * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 270 * A * a^2 * b * d^2 * m * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 255 * B * a^2 * b * d^2 * m * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 255 * A * a * b^2 * d^2 * m * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 255 * A * a * b^2 * d^2 * m * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))}
\end{aligned}$$

$$\begin{aligned}
& m \log(e) + m \log(x) + 240 * B * a * b^2 * d^2 * m * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 80 * A * b^3 * d^2 * m * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 75 * B * b^3 * d^2 * m * n * x \\
& * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 363 * B * a * b^2 * c^2 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) \\
& + m \log(x))} + 121 * A * b^3 * c^2 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 107 * B \\
& * b^3 * c^2 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 726 * B * a^2 * b * c * d * n^2 * x * x^{(3 \\
& * n)} * e^{(m \log(e) + m \log(x))} + 726 * A * a * b^2 * c * d * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \\
& * \log(x))} + 642 * B * a * b^2 * c * d * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 214 * A * b^3 \\
& * c * d * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 190 * B * b^3 * c * d * n^2 * x * x^{(3 * n)} * e \\
& ^{(m \log(e) + m \log(x))} + 121 * B * a^3 * d^2 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 363 * A * a^2 * b * d^2 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 321 * B * a^2 * b * d^2 \\
& * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 321 * A * a * b^2 * d^2 * n^2 * x * x^{(3 * n)} * e^{(m \\
& * \log(e) + m \log(x))} + 285 * B * a * b^2 * d^2 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 95 * A * b^3 * d^2 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 85 * B * b^3 * d^2 * n^2 * x * x \\
& ^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 45 * B * a^2 * b * c^2 * m^2 * x * x^{(2 * n)} * e^{(m \log(e) \\
& + m \log(x))} + 45 * A * a * b^2 * c^2 * m^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 45 * B * a \\
& * b^2 * c^2 * m^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 15 * A * b^3 * c^2 * m^2 * x * x^{(2 * n)} \\
& * e^{(m \log(e) + m \log(x))} + 15 * B * b^3 * c^2 * m^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 30 * B * a^3 * c * d * m^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 90 * A * a^2 * b * c * d * m^2 \\
& * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 90 * B * a^2 * b * c * d * m^2 * x * x^{(2 * n)} * e^{(m \log \\
& (e) + m \log(x))} + 90 * A * a * b^2 * c * d * m^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 90 \\
& * B * a * b^2 * c * d * m^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 30 * A * b^3 * c * d * m^2 * x * x^{(\\
& 2 * n)} * e^{(m \log(e) + m \log(x))} + 30 * B * b^3 * c * d * m^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log \\
& (x))} + 15 * A * a^3 * d^2 * m^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 15 * B * a^3 * d^2 * m \\
& ^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 45 * A * a^2 * b * d^2 * m^2 * x * x^{(2 * n)} * e^{(m \log \\
& (e) + m \log(x))} + 45 * B * a^2 * b * d^2 * m^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + \\
& 45 * A * a * b^2 * d^2 * m^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 45 * B * a * b^2 * d^2 * m^2 * x \\
& * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 15 * A * b^3 * d^2 * m^2 * x * x^{(2 * n)} * e^{(m \log(e) + \\
& m \log(x))} + 15 * B * b^3 * d^2 * m^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 285 * B * a^2 \\
& * b * c^2 * m * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 285 * A * a * b^2 * c^2 * m * n * x * x^{(2 * n)} \\
& * e^{(m \log(e) + m \log(x))} + 270 * B * a * b^2 * c^2 * m * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log \\
& (x))} + 90 * A * b^3 * c^2 * m * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 85 * B * b^3 * c^2 * m \\
& * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 190 * B * a^3 * c * d * m * n * x * x^{(2 * n)} * e^{(m \log \\
& (e) + m \log(x))} + 570 * A * a^2 * b * c * d * m * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + \\
& 540 * B * a^2 * b * c * d * m * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 540 * A * a * b^2 * c * d * m * n \\
& * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 510 * B * a * b^2 * c * d * m * n * x * x^{(2 * n)} * e^{(m \log \\
& (e) + m \log(x))} + 170 * A * b^3 * c * d * m * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 160 \\
& * B * b^3 * c * d * m * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 95 * A * a^3 * d^2 * m * n * x * x^{(2 * \\
& n)} * e^{(m \log(e) + m \log(x))} + 90 * B * a^3 * d^2 * m * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log \\
& (x))} + 270 * A * a^2 * b * d^2 * m * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 255 * B * a^2 * b * \\
& d^2 * m * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 255 * A * a * b^2 * d^2 * m * n * x * x^{(2 * n)} * e \\
& ^{(m \log(e) + m \log(x))} + 240 * B * a * b^2 * d^2 * m * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 80 * A * b^3 * d^2 * m * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 75 * B * b^3 * d^2 * m * n \\
& * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 411 * B * a^2 * b * c^2 * n^2 * x * x^{(2 * n)} * e^{(m \log \\
& (e) + m \log(x))} + 411 * A * a * b^2 * c^2 * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 3 \\
& 63 * B * a * b^2 * c^2 * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 121 * A * b^3 * c^2 * n^2 * x *
\end{aligned}$$

$$\begin{aligned}
& x^{(2n)}e^{(m\log(e) + m\log(x))} + 107*B*b^3*c^2*n^2*x*x^{(2n)}e^{(m\log(e) + m\log(x))} + 274*B*a^3*c*d*n^2*x*x^{(2n)}e^{(m\log(e) + m\log(x))} + 822*A*a^2*b*c*d*n^2*x*x^{(2n)}e^{(m\log(e) + m\log(x))} + 726*B*a^2*b*c*d*n^2*x*x^{(2n)}e^{(m\log(e) + m\log(x))} + 726*A*a*b^2*c*d*n^2*x*x^{(2n)}e^{(m\log(e) + m\log(x))} + 642*B*a*b^2*c*d*n^2*x*x^{(2n)}e^{(m\log(e) + m\log(x))} + 214*A*b^3*c*d*n^2*x*x^{(2n)}e^{(m\log(e) + m\log(x))} + 190*B*b^3*c*d*n^2*x*x^{(2n)}e^{(m\log(e) + m\log(x))} + 137*A*a^3*d^2*n^2*x*x^{(2n)}e^{(m\log(e) + m\log(x))} + 121*B*a^3*d^2*n^2*x*x^{(2n)}e^{(m\log(e) + m\log(x))} + 363*A*a^2*b*d^2*n^2*x*x^{(2n)}e^{(m\log(e) + m\log(x))} + 321*B*a^2*b*d^2*n^2*x*x^{(2n)}e^{(m\log(e) + m\log(x))} + 321*A*a*b^2*d^2*n^2*x*x^{(2n)}e^{(m\log(e) + m\log(x))} + 285*B*a*b^2*d^2*n^2*x*x^{(2n)}e^{(m\log(e) + m\log(x))} + 95*A*b^3*d^2*n^2*x*x^{(2n)}e^{(m\log(e) + m\log(x))} + 85*B*b^3*d^2*n^2*x*x^{(2n)}e^{(m\log(e) + m\log(x))} + 15*B*a^3*c^2*m^2*x*x^n*e^{(m\log(e) + m\log(x))} + 45*A*a^2*b*c^2*m^2*x*x^n*e^{(m\log(e) + m\log(x))} + 45*B*a^2*b*c^2*m^2*x*x^n*e^{(m\log(e) + m\log(x))} + 45*A*a*b^2*c^2*m^2*x*x^n*e^{(m\log(e) + m\log(x))} + 45*B*a*b^2*c^2*m^2*x*x^n*e^{(m\log(e) + m\log(x))} + 15*A*b^3*c^2*m^2*x*x^n*e^{(m\log(e) + m\log(x))} + 30*A*a^3*c*d*m^2*x*x^n*e^{(m\log(e) + m\log(x))} + 30*B*a^3*c*d*m^2*x*x^n*e^{(m\log(e) + m\log(x))} + 90*A*a^2*b*c*d*m^2*x*x^n*e^{(m\log(e) + m\log(x))} + 90*B*a^2*b*c*d*m^2*x*x^n*e^{(m\log(e) + m\log(x))} + 90*A*a*b^2*c*d*m^2*x*x^n*e^{(m\log(e) + m\log(x))} + 90*B*a*b^2*c*d*m^2*x*x^n*e^{(m\log(e) + m\log(x))} + 30*A*b^3*c*d*m^2*x*x^n*e^{(m\log(e) + m\log(x))} + 30*B*b^3*c*d*m^2*x*x^n*e^{(m\log(e) + m\log(x))} + 15*A*a^3*d^2*m^2*x*x^n*e^{(m\log(e) + m\log(x))} + 15*B*a^3*d^2*m^2*x*x^n*e^{(m\log(e) + m\log(x))} + 45*A*a^2*b*d^2*m^2*x*x^n*e^{(m\log(e) + m\log(x))} + 45*B*a^2*b*d^2*m^2*x*x^n*e^{(m\log(e) + m\log(x))} + 45*A*a*b^2*d^2*m^2*x*x^n*e^{(m\log(e) + m\log(x))} + 45*B*a*b^2*d^2*m^2*x*x^n*e^{(m\log(e) + m\log(x))} + 15*A*b^3*d^2*m^2*x*x^n*e^{(m\log(e) + m\log(x))} + 15*B*b^3*d^2*m^2*x*x^n*e^{(m\log(e) + m\log(x))} + 100*B*a^3*c^2*m*n*x*x^n*e^{(m\log(e) + m\log(x))} + 300*A*a^2*b*c^2*m*n*x*x^n*e^{(m\log(e) + m\log(x))} + 285*B*a^2*b*c^2*m*n*x*x^n*e^{(m\log(e) + m\log(x))} + 285*A*a*b^2*c^2*m*n*x*x^n*e^{(m\log(e) + m\log(x))} + 270*B*a*b^2*c^2*m*n*x*x^n*e^{(m\log(e) + m\log(x))} + 90*A*b^3*c^2*m*n*x*x^n*e^{(m\log(e) + m\log(x))} + 85*B*b^3*c^2*m*n*x*x^n*e^{(m\log(e) + m\log(x))} + 200*A*a^3*c*d*m*n*x*x^n*e^{(m\log(e) + m\log(x))} + 190*B*a^3*c*d*m*n*x*x^n*e^{(m\log(e) + m\log(x))} + 570*A*a^2*b*c*d*m*n*x*x^n*e^{(m\log(e) + m\log(x))} + 540*B*a^2*b*c*d*m*n*x*x^n*e^{(m\log(e) + m\log(x))} + 510*B*a*b^2*c*d*m*n*x*x^n*e^{(m\log(e) + m\log(x))} + 170*A*b^3*c*d*m*n*x*x^n*e^{(m\log(e) + m\log(x))} + 160*B*b^3*c*d*m*n*x*x^n*e^{(m\log(e) + m\log(x))} + 95*A*a^3*d^2*m*n*x*x^n*e^{(m\log(e) + m\log(x))} + 90*B*a^3*d^2*m*n*x*x^n*e^{(m\log(e) + m\log(x))} + 270*A*a^2*b*d^2*m*n*x*x^n*e^{(m\log(e) + m\log(x))} + 255*B*a^2*b*d^2*m*n*x*x^n*e^{(m\log(e) + m\log(x))} + 255*A*a*b^2*d^2*m*n*x*x^n*e^{(m\log(e) + m\log(x))} + 240*B*a*b^2*d^2*m*n*x*x^n*e^{(m\log(e) + m\log(x))} + 80*A*b^3*d^2*m*n*x*x^n*e^{(m\log(e) + m\log(x))} + 75*B*b^3*d^2*m*n*x*x^n*e^{(m\log(e) + m\log(x))} + 155*B*a^3*c^2*n^2*x*x^n*e^{(m\log(e) + m\log(x))} + 465*A*a^2*b*c^2*n^2*x*x^n*e^{(m\log(e) + m\log(x))} + 411*B*a^2*b*c^2*n^2*x*x^n*e^{(m\log(e) + m\log(x))} + m
\end{aligned}$$

$\log(x)) + 411*A*a*b^2*c^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 363*B*a*b^2*c^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 121*A*b^3*c^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 107*B*b^3*c^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 310*A*a^3*c*d*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 274*B*a^3*c*d*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 822*A*a^2*b*c*d*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 726*B*a^2*b*c*d*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 726*A*a*b^2*c*d*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 642*B*a*b^2*c*d*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 214*A*b^3*c*d*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 190*B*b^3*c*d*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 137*A*a^3*d^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 121*B*a^3*d^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 363*A*a^2*b*d^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 321*B*a^2*b*d^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 321*A*a*b^2*d^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 285*B*a*b^2*d^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 95*A*b^3*d^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 85*B*b^3*d^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*A*a^3*c^2*m^2*x*e^{(m*\log(e) + m*\log(x))} + 15*B*a^3*c^2*m^2*x*e^{(m*\log(e) + m*\log(x))} + 45*A*a^2*b*c^2*m^2*x*e^{(m*\log(e) + m*\log(x))} + 45*B*a^2*b*c^2*m^2*x*e^{(m*\log(e) + m*\log(x))} + 45*A*a*b^2*c^2*m^2*x*e^{(m*\log(e) + m*\log(x))} + 45*B*a*b^2*c^2*m^2*x*e^{(m*\log(e) + m*\log(x))} + 15*A*b^3*c^2*m^2*x*e^{(m*\log(e) + m*\log(x))} + 15*B*b^3*c^2*m^2*x*e^{(m*\log(e) + m*\log(x))} + 30*A*a^3*c*d*m^2*x*e^{(m*\log(e) + m*\log(x))} + 30*B*a^3*c*d*m^2*x*e^{(m*\log(e) + m*\log(x))} + 90*A*a^2*b*c*d*m^2*x*e^{(m*\log(e) + m*\log(x))} + 90*B*a^2*b*c*d*m^2*x*e^{(m*\log(e) + m*\log(x))} + 90*A*a*b^2*c*d*m^2*x*e^{(m*\log(e) + m*\log(x))} + 90*B*a*b^2*c*d*m^2*x*e^{(m*\log(e) + m*\log(x))} + 30*A*b^3*c*d*m^2*x*e^{(m*\log(e) + m*\log(x))} + 30*B*b^3*c*d*m^2*x*e^{(m*\log(e) + m*\log(x))} + 15*A*a^3*d^2*m^2*x*e^{(m*\log(e) + m*\log(x))} + 15*B*a^3*d^2*m^2*x*e^{(m*\log(e) + m*\log(x))} + 45*A*a^2*b*d^2*m^2*x*e^{(m*\log(e) + m*\log(x))} + 45*B*a^2*b*d^2*m^2*x*e^{(m*\log(e) + m*\log(x))} + 45*A*a*b^2*d^2*m^2*x*e^{(m*\log(e) + m*\log(x))} + 45*B*a*b^2*d^2*m^2*x*e^{(m*\log(e) + m*\log(x))} + 15*A*b^3*d^2*m^2*x*e^{(m*\log(e) + m*\log(x))} + 15*B*b^3*d^2*m^2*x*e^{(m*\log(e) + m*\log(x))} + 105*A*a^3*c^2*m*n*x*e^{(m*\log(e) + m*\log(x))} + 100*B*a^3*c^2*m*n*x*e^{(m*\log(e) + m*\log(x))} + 300*A*a^2*b*c^2*m*n*x*e^{(m*\log(e) + m*\log(x))} + 285*B*a^2*b*c^2*m*n*x*e^{(m*\log(e) + m*\log(x))} + 285*A*a*b^2*c^2*m*n*x*e^{(m*\log(e) + m*\log(x))} + 270*B*a*b^2*c^2*m*n*x*e^{(m*\log(e) + m*\log(x))} + 90*A*b^3*c^2*m*n*x*e^{(m*\log(e) + m*\log(x))} + 85*B*b^3*c^2*m*n*x*e^{(m*\log(e) + m*\log(x))} + 200*A*a^3*c*d*m*n*x*e^{(m*\log(e) + m*\log(x))} + 190*B*a^3*c*d*m*n*x*e^{(m*\log(e) + m*\log(x))} + 570*A*a^2*b*c*d*m*n*x*e^{(m*\log(e) + m*\log(x))} + 540*B*a^2*b*c*d*m*n*x*e^{(m*\log(e) + m*\log(x))} + 540*A*a*b^2*c*d*m*n*x*e^{(m*\log(e) + m*\log(x))} + 510*B*a*b^2*c*d*m*n*x*e^{(m*\log(e) + m*\log(x))} + 170*A*b^3*c*d*m*n*x*e^{(m*\log(e) + m*\log(x))} + 160*B*b^3*c*d*m*n*x*e^{(m*\log(e) + m*\log(x))} + 95*A*a^3*d^2*m*n*x*e^{(m*\log(e) + m*\log(x))} + 90*B*a^3*d^2*m*n*x*e^{(m*\log(e) + m*\log(x))} + 270*A*a^2*b*d^2*m*n*x*e^{(m*\log(e) + m*\log(x))} + 255*B*a^2*b*d^2*m*n*x*e^{(m*\log(e) + m*\log(x))} + 255*A*a*b^2*d^2*m*n*x*e^{(m*\log(e) + m*\log(x))} + 240*B*a*b^2*d^2*m*n*x*e^{(m*\log(e) + m*\log(x))} + 80*A*b^3*d^2*m*n*x*e^{(m*\log(e) + m*\log(x))} + 75*B*b^3*d^2*m*n*x*e^{(m*\log(e) + m*\log(x))} + 175*A*a^3*c^2*n^2*x*e^{(m*\log(e) + m*\log(x))} + 155*B*a^3*c^2*n^2*x*e^{(m*\log(e) + m*\log(x))} + 465*A*a^2*b*c^2*n^2*x*e^{(m*\log(e) + m*\log(x))}$

$$\begin{aligned}
&) + 108*B*a^2*b*c*d*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 108*A*a*b^2*c*d*n \\
& *x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 102*B*a*b^2*c*d*n*x*x^{(3*n)}*e^{(m*\log(e) \\
&) + m*\log(x)} + 34*A*b^3*c*d*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 32*B*b^3 \\
& *c*d*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 18*B*a^3*d^2*n*x*x^{(3*n)}*e^{(m*\log \\
& (e) + m*\log(x))} + 54*A*a^2*b*d^2*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 51* \\
& B*a^2*b*d^2*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 51*A*a*b^2*d^2*n*x*x^{(3*n)} \\
&)*e^{(m*\log(e) + m*\log(x))} + 48*B*a*b^2*d^2*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(\\
& x))} + 16*A*b^3*d^2*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 15*B*b^3*d^2*n*x*x \\
& ^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 18*B*a^2*b*c^2*m*x*x^{(2*n)}*e^{(m*\log(e) + m \\
& *log(x))} + 18*A*a*b^2*c^2*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 18*B*a*b^2*c \\
& ^2*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 6*A*b^3*c^2*m*x*x^{(2*n)}*e^{(m*\log(\\
& e) + m*\log(x))} + 6*B*b^3*c^2*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 12*B*a^3 \\
& *c*d*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 36*A*a^2*b*c*d*m*x*x^{(2*n)}*e^{(m* \\
& log(e) + m*\log(x))} + 36*B*a^2*b*c*d*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3 \\
& 6*A*a*b^2*c*d*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 36*B*a*b^2*c*d*m*x*x^{(2 \\
& *n)}*e^{(m*\log(e) + m*\log(x))} + 12*A*b^3*c*d*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(\\
& x))} + 12*B*b^3*c*d*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 6*A*a^3*d^2*m*x*x^{ \\
& (2*n)}*e^{(m*\log(e) + m*\log(x))} + 6*B*a^3*d^2*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log \\
& (x))} + 18*A*a^2*b*d^2*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 18*B*a^2*b*d^2* \\
& m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 18*A*a*b^2*d^2*m*x*x^{(2*n)}*e^{(m*\log(e) \\
&) + m*\log(x))} + 18*B*a*b^2*d^2*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 6*A*b^ \\
& 3*d^2*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 6*B*b^3*d^2*m*x*x^{(2*n)}*e^{(m*\log \\
& (e) + m*\log(x))} + 57*B*a^2*b*c^2*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 57* \\
& A*a*b^2*c^2*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 54*B*a*b^2*c^2*n*x*x^{(2*n)} \\
&)*e^{(m*\log(e) + m*\log(x))} + 18*A*b^3*c^2*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x) \\
&)} + 17*B*b^3*c^2*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 38*B*a^3*c*d*n*x*x^{(\\
& 2*n)}*e^{(m*\log(e) + m*\log(x))} + 114*A*a^2*b*c*d*n*x*x^{(2*n)}*e^{(m*\log(e) + m* \\
& log(x))} + 108*B*a^2*b*c*d*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 108*A*a*b^2 \\
& *c*d*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 102*B*a*b^2*c*d*n*x*x^{(2*n)}*e^{(m \\
& *log(e) + m*\log(x))} + 34*A*b^3*c*d*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 32 \\
& *B*b^3*c*d*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 19*A*a^3*d^2*n*x*x^{(2*n)}*e \\
& ^{(m*\log(e) + m*\log(x))} + 18*B*a^3*d^2*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + \\
& 54*A*a^2*b*d^2*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 51*B*a^2*b*d^2*n*x*x^{ \\
& (2*n)}*e^{(m*\log(e) + m*\log(x))} + 51*A*a*b^2*d^2*n*x*x^{(2*n)}*e^{(m*\log(e) + m* \\
& log(x))} + 48*B*a*b^2*d^2*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 16*A*b^3*d^2 \\
& *n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 15*B*b^3*d^2*n*x*x^{(2*n)}*e^{(m*\log(e) \\
& + m*\log(x))} + 6*B*a^3*c^2*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 18*A*a^2*b*c^2 \\
& *m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 18*B*a^2*b*c^2*m*x*x^n*e^{(m*\log(e) + m*\log \\
& (x))} + 18*A*a*b^2*c^2*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 18*B*a*b^2*c^2*m* \\
& x*x^n*e^{(m*\log(e) + m*\log(x))} + 6*A*b^3*c^2*m*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 6*B*b^3*c^2*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 12*A*a^3*c*d*m*x*x^n*e^{(m* \\
& log(e) + m*\log(x))} + 12*B*a^3*c*d*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 36*A*a^ \\
& 2*b*c*d*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 36*B*a^2*b*c*d*m*x*x^n*e^{(m*\log(e) \\
&) + m*\log(x))} + 36*A*a*b^2*c*d*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 36*B*a*b^2 \\
& *c*d*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 12*A*b^3*c*d*m*x*x^n*e^{(m*\log(e) + m
\end{aligned}$$

$\ast \log(x)) + 12*B*b^3*c*d*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 6*A*a^3*d^2*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 6*B*a^3*d^2*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 18*A*a^2*b*d^2*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 18*B*a^2*b*d^2*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 18*A*a*b^2*d^2*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 18*B*a*b^2*d^2*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 6*A*b^3*d^2*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 6*B*b^3*d^2*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 20*B*a^3*c^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 60*A*a^2*b*c^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 57*B*a^2*b*c^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 57*A*a*b^2*c^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 54*B*a*b^2*c^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 18*A*b^3*c^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 17*B*b^3*c^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 40*A*a^3*c*d*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 38*B*a^3*c*d*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 114*A*a^2*b*c*d*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 108*B*a^2*b*c*d*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 108*A*a*b^2*c*d*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 102*B*a*b^2*c*d*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 34*A*b^3*c*d*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 32*B*b^3*c*d*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 19*A*a^3*d^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 18*B*a^3*d^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 54*A*a^2*b*d^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 51*B*a^2*b*d^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 51*A*a*b^2*d^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 48*B*a*b^2*d^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 16*A*b^3*d^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*B*b^3*d^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 6*A*a^3*c^2*m*x*e^{(m*\log(e) + m*\log(x))} + 6*B*a^3*c^2*m*x*e^{(m*\log(e) + m*\log(x))} + 18*A*a^2*b*c^2*m*x*e^{(m*\log(e) + m*\log(x))} + 18*B*a^2*b*c^2*m*x*e^{(m*\log(e) + m*\log(x))} + 18*A*a*b^2*c^2*m*x*e^{(m*\log(e) + m*\log(x))} + 18*B*a*b^2*c^2*m*x*e^{(m*\log(e) + m*\log(x))} + 6*A*b^3*c^2*m*x*e^{(m*\log(e) + m*\log(x))} + 6*B*b^3*c^2*m*x*e^{(m*\log(e) + m*\log(x))} + 12*A*a^3*c*d*m*x*e^{(m*\log(e) + m*\log(x))} + 12*B*a^3*c*d*m*x*e^{(m*\log(e) + m*\log(x))} + 36*A*a^2*b*c*d*m*x*e^{(m*\log(e) + m*\log(x))} + 36*B*a^2*b*c*d*m*x*e^{(m*\log(e) + m*\log(x))} + 36*A*a*b^2*c*d*m*x*e^{(m*\log(e) + m*\log(x))} + 36*B*a*b^2*c*d*m*x*e^{(m*\log(e) + m*\log(x))} + 12*A*b^3*c*d*m*x*e^{(m*\log(e) + m*\log(x))} + 12*B*b^3*c*d*m*x*e^{(m*\log(e) + m*\log(x))} + 6*A*a^3*d^2*m*x*e^{(m*\log(e) + m*\log(x))} + 6*B*a^3*d^2*m*x*e^{(m*\log(e) + m*\log(x))} + 18*A*a^2*b*d^2*m*x*e^{(m*\log(e) + m*\log(x))} + 18*B*a^2*b*d^2*m*x*e^{(m*\log(e) + m*\log(x))} + 18*A*a*b^2*d^2*m*x*e^{(m*\log(e) + m*\log(x))} + 18*B*a*b^2*d^2*m*x*e^{(m*\log(e) + m*\log(x))} + 6*A*b^3*d^2*m*x*e^{(m*\log(e) + m*\log(x))} + 6*B*b^3*d^2*m*x*e^{(m*\log(e) + m*\log(x))} + 21*A*a^3*c^2*n*x*e^{(m*\log(e) + m*\log(x))} + 20*B*a^3*c^2*n*x*e^{(m*\log(e) + m*\log(x))} + 60*A*a^2*b*c^2*n*x*e^{(m*\log(e) + m*\log(x))} + 57*B*a^2*b*c^2*n*x*e^{(m*\log(e) + m*\log(x))} + 57*A*a*b^2*c^2*n*x*e^{(m*\log(e) + m*\log(x))} + 54*B*a*b^2*c^2*n*x*e^{(m*\log(e) + m*\log(x))} + 18*A*b^3*c^2*n*x*e^{(m*\log(e) + m*\log(x))} + 17*B*b^3*c^2*n*x*e^{(m*\log(e) + m*\log(x))} + 40*A*a^3*c*d*n*x*e^{(m*\log(e) + m*\log(x))} + 38*B*a^3*c*d*n*x*e^{(m*\log(e) + m*\log(x))} + 114*A*a^2*b*c*d*n*x*e^{(m*\log(e) + m*\log(x))} + 108*B*a^2*b*c*d*n*x*e^{(m*\log(e) + m*\log(x))} + 108*A*a*b^2*c*d*n*x*e^{(m*\log(e) + m*\log(x))} + 102*B*a*b^2*c*d*n*x*e^{(m*\log(e) + m*\log(x))} + 34*A*b^3*c*d*n*x*e^{(m*\log(e) + m*\log(x))} + 32*B*b^3*c*d*n*x*e^{(m*\log(e) + m*\log(x))} + 19*A*a^3*d^2*n*x*e^{(m*\log(e) + m*\log(x))} + 18*B*a^3*d^2*n*x*e^{(m*\log(e) + m*\log(x))}$

$$\begin{aligned}
& + m \log(x) + 54 A^2 b^2 d^{2n} x^m e^{(m \log(e) + m \log(x))} + 51 B^2 a^2 b^2 d^{2n} \\
& x^m e^{(m \log(e) + m \log(x))} + 51 A^2 a^2 b^2 d^{2n} x^m e^{(m \log(e) + m \log(x))} + 4 \\
& 8 B^2 a^2 b^2 d^{2n} x^m e^{(m \log(e) + m \log(x))} + 16 A^2 b^3 d^{2n} x^m e^{(m \log(e) + \\
& m \log(x))} + 15 B^2 b^3 d^{2n} x^m e^{(m \log(e) + m \log(x))} + B^2 b^3 d^{2n} x^{6n} \\
& e^{(m \log(e) + m \log(x))} + 2 B^2 b^3 c^2 d^{2n} x^{5n} e^{(m \log(e) + m \log(x))} + 3 \\
& B^2 a^2 b^2 d^{2n} x^{5n} e^{(m \log(e) + m \log(x))} + A^2 b^3 d^{2n} x^{5n} e^{(m \log(e) + \\
& m \log(x))} + B^2 b^3 d^{2n} x^{5n} e^{(m \log(e) + m \log(x))} + B^2 b^3 c^2 \\
& x^{4n} e^{(m \log(e) + m \log(x))} + 6 B^2 a^2 b^2 c^2 d^{2n} x^{4n} e^{(m \log(e) + \\
& m \log(x))} + 2 A^2 b^3 c^2 d^{2n} x^{4n} e^{(m \log(e) + m \log(x))} + 2 B^2 b^3 c^2 d^{2n} x^{4n} \\
& e^{(m \log(e) + m \log(x))} + 3 B^2 a^2 b^2 d^{2n} x^{4n} e^{(m \log(e) + m \log(x))} + 3 \\
& A^2 a^2 b^2 d^{2n} x^{4n} e^{(m \log(e) + m \log(x))} + 3 B^2 a^2 b^2 d^{2n} x^{4n} \\
& e^{(m \log(e) + m \log(x))} + A^2 b^3 d^{2n} x^{4n} e^{(m \log(e) + m \log(x))} \\
& + B^2 b^3 d^{2n} x^{4n} e^{(m \log(e) + m \log(x))} + 3 B^2 a^2 b^2 c^2 x^{3n} e^{(m \log(e) + \\
& m \log(x))} + A^2 b^3 c^2 x^{3n} e^{(m \log(e) + m \log(x))} + B^2 b^3 \\
& c^2 x^{3n} e^{(m \log(e) + m \log(x))} + 6 B^2 a^2 b^2 c^2 d^{2n} x^{3n} e^{(m \log(e) + \\
& m \log(x))} + 6 A^2 a^2 b^2 c^2 d^{2n} x^{3n} e^{(m \log(e) + m \log(x))} + 6 B^2 a^2 b^2 \\
& c^2 d^{2n} x^{3n} e^{(m \log(e) + m \log(x))} + 2 A^2 b^3 c^2 d^{2n} x^{3n} e^{(m \log(e) + \\
& m \log(x))} + 2 B^2 b^3 c^2 d^{2n} x^{3n} e^{(m \log(e) + m \log(x))} + B^2 a^3 d^{2n} x^{3n} \\
& e^{(m \log(e) + m \log(x))} + 3 A^2 a^2 b^2 d^{2n} x^{3n} e^{(m \log(e) + m \log(x))} + 3 \\
& A^2 a^2 b^2 d^{2n} x^{3n} e^{(m \log(e) + m \log(x))} + 3 B^2 a^2 b^2 d^{2n} x^{3n} \\
& e^{(m \log(e) + m \log(x))} + 3 A^2 a^2 b^2 d^{2n} x^{3n} e^{(m \log(e) + m \log(x))} + 3 \\
& B^2 a^2 b^2 d^{2n} x^{3n} e^{(m \log(e) + m \log(x))} + 3 A^2 a^2 b^2 d^{2n} x^{3n} \\
& e^{(m \log(e) + m \log(x))} + 3 B^2 a^2 b^2 d^{2n} x^{3n} e^{(m \log(e) + m \log(x))} + A^2 b^3 \\
& d^{2n} x^{3n} e^{(m \log(e) + m \log(x))} + B^2 b^3 d^{2n} x^{3n} e^{(m \log(e) + m \log(x))} \\
& + 3 B^2 a^2 b^2 c^2 x^{2n} e^{(m \log(e) + m \log(x))} + 3 A^2 a^2 b^2 c^2 x^{2n} e^{(m \log(e) + \\
& m \log(x))} + 3 B^2 a^2 b^2 c^2 x^{2n} e^{(m \log(e) + m \log(x))} + A^2 b^3 c^2 x^{2n} \\
& e^{(m \log(e) + m \log(x))} + B^2 b^3 c^2 x^{2n} e^{(m \log(e) + m \log(x))} + 2 B^2 a^3 c^2 \\
& d^{2n} x^{2n} e^{(m \log(e) + m \log(x))} + 6 A^2 a^2 b^2 c^2 d^{2n} x^{2n} e^{(m \log(e) + \\
& m \log(x))} + 6 B^2 a^2 b^2 c^2 d^{2n} x^{2n} e^{(m \log(e) + m \log(x))} + 6 A^2 a^2 b^2 \\
& c^2 d^{2n} x^{2n} e^{(m \log(e) + m \log(x))} + 6 B^2 a^2 b^2 c^2 d^{2n} x^{2n} e^{(m \log(e) + \\
& m \log(x))} + 6 B^2 a^2 b^2 c^2 d^{2n} x^{2n} e^{(m \log(e) + m \log(x))} + 2 A^2 b^3 c^2 \\
& d^{2n} x^{2n} e^{(m \log(e) + m \log(x))} + 2 B^2 b^3 c^2 d^{2n} x^{2n} e^{(m \log(e) + \\
& m \log(x))} + A^2 a^3 d^{2n} x^{2n} e^{(m \log(e) + m \log(x))} + B^2 a^3 d^{2n} x^{2n} \\
& e^{(m \log(e) + m \log(x))} + 3 A^2 a^2 b^2 d^{2n} x^{2n} e^{(m \log(e) + m \log(x))} + 3 \\
& B^2 a^2 b^2 d^{2n} x^{2n} e^{(m \log(e) + m \log(x))} + 3 A^2 a^2 b^2 d^{2n} x^{2n} \\
& e^{(m \log(e) + m \log(x))} + 3 B^2 a^2 b^2 d^{2n} x^{2n} e^{(m \log(e) + m \log(x))} + \\
& A^2 b^3 d^{2n} x^{2n} e^{(m \log(e) + m \log(x))} + B^2 b^3 d^{2n} x^{2n} e^{(m \log(e) + \\
& m \log(x))} + B^2 a^3 c^2 x^{2n} e^{(m \log(e) + m \log(x))} + 3 A^2 a^2 b^2 c^2 \\
& x^{2n} e^{(m \log(e) + m \log(x))} + 3 B^2 a^2 b^2 c^2 x^{2n} e^{(m \log(e) + m \log(x))} \\
& + 3 A^2 a^2 b^2 c^2 x^{2n} e^{(m \log(e) + m \log(x))} + 3 B^2 a^2 b^2 c^2 x^{2n} e^{(m \log(e) + \\
& m \log(x))} + A^2 b^3 c^2 x^{2n} e^{(m \log(e) + m \log(x))} + B^2 b^3 c^2 x^{2n} \\
& e^{(m \log(e) + m \log(x))} + 2 A^2 a^3 c^2 d^{2n} x^{2n} e^{(m \log(e) + m \log(x))} + \\
& 2 B^2 a^3 c^2 d^{2n} x^{2n} e^{(m \log(e) + m \log(x))} + 6 A^2 a^2 b^2 c^2 d^{2n} x^{2n} \\
& e^{(m \log(e) + m \log(x))} + 6 B^2 a^2 b^2 c^2 d^{2n} x^{2n} e^{(m \log(e) + m \log(x))} + 6 \\
& A^2 a^2 b^2 c^2 d^{2n} x^{2n} e^{(m \log(e) + m \log(x))} + 6 B^2 a^2 b^2 c^2 d^{2n} x^{2n} \\
& e^{(m \log(e) + m \log(x))} + 2 A^2 b^3 c^2 d^{2n} x^{2n} e^{(m \log(e) + m \log(x))} + 2 \\
& B^2 b^3 c^2 d^{2n} x^{2n} e^{(m \log(e) + m \log(x))} + A^2 a^3 d^{2n} x^{2n} e^{(m \log(e) + \\
& m \log(x))} + B^2 a^3 d^{2n} x^{2n} e^{(m \log(e) + m \log(x))}
\end{aligned}$$

$$\begin{aligned} & e^{(m \log(e) + m \log(x))} + 3Aa^2bd^2xx^n e^{(m \log(e) + m \log(x))} + 3Bba^2bd^2xx^n e^{(m \log(e) + m \log(x))} + 3A^2a^2b^2d^2xx^n e^{(m \log(e) + m \log(x))} \\ & + 3B^2a^2b^2d^2xx^n e^{(m \log(e) + m \log(x))} + Ab^3d^2xx^n e^{(m \log(e) + m \log(x))} + Bb^3d^2xx^n e^{(m \log(e) + m \log(x))} + Aa^3c^2xx e^{(m \log(e) + m \log(x))} \\ & + Bb^3c^2xx e^{(m \log(e) + m \log(x))} + 3Aa^2bc^2xx e^{(m \log(e) + m \log(x))} + 3Bba^2bc^2xx e^{(m \log(e) + m \log(x))} + 3A^2a^2b^2c^2xx e^{(m \log(e) + m \log(x))} \\ & + 3B^2a^2b^2c^2xx e^{(m \log(e) + m \log(x))} + Ab^3c^2xx e^{(m \log(e) + m \log(x))} + Bb^3c^2xx e^{(m \log(e) + m \log(x))} + 2Aa^3cdxx e^{(m \log(e) + m \log(x))} \\ & + 2Bba^3cdxx e^{(m \log(e) + m \log(x))} + 6Aa^2b^2cdxx e^{(m \log(e) + m \log(x))} + 6Bba^2b^2cdxx e^{(m \log(e) + m \log(x))} + 6A^2a^2b^2cdxx e^{(m \log(e) + m \log(x))} \\ & + 6B^2a^2b^2cdxx e^{(m \log(e) + m \log(x))} + 2Ab^3cdxx e^{(m \log(e) + m \log(x))} + 2Bb^3cdxx e^{(m \log(e) + m \log(x))} + Aa^3d^2xx e^{(m \log(e) + m \log(x))} \\ & + Bb^3d^2xx e^{(m \log(e) + m \log(x))} + 3Aa^2bd^2xx e^{(m \log(e) + m \log(x))} + 3Aa^2bd^2xx e^{(m \log(e) + m \log(x))} + 3Bba^2bd^2xx e^{(m \log(e) + m \log(x))} \\ & + Ab^3d^2xx e^{(m \log(e) + m \log(x))} + Bb^3d^2xx e^{(m \log(e) + m \log(x))}) / (m^7 + 21m^6n + 175m^5n^2 + 735m^4n^3 + 1624m^3n^4 + 1764m^2n^5 + 720mn^6 + 7m^6 \\ & + 126m^5n + 875m^4n^2 + 2940m^3n^3 + 4872m^2n^4 + 3528mn^5 + 720n^6 + 21m^5 + 315m^4n + 1750m^3n^2 + 4410m^2n^3 + 4872mn^4 + 1764n^5 + 35m^4 \\ & + 420m^3n + 1750m^2n^2 + 2940mn^3 + 1624n^4 + 35m^3 + 315m^2n + 875mn^2 + 735n^3 + 21m^2 + 126mn + 175n^2 + 7m + 21n + 1) \end{aligned}$$

Mupad [B] (verification not implemented)

Time = 10.78 (sec) , antiderivative size = 1882, normalized size of antiderivative = 5.92

$$\int (ex)^m (a + bx^n)^3 (A + Bx^n) (c + dx^n)^2 dx = \text{Too large to display}$$

[In] int((e*x)^m*(A + B*x^n)*(a + b*x^n)^3*(c + d*x^n)^2,x)

[Out] (x*x^(3*n))*(e*x)^m*(A*b^3*c^2 + B*a^3*d^2 + 3*A*a^2*b*d^2 + 3*B*a*b^2*c^2 + 6*A*a*b^2*c*d + 6*B*a^2*b*c*d)*(5*m + 18*n + 72*m*n + 363*m*n^2 + 108*m^2*n + 744*m*n^3 + 72*m^3*n + 508*m*n^4 + 18*m^4*n + 10*m^2 + 10*m^3 + 5*m^4 + m^5 + 121*n^2 + 372*n^3 + 508*n^4 + 240*n^5 + 363*m^2*n^2 + 372*m^2*n^3 + 121*m^3*n^2 + 1))/((6*m + 21*n + 105*m*n + 700*m*n^2 + 210*m^2*n + 2205*m*n^3 + 210*m^3*n + 3248*m*n^4 + 105*m^4*n + 1764*m*n^5 + 21*m^5*n + 15*m^2 + 20*m^3 + 15*m^4 + 6*m^5 + m^6 + 175*n^2 + 735*n^3 + 1624*n^4 + 1764*n^5 + 720*n^6 + 1050*m^2*n^2 + 2205*m^2*n^3 + 700*m^3*n^2 + 1624*m^2*n^4 + 735*m^3*n^3 + 175*m^4*n^2 + 1) + (A*a^3*c^2*x*(e*x)^m)/(m + 1) + (a*x*x^(2*n))*(e*x)^m*(A*a^2*d^2 + 3*A*b^2*c^2 + 3*B*a*b*c^2 + 2*B*a^2*c*d + 6*A*a*b*c*d)*(5*m + 19*n + 76*m*n + 411*m*n^2 + 114*m^2*n + 922*m*n^3 + 76*m^3*n + 702*m*n^4 + 19*m^4*n + 10*m^2 + 10*m^3 + 5*m^4 + m^5 + 137*n^2 + 461*n^3 + 702*n^4 +

$$\begin{aligned}
& (360*n^5 + 411*m^2*n^2 + 461*m^2*n^3 + 137*m^3*n^2 + 1)) / (6*m + 21*n + 105* \\
& m*n + 700*m*n^2 + 210*m^2*n + 2205*m*n^3 + 210*m^3*n + 3248*m*n^4 + 105*m^4 \\
& *n + 1764*m*n^5 + 21*m^5*n + 15*m^2 + 20*m^3 + 15*m^4 + 6*m^5 + m^6 + 175*n \\
& ^2 + 735*n^3 + 1624*n^4 + 1764*n^5 + 720*n^6 + 1050*m^2*n^2 + 2205*m^2*n^3 \\
& + 700*m^3*n^2 + 1624*m^2*n^4 + 735*m^3*n^3 + 175*m^4*n^2 + 1) + (b*x*x^(4*n \\
&)*(e*x)^m*(3*B*a^2*d^2 + B*b^2*c^2 + 3*A*a*b*d^2 + 2*A*b^2*c*d + 6*B*a*b*c* \\
& d)*(5*m + 17*n + 68*m*n + 321*m*n^2 + 102*m^2*n + 614*m*n^3 + 68*m^3*n + 39 \\
& 6*m*n^4 + 17*m^4*n + 10*m^2 + 10*m^3 + 5*m^4 + m^5 + 107*n^2 + 307*n^3 + 39 \\
& 6*n^4 + 180*n^5 + 321*m^2*n^2 + 307*m^2*n^3 + 107*m^3*n^2 + 1)) / (6*m + 21*n \\
& + 105*m*n + 700*m*n^2 + 210*m^2*n + 2205*m*n^3 + 210*m^3*n + 3248*m*n^4 + \\
& 105*m^4*n + 1764*m*n^5 + 21*m^5*n + 15*m^2 + 20*m^3 + 15*m^4 + 6*m^5 + m^6 \\
& + 175*n^2 + 735*n^3 + 1624*n^4 + 1764*n^5 + 720*n^6 + 1050*m^2*n^2 + 2205*m \\
& ^2*n^3 + 700*m^3*n^2 + 1624*m^2*n^4 + 735*m^3*n^3 + 175*m^4*n^2 + 1) + (a^2 \\
& *c*x*x^n*(e*x)^m*(2*A*a*d + 3*A*b*c + B*a*c)*(5*m + 20*n + 80*m*n + 465*m*n \\
& ^2 + 120*m^2*n + 1160*m*n^3 + 80*m^3*n + 1044*m*n^4 + 20*m^4*n + 10*m^2 + 1 \\
& 0*m^3 + 5*m^4 + m^5 + 155*n^2 + 580*n^3 + 1044*n^4 + 720*n^5 + 465*m^2*n^2 \\
& + 580*m^2*n^3 + 155*m^3*n^2 + 1)) / (6*m + 21*n + 105*m*n + 700*m*n^2 + 210*m \\
& ^2*n + 2205*m*n^3 + 210*m^3*n + 3248*m*n^4 + 105*m^4*n + 1764*m*n^5 + 21*m^ \\
& 5*n + 15*m^2 + 20*m^3 + 15*m^4 + 6*m^5 + m^6 + 175*n^2 + 735*n^3 + 1624*n^4 \\
& + 1764*n^5 + 720*n^6 + 1050*m^2*n^2 + 2205*m^2*n^3 + 700*m^3*n^2 + 1624*m^ \\
& 2*n^4 + 735*m^3*n^3 + 175*m^4*n^2 + 1) + (b^2*d*x*x^(5*n)*(e*x)^m*(A*b*d + \\
& 3*B*a*d + 2*B*b*c)*(5*m + 16*n + 64*m*n + 285*m*n^2 + 96*m^2*n + 520*m*n^3 \\
& + 64*m^3*n + 324*m*n^4 + 16*m^4*n + 10*m^2 + 10*m^3 + 5*m^4 + m^5 + 95*n^2 \\
& + 260*n^3 + 324*n^4 + 144*n^5 + 285*m^2*n^2 + 260*m^2*n^3 + 95*m^3*n^2 + 1) \\
&) / (6*m + 21*n + 105*m*n + 700*m*n^2 + 210*m^2*n + 2205*m*n^3 + 210*m^3*n + \\
& 3248*m*n^4 + 105*m^4*n + 1764*m*n^5 + 21*m^5*n + 15*m^2 + 20*m^3 + 15*m^4 + \\
& 6*m^5 + m^6 + 175*n^2 + 735*n^3 + 1624*n^4 + 1764*n^5 + 720*n^6 + 1050*m^2 \\
& *n^2 + 2205*m^2*n^3 + 700*m^3*n^2 + 1624*m^2*n^4 + 735*m^3*n^3 + 175*m^4*n^ \\
& 2 + 1) + (B*b^3*d^2*x*x^(6*n)*(e*x)^m*(5*m + 15*n + 60*m*n + 255*m*n^2 + 90 \\
& *m^2*n + 450*m*n^3 + 60*m^3*n + 274*m*n^4 + 15*m^4*n + 10*m^2 + 10*m^3 + 5* \\
& m^4 + m^5 + 85*n^2 + 225*n^3 + 274*n^4 + 120*n^5 + 255*m^2*n^2 + 225*m^2*n^ \\
& 3 + 85*m^3*n^2 + 1)) / (6*m + 21*n + 105*m*n + 700*m*n^2 + 210*m^2*n + 2205*m \\
& *n^3 + 210*m^3*n + 3248*m*n^4 + 105*m^4*n + 1764*m*n^5 + 21*m^5*n + 15*m^2 \\
& + 20*m^3 + 15*m^4 + 6*m^5 + m^6 + 175*n^2 + 735*n^3 + 1624*n^4 + 1764*n^5 + \\
& 720*n^6 + 1050*m^2*n^2 + 2205*m^2*n^3 + 700*m^3*n^2 + 1624*m^2*n^4 + 735*m \\
& ^3*n^3 + 175*m^4*n^2 + 1)
\end{aligned}$$

3.9 $\int (ex)^m (a + bx^n)^2 (A + Bx^n) (c + dx^n)^2 dx$

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Optimal result

Integrand size = 31, antiderivative size = 237

$$\int (ex)^m (a + bx^n)^2 (A + Bx^n) (c + dx^n)^2 dx$$

$$= \frac{ac(aBc + 2A(bc + ad))x^{1+n}(ex)^m}{1 + m + n}$$

$$+ \frac{(2aBc(bc + ad) + A(b^2c^2 + 4abcd + a^2d^2))x^{1+2n}(ex)^m}{1 + m + 2n}$$

$$+ \frac{(a^2Bd^2 + 2abd(2Bc + Ad) + b^2c(Bc + 2Ad))x^{1+3n}(ex)^m}{1 + m + 3n}$$

$$+ \frac{bd(2bBc + Abd + 2aBd)x^{1+4n}(ex)^m}{1 + m + 4n} + \frac{b^2Bd^2x^{1+5n}(ex)^m}{1 + m + 5n} + \frac{a^2Ac^2(ex)^{1+m}}{e(1 + m)}$$

```
[Out] a*c*(B*a*c+2*A*(a*d+b*c))*x^(1+n)*(e*x)^m/(1+m+n)+(2*a*B*c*(a*d+b*c)+A*(a^2*d^2+4*a*b*c*d+b^2*c^2))*x^(1+2*n)*(e*x)^m/(1+m+2*n)+(a^2*B*d^2+2*a*b*d*(A*d+2*B*c)+b^2*c*(2*A*d+B*c))*x^(1+3*n)*(e*x)^m/(1+m+3*n)+b*d*(A*b*d+2*B*a*d+2*B*b*c)*x^(1+4*n)*(e*x)^m/(1+m+4*n)+b^2*B*d^2*x^(1+5*n)*(e*x)^m/(1+m+5*n)+a^2*A*c^2*(e*x)^(1+m)/e/(1+m)
```

Rubi [A] (verified)

Time = 0.19 (sec) , antiderivative size = 237, normalized size of antiderivative = 1.00, number of steps used = 12, number of rules used = 3, $\frac{\text{number of rules}}{\text{integrand size}} = 0.097$, Rules used

= {584, 20, 30}

$$\int (ex)^m (a + bx^n)^2 (A + Bx^n) (c + dx^n)^2 dx$$

$$= \frac{x^{2n+1}(ex)^m (A(a^2d^2 + 4abcd + b^2c^2) + 2aBc(ad + bc))}{m + 2n + 1}$$

$$+ \frac{x^{3n+1}(ex)^m (a^2Bd^2 + 2abd(Ad + 2Bc) + b^2c(2Ad + Bc))}{m + 3n + 1}$$

$$+ \frac{a^2Ac^2(ex)^{m+1}}{e(m+1)} + \frac{acx^{n+1}(ex)^m(2A(ad + bc) + aBc)}{m + n + 1}$$

$$+ \frac{bdx^{4n+1}(ex)^m(2aBd + Abd + 2bBc)}{m + 4n + 1} + \frac{b^2Bd^2x^{5n+1}(ex)^m}{m + 5n + 1}$$

[In] Int[(e*x)^m*(a + b*x^n)^2*(A + B*x^n)*(c + d*x^n)^2,x]

[Out] (a*c*(a*B*c + 2*A*(b*c + a*d))*x^(1 + n)*(e*x)^m)/(1 + m + n) + ((2*a*B*c*(b*c + a*d) + A*(b^2*c^2 + 4*a*b*c*d + a^2*d^2))*x^(1 + 2*n)*(e*x)^m)/(1 + m + 2*n) + ((a^2*B*d^2 + 2*a*b*d*(2*B*c + A*d) + b^2*c*(B*c + 2*A*d))*x^(1 + 3*n)*(e*x)^m)/(1 + m + 3*n) + (b*d*(2*b*B*c + A*b*d + 2*a*B*d))*x^(1 + 4*n)*(e*x)^m)/(1 + m + 4*n) + (b^2*B*d^2*x^(1 + 5*n)*(e*x)^m)/(1 + m + 5*n) + (a^2*A*c^2*(e*x)^(1 + m))/(e*(1 + m))

Rule 20

Int[(u_)*((a_)*(v_))^(m_)*((b_)*(v_))^(n_), x_Symbol] := Dist[b^IntPart[n]*((b*v)^FracPart[n]/(a^IntPart[n]*(a*v)^FracPart[n])), Int[u*(a*v)^(m+n), x], x] /; FreeQ[{a, b, m, n}, x] && !IntegerQ[m] && !IntegerQ[n] && !IntegerQ[m+n]

Rule 30

Int[(x_)^(m_), x_Symbol] := Simp[x^(m+1)/(m+1), x] /; FreeQ[m, x] && NeQ[m, -1]

Rule 584

Int[((g_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_)*((e_) + (f_)*(x_)^(n_))^(r_), x_Symbol] := Int[ExpandIntegrand[(g*x)^m*(a + b*x^n)^p*(c + d*x^n)^q*(e + f*x^n)^r, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n}, x] && IGtQ[p, -2] && IGtQ[q, 0] && IGtQ[r, 0]

Rubi steps

$$\text{integral} = \int (a^2Ac^2(ex)^m + ac(aBc + 2A(bc + ad))x^n(ex)^m$$

$$+ (2aBc(bc + ad) + A(b^2c^2 + 4abcd + a^2d^2))x^{2n}(ex)^m$$

$$+ (a^2Bd^2 + 2abd(2Bc + Ad) + b^2c(Bc + 2Ad))x^{3n}(ex)^m$$

$$+ bd(2bBc + Abd + 2aBd)x^{4n}(ex)^m + b^2Bd^2x^{5n}(ex)^m) dx$$

$$\begin{aligned}
&= \frac{a^2 Ac^2 (ex)^{1+m}}{e(1+m)} + (b^2 Bd^2) \int x^{5n} (ex)^m dx + (bd(2bBc + Abd + 2aBd)) \int x^{4n} (ex)^m dx \\
&\quad + (ac(aBc + 2A(bc + ad))) \int x^n (ex)^m dx \\
&\quad + (a^2 Bd^2 + 2abd(2Bc + Ad) + b^2 c(Bc + 2Ad)) \int x^{3n} (ex)^m dx \\
&\quad + (2aBc(bc + ad) + A(b^2 c^2 + 4abcd + a^2 d^2)) \int x^{2n} (ex)^m dx \\
&= \frac{a^2 Ac^2 (ex)^{1+m}}{e(1+m)} + (b^2 Bd^2 x^{-m} (ex)^m) \int x^{m+5n} dx \\
&\quad + (bd(2bBc + Abd + 2aBd) x^{-m} (ex)^m) \int x^{m+4n} dx \\
&\quad + (ac(aBc + 2A(bc + ad)) x^{-m} (ex)^m) \int x^{m+n} dx \\
&\quad + ((a^2 Bd^2 + 2abd(2Bc + Ad) + b^2 c(Bc + 2Ad)) x^{-m} (ex)^m) \int x^{m+3n} dx \\
&\quad + ((2aBc(bc + ad) + A(b^2 c^2 + 4abcd + a^2 d^2)) x^{-m} (ex)^m) \int x^{m+2n} dx \\
&= \frac{ac(aBc + 2A(bc + ad)) x^{1+n} (ex)^m}{1+m+n} \\
&\quad + \frac{(2aBc(bc + ad) + A(b^2 c^2 + 4abcd + a^2 d^2)) x^{1+2n} (ex)^m}{1+m+2n} \\
&\quad + \frac{(a^2 Bd^2 + 2abd(2Bc + Ad) + b^2 c(Bc + 2Ad)) x^{1+3n} (ex)^m}{1+m+3n} \\
&\quad + \frac{bd(2bBc + Abd + 2aBd) x^{1+4n} (ex)^m}{1+m+4n} + \frac{b^2 Bd^2 x^{1+5n} (ex)^m}{1+m+5n} + \frac{a^2 Ac^2 (ex)^{1+m}}{e(1+m)}
\end{aligned}$$

Mathematica [A] (verified)

Time = 0.88 (sec) , antiderivative size = 199, normalized size of antiderivative = 0.84

$$\begin{aligned}
&\int (ex)^m (a + bx^n)^2 (A + Bx^n) (c + dx^n)^2 dx \\
&= x(ex)^m \left(\frac{a^2 Ac^2}{1+m} + \frac{ac(aBc + 2A(bc + ad)) x^n}{1+m+n} \right. \\
&\quad \left. + \frac{(2aBc(bc + ad) + A(b^2 c^2 + 4abcd + a^2 d^2)) x^{2n}}{1+m+2n} \right. \\
&\quad \left. + \frac{(a^2 Bd^2 + 2abd(2Bc + Ad) + b^2 c(Bc + 2Ad)) x^{3n}}{1+m+3n} + \frac{bd(2bBc + Abd + 2aBd) x^{4n}}{1+m+4n} \right. \\
&\quad \left. + \frac{b^2 Bd^2 x^{5n}}{1+m+5n} \right)
\end{aligned}$$

[In] Integrate[(e*x)^m*(a + b*x^n)^2*(A + B*x^n)*(c + d*x^n)^2,x]

```
[Out] x*(e*x)^m*((a^2*A*c^2)/(1 + m) + (a*c*(a*B*c + 2*A*(b*c + a*d))*x^n)/(1 + m
+ n) + ((2*a*B*c*(b*c + a*d) + A*(b^2*c^2 + 4*a*b*c*d + a^2*d^2))*x^(2*n))
/(1 + m + 2*n) + ((a^2*B*d^2 + 2*a*b*d*(2*B*c + A*d) + b^2*c*(B*c + 2*A*d))
*x^(3*n))/(1 + m + 3*n) + (b*d*(2*b*B*c + A*b*d + 2*a*B*d))*x^(4*n))/(1 + m
+ 4*n) + (b^2*B*d^2*x^(5*n))/(1 + m + 5*n))
```

Maple [C] (warning: unable to verify)

Result contains higher order function than in optimal. Order 9 vs. order 3.

Time = 3.33 (sec) , antiderivative size = 5875, normalized size of antiderivative = 24.79

method	result	size
risch	Expression too large to display	5875
parallelrisc	Expression too large to display	7994

```
[In] int((e*x)^m*(a+b*x^n)^2*(A+B*x^n)*(c+d*x^n)^2,x,method=_RETURNVERBOSE)
```

```
[Out] result too large to display
```

Fricas [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 3515 vs. $2(237) = 474$.

Time = 0.37 (sec) , antiderivative size = 3515, normalized size of antiderivative = 14.83

$$\int (ex)^m (a + bx^n)^2 (A + Bx^n) (c + dx^n)^2 dx = \text{Too large to display}$$

```
[In] integrate((e*x)^m*(a+b*x^n)^2*(A+B*x^n)*(c+d*x^n)^2,x, algorithm="fricas")
```

```
[Out] ((B*b^2*d^2*m^5 + 5*B*b^2*d^2*m^4 + 10*B*b^2*d^2*m^3 + 10*B*b^2*d^2*m^2 + 5
*B*b^2*d^2*m + B*b^2*d^2 + 24*(B*b^2*d^2*m + B*b^2*d^2)*n^4 + 50*(B*b^2*d^2
*m^2 + 2*B*b^2*d^2*m + B*b^2*d^2)*n^3 + 35*(B*b^2*d^2*m^3 + 3*B*b^2*d^2*m^2
+ 3*B*b^2*d^2*m + B*b^2*d^2)*n^2 + 10*(B*b^2*d^2*m^4 + 4*B*b^2*d^2*m^3 + 6
*B*b^2*d^2*m^2 + 4*B*b^2*d^2*m + B*b^2*d^2)*n)*x*x^(5*n)*e^(m*log(e) + m*lo
g(x)) + ((2*B*b^2*c*d + (2*B*a*b + A*b^2)*d^2)*m^5 + 2*B*b^2*c*d + 5*(2*B*b
^2*c*d + (2*B*a*b + A*b^2)*d^2)*m^4 + 30*(2*B*b^2*c*d + (2*B*a*b + A*b^2)*d
^2 + (2*B*b^2*c*d + (2*B*a*b + A*b^2)*d^2)*m)*n^4 + 10*(2*B*b^2*c*d + (2*B
a*b + A*b^2)*d^2)*m^3 + 61*(2*B*b^2*c*d + (2*B*a*b + A*b^2)*d^2 + (2*B*b^2
c*d + (2*B*a*b + A*b^2)*d^2)*m^2 + 2*(2*B*b^2*c*d + (2*B*a*b + A*b^2)*d^2)
*m)*n^3 + (2*B*a*b + A*b^2)*d^2 + 10*(2*B*b^2*c*d + (2*B*a*b + A*b^2)*d^2)*m
^2 + 41*(2*B*b^2*c*d + (2*B*b^2*c*d + (2*B*a*b + A*b^2)*d^2)*m^3 + (2*B*a*b
+ A*b^2)*d^2 + 3*(2*B*b^2*c*d + (2*B*a*b + A*b^2)*d^2)*m^2 + 3*(2*B*b^2*c
d + (2*B*a*b + A*b^2)*d^2)*m)*n^2 + 5*(2*B*b^2*c*d + (2*B*a*b + A*b^2)*d^2)
*m + 11*(2*B*b^2*c*d + (2*B*b^2*c*d + (2*B*a*b + A*b^2)*d^2)*m^4 + 4*(2*B*b
```

$$\begin{aligned}
& ^2*c*d + (2*B*a*b + A*b^2)*d^2)*m^3 + (2*B*a*b + A*b^2)*d^2 + 6*(2*B*b^2*c*d \\
& d + (2*B*a*b + A*b^2)*d^2)*m^2 + 4*(2*B*b^2*c*d + (2*B*a*b + A*b^2)*d^2)*m \\
& *n)*x^x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + ((B*b^2*c^2 + 2*(2*B*a*b + A*b^2)*c \\
& *d + (B*a^2 + 2*A*a*b)*d^2)*m^5 + B*b^2*c^2 + 5*(B*b^2*c^2 + 2*(2*B*a*b + A \\
& *b^2)*c*d + (B*a^2 + 2*A*a*b)*d^2)*m^4 + 40*(B*b^2*c^2 + 2*(2*B*a*b + A*b^2 \\
&)*c*d + (B*a^2 + 2*A*a*b)*d^2 + (B*b^2*c^2 + 2*(2*B*a*b + A*b^2)*c*d + (B*a \\
& ^2 + 2*A*a*b)*d^2)*m)*n^4 + 10*(B*b^2*c^2 + 2*(2*B*a*b + A*b^2)*c*d + (B*a^ \\
& 2 + 2*A*a*b)*d^2)*m^3 + 78*(B*b^2*c^2 + 2*(2*B*a*b + A*b^2)*c*d + (B*a^2 + \\
& 2*A*a*b)*d^2 + (B*b^2*c^2 + 2*(2*B*a*b + A*b^2)*c*d + (B*a^2 + 2*A*a*b)*d^2 \\
&)*m^2 + 2*(B*b^2*c^2 + 2*(2*B*a*b + A*b^2)*c*d + (B*a^2 + 2*A*a*b)*d^2)*m)* \\
& n^3 + 2*(2*B*a*b + A*b^2)*c*d + (B*a^2 + 2*A*a*b)*d^2 + 10*(B*b^2*c^2 + 2*(\\
& 2*B*a*b + A*b^2)*c*d + (B*a^2 + 2*A*a*b)*d^2)*m^2 + 49*(B*b^2*c^2 + (B*b^2* \\
& c^2 + 2*(2*B*a*b + A*b^2)*c*d + (B*a^2 + 2*A*a*b)*d^2)*m^3 + 2*(2*B*a*b + A \\
& *b^2)*c*d + (B*a^2 + 2*A*a*b)*d^2 + 3*(B*b^2*c^2 + 2*(2*B*a*b + A*b^2)*c*d \\
& + (B*a^2 + 2*A*a*b)*d^2)*m^2 + 3*(B*b^2*c^2 + 2*(2*B*a*b + A*b^2)*c*d + (B \\
& a^2 + 2*A*a*b)*d^2)*m)*n^2 + 5*(B*b^2*c^2 + 2*(2*B*a*b + A*b^2)*c*d + (B*a^ \\
& 2 + 2*A*a*b)*d^2)*m + 12*(B*b^2*c^2 + (B*b^2*c^2 + 2*(2*B*a*b + A*b^2)*c*d \\
& + (B*a^2 + 2*A*a*b)*d^2)*m^4 + 4*(B*b^2*c^2 + 2*(2*B*a*b + A*b^2)*c*d + (B \\
& a^2 + 2*A*a*b)*d^2)*m^3 + 2*(2*B*a*b + A*b^2)*c*d + (B*a^2 + 2*A*a*b)*d^2 + \\
& 6*(B*b^2*c^2 + 2*(2*B*a*b + A*b^2)*c*d + (B*a^2 + 2*A*a*b)*d^2)*m^2 + 4*(B \\
& *b^2*c^2 + 2*(2*B*a*b + A*b^2)*c*d + (B*a^2 + 2*A*a*b)*d^2)*m)*n)*x^x^{(3*n)} \\
& *e^{(m*\log(e) + m*\log(x))} + ((A*a^2*d^2 + (2*B*a*b + A*b^2)*c^2 + 2*(B*a^2 + \\
& 2*A*a*b)*c*d)*m^5 + A*a^2*d^2 + 5*(A*a^2*d^2 + (2*B*a*b + A*b^2)*c^2 + 2*(\\
& B*a^2 + 2*A*a*b)*c*d)*m^4 + 60*(A*a^2*d^2 + (2*B*a*b + A*b^2)*c^2 + 2*(B*a^ \\
& 2 + 2*A*a*b)*c*d + (A*a^2*d^2 + (2*B*a*b + A*b^2)*c^2 + 2*(B*a^2 + 2*A*a*b) \\
& *c*d)*m)*n^4 + 10*(A*a^2*d^2 + (2*B*a*b + A*b^2)*c^2 + 2*(B*a^2 + 2*A*a*b)* \\
& c*d)*m^3 + 107*(A*a^2*d^2 + (2*B*a*b + A*b^2)*c^2 + 2*(B*a^2 + 2*A*a*b)*c*d \\
& + (A*a^2*d^2 + (2*B*a*b + A*b^2)*c^2 + 2*(B*a^2 + 2*A*a*b)*c*d)*m^2 + 2*(A \\
& *a^2*d^2 + (2*B*a*b + A*b^2)*c^2 + 2*(B*a^2 + 2*A*a*b)*c*d)*m)*n^3 + (2*B*a \\
& *b + A*b^2)*c^2 + 2*(B*a^2 + 2*A*a*b)*c*d + 10*(A*a^2*d^2 + (2*B*a*b + A*b^ \\
& 2)*c^2 + 2*(B*a^2 + 2*A*a*b)*c*d)*m^2 + 59*(A*a^2*d^2 + (A*a^2*d^2 + (2*B*a \\
& *b + A*b^2)*c^2 + 2*(B*a^2 + 2*A*a*b)*c*d)*m^3 + (2*B*a*b + A*b^2)*c^2 + 2* \\
& (B*a^2 + 2*A*a*b)*c*d + 3*(A*a^2*d^2 + (2*B*a*b + A*b^2)*c^2 + 2*(B*a^2 + 2 \\
& *A*a*b)*c*d)*m^2 + 3*(A*a^2*d^2 + (2*B*a*b + A*b^2)*c^2 + 2*(B*a^2 + 2*A*a* \\
& b)*c*d)*m)*n^2 + 5*(A*a^2*d^2 + (2*B*a*b + A*b^2)*c^2 + 2*(B*a^2 + 2*A*a*b) \\
& *c*d)*m + 13*(A*a^2*d^2 + (A*a^2*d^2 + (2*B*a*b + A*b^2)*c^2 + 2*(B*a^2 + 2 \\
& *A*a*b)*c*d)*m^4 + 4*(A*a^2*d^2 + (2*B*a*b + A*b^2)*c^2 + 2*(B*a^2 + 2*A*a* \\
& b)*c*d)*m^3 + (2*B*a*b + A*b^2)*c^2 + 2*(B*a^2 + 2*A*a*b)*c*d + 6*(A*a^2*d^ \\
& 2 + (2*B*a*b + A*b^2)*c^2 + 2*(B*a^2 + 2*A*a*b)*c*d)*m^2 + 4*(A*a^2*d^2 + (\\
& 2*B*a*b + A*b^2)*c^2 + 2*(B*a^2 + 2*A*a*b)*c*d)*m)*n)*x^x^{(2*n)}*e^{(m*\log(e) \\
& + m*\log(x))} + ((2*A*a^2*c*d + (B*a^2 + 2*A*a*b)*c^2)*m^5 + 2*A*a^2*c*d + 5 \\
& *(2*A*a^2*c*d + (B*a^2 + 2*A*a*b)*c^2)*m^4 + 120*(2*A*a^2*c*d + (B*a^2 + 2* \\
& A*a*b)*c^2 + (2*A*a^2*c*d + (B*a^2 + 2*A*a*b)*c^2)*m)*n^4 + 10*(2*A*a^2*c*d \\
& + (B*a^2 + 2*A*a*b)*c^2)*m^3 + 154*(2*A*a^2*c*d + (B*a^2 + 2*A*a*b)*c^2 + \\
& (2*A*a^2*c*d + (B*a^2 + 2*A*a*b)*c^2)*m^2 + 2*(2*A*a^2*c*d + (B*a^2 + 2*A*a
\end{aligned}$$

$$\begin{aligned}
& *b)^*c^2)*m)*n^3 + (B*a^2 + 2*A*a*b)*c^2 + 10*(2*A*a^2*c*d + (B*a^2 + 2*A*a* \\
& b)*c^2)*m^2 + 71*(2*A*a^2*c*d + (2*A*a^2*c*d + (B*a^2 + 2*A*a*b)*c^2)*m^3 + \\
& (B*a^2 + 2*A*a*b)*c^2 + 3*(2*A*a^2*c*d + (B*a^2 + 2*A*a*b)*c^2)*m^2 + 3*(2 \\
& *A*a^2*c*d + (B*a^2 + 2*A*a*b)*c^2)*m)*n^2 + 5*(2*A*a^2*c*d + (B*a^2 + 2*A* \\
& a*b)*c^2)*m + 14*(2*A*a^2*c*d + (2*A*a^2*c*d + (B*a^2 + 2*A*a*b)*c^2)*m^4 + \\
& 4*(2*A*a^2*c*d + (B*a^2 + 2*A*a*b)*c^2)*m^3 + (B*a^2 + 2*A*a*b)*c^2 + 6*(2 \\
& *A*a^2*c*d + (B*a^2 + 2*A*a*b)*c^2)*m^2 + 4*(2*A*a^2*c*d + (B*a^2 + 2*A*a*b \\
&)*c^2)*m)*n)*x*x^n*e^{(m*\log(e) + m*\log(x))} + (A*a^2*c^2*m^5 + 120*A*a^2*c^2 \\
& *n^5 + 5*A*a^2*c^2*m^4 + 10*A*a^2*c^2*m^3 + 10*A*a^2*c^2*m^2 + 5*A*a^2*c^2*m \\
& m + A*a^2*c^2 + 274*(A*a^2*c^2*m + A*a^2*c^2)*n^4 + 225*(A*a^2*c^2*m^2 + 2* \\
& A*a^2*c^2*m + A*a^2*c^2)*n^3 + 85*(A*a^2*c^2*m^3 + 3*A*a^2*c^2*m^2 + 3*A*a^ \\
& 2*c^2*m + A*a^2*c^2)*n^2 + 15*(A*a^2*c^2*m^4 + 4*A*a^2*c^2*m^3 + 6*A*a^2*c^ \\
& 2*m^2 + 4*A*a^2*c^2*m + A*a^2*c^2)*n)*x*e^{(m*\log(e) + m*\log(x))}/(m^6 + 120 \\
& *(m + 1)*n^5 + 6*m^5 + 274*(m^2 + 2*m + 1)*n^4 + 15*m^4 + 225*(m^3 + 3*m^2 \\
& + 3*m + 1)*n^3 + 20*m^3 + 85*(m^4 + 4*m^3 + 6*m^2 + 4*m + 1)*n^2 + 15*m^2 + \\
& 15*(m^5 + 5*m^4 + 10*m^3 + 10*m^2 + 5*m + 1)*n + 6*m + 1)
\end{aligned}$$

Sympy [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 72500 vs. $2(233) = 466$.

Time = 14.26 (sec) , antiderivative size = 72500, normalized size of antiderivative = 305.91

$$\int (ex)^m (a + bx^n)^2 (A + Bx^n) (c + dx^n)^2 dx = \text{Too large to display}$$

[In] integrate((e*x)**m*(a+b*x**n)**2*(A+B*x**n)*(c+d*x**n)**2,x)

[Out] Piecewise(((A + B)*(a + b)**2*(c + d)**2*log(x)/e, Eq(m, -1) & Eq(n, 0)), ((A*a**2*c**2*log(x) + 2*A*a**2*c*d*x**n/n + A*a**2*d**2*x**(2*n)/(2*n) + 2*A*a*b*c**2*x**n/n + 2*A*a*b*c*d*x**(2*n)/n + 2*A*a*b*d**2*x**(3*n)/(3*n) + A*b**2*c**2*x**(2*n)/(2*n) + 2*A*b**2*c*d*x**(3*n)/(3*n) + A*b**2*d**2*x**(4*n)/(4*n) + B*a**2*c**2*x**n/n + B*a**2*c*d*x**(2*n)/n + B*a**2*d**2*x**(3*n)/(3*n) + B*a*b*c**2*x**(2*n)/n + 4*B*a*b*c*d*x**(3*n)/(3*n) + B*a*b*d**2*x**(4*n)/(2*n) + B*b**2*c**2*x**(3*n)/(3*n) + B*b**2*c*d*x**(4*n)/(2*n) + B*b**2*d**2*x**(5*n)/(5*n))/e, Eq(m, -1)), (A*a**2*c**2*Piecewise((0**(-5*n - 1)*x, Eq(e, 0)), (Piecewise((-1/(5*n*(e*x)**(5*n)), Ne(n, 0)), (log(e*x), True))/e, True)) + 2*A*a**2*c*d*Piecewise((-x*x**n*(e*x)**(-5*n - 1)/(4*n), Ne(n, 0)), (x*x**n*(e*x)**(-5*n - 1)*log(x), True)) + A*a**2*d**2*Piecewise((-x*x**(2*n)*(e*x)**(-5*n - 1)/(3*n), Ne(n, 0)), (x*x**(2*n)*(e*x)**(-5*n - 1)*log(x), True)) + 2*A*a*b*c**2*Piecewise((-x*x**n*(e*x)**(-5*n - 1)/(4*n), Ne(n, 0)), (x*x**n*(e*x)**(-5*n - 1)*log(x), True)) + 4*A*a*b*c*d*Piecewise((-x*x**(2*n)*(e*x)**(-5*n - 1)/(3*n), Ne(n, 0)), (x*x**(2*n)*(e*x)**(-5*n - 1)*log(x), True)) + 2*A*a*b*d**2*Piecewise((-x*x**(3*n)*(e*x)**(-5*n - 1)/(2*n), Ne(n, 0)), (x*x**(3*n)*(e*x)**(-5*n - 1)*log(x), True)) + A*b**2*c**2*Piecewise((-x*x**(2*n)*(e*x)**(-5*n - 1)/(3*n), Ne(n, 0)), (x*x**


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(x**n*(e*x)**(-3*n - 1)*log(x), True)) + A**2*d**2*Piecewise((-x**(2*
n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x**(2*n)*(e*x)**(-3*n - 1)*log(x), Tr
ue)) + 2*A*a*b*c**2*Piecewise((-x**n*(e*x)**(-3*n - 1)/(2*n), Ne(n, 0)),
(x**n*(e*x)**(-3*n - 1)*log(x), True)) + 4*A*a*b*c*d*Piecewise((-x**(2*
n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x**(2*n)*(e*x)**(-3*n - 1)*log(x), Tr
ue)) + 2*A*a*b*d**2*x**n*(e*x)**(-3*n - 1)*log(x) + A*b**2*c**2*Piece
wise((-x**(2*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x**(2*n)*(e*x)**(-3*n
- 1)*log(x), True)) + 2*A*b**2*c*d*x**n*(e*x)**(-3*n - 1)*log(x) + A*
b**2*d**2*Piecewise((x**(4*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x**(4*n)
*(e*x)**(-3*n - 1)*log(x), True)) + B**2*c**2*Piecewise((-x**n*(e*x)**(
-3*n - 1)/(2*n), Ne(n, 0)), (x**n*(e*x)**(-3*n - 1)*log(x), True)) + 2*B*
a**2*c*d*Piecewise((-x**(2*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x**(2*n)
*(e*x)**(-3*n - 1)*log(x), True)) + B**2*d**2*x**n*(e*x)**(-3*n - 1
)*log(x) + 2*B*a*b*c**2*Piecewise((-x**(2*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0
)), (x**(2*n)*(e*x)**(-3*n - 1)*log(x), True)) + 4*B*a*b*c*d*x**n*(e
*x)**(-3*n - 1)*log(x) + 2*B*a*b*d**2*Piecewise((x**(4*n)*(e*x)**(-3*n -
1)/n, Ne(n, 0)), (x**(4*n)*(e*x)**(-3*n - 1)*log(x), True)) + B*b**2*c**
2*x**n*(e*x)**(-3*n - 1)*log(x) + 2*B*b**2*c*d*Piecewise((x**(4*n)*
(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x**(4*n)*(e*x)**(-3*n - 1)*log(x), True)
) + B*b**2*d**2*Piecewise((x**(5*n)*(e*x)**(-3*n - 1)/(2*n), Ne(n, 0)), (
x**(5*n)*(e*x)**(-3*n - 1)*log(x), True)), Eq(m, -3*n - 1)), (A**2*c**2
*Piecewise((0**(-2*n - 1)*x, Eq(e, 0)), (Piecewise((-1/(2*n*(e*x)**(2*n)),
Ne(n, 0)), (log(e*x), True))/e, True)) + 2*A**2*c*d*Piecewise((-x**n*(e
*x)**(-2*n - 1)/n, Ne(n, 0)), (x**n*(e*x)**(-2*n - 1)*log(x), True)) + A*
a**2*d**2*x**n*(e*x)**(-2*n - 1)*log(x) + 2*A*a*b*c**2*Piecewise((-x
**n*(e*x)**(-2*n - 1)/n, Ne(n, 0)), (x**n*(e*x)**(-2*n - 1)*log(x), True
)) + 4*A*a*b*c*d*x**n*(e*x)**(-2*n - 1)*log(x) + 2*A*a*b*d**2*Piecewi
se((x**n*(e*x)**(-2*n - 1)/n, Ne(n, 0)), (x**n*(e*x)**(-2*n - 1)
)*log(x), True)) + A*b**2*c**2*x**n*(e*x)**(-2*n - 1)*log(x) + 2*A*b*
*2*c*d*Piecewise((x**n*(e*x)**(-2*n - 1)/n, Ne(n, 0)), (x**n*(e
*x)**(-2*n - 1)*log(x), True)) + A*b**2*d**2*Piecewise((x**n*(e*x)**(
-2*n - 1)/(2*n), Ne(n, 0)), (x**n*(e*x)**(-2*n - 1)*log(x), True)) +
B**2*c**2*Piecewise((-x**n*(e*x)**(-2*n - 1)/n, Ne(n, 0)), (x**n*(e*x)
)**(-2*n - 1)*log(x), True)) + 2*B**2*c*d*x**n*(e*x)**(-2*n - 1)*lo
g(x) + B**2*d**2*Piecewise((x**n*(e*x)**(-2*n - 1)/n, Ne(n, 0)), (x
**n*(e*x)**(-2*n - 1)*log(x), True)) + 2*B*a*b*c**2*x**n*(e*x)**
(-2*n - 1)*log(x) + 4*B*a*b*c*d*Piecewise((x**n*(e*x)**(-2*n - 1)/n,
Ne(n, 0)), (x**n*(e*x)**(-2*n - 1)*log(x), True)) + 2*B*a*b*d**2*Pie
cewise((x**n*(e*x)**(-2*n - 1)/(2*n), Ne(n, 0)), (x**n*(e*x)**(
-2*n - 1)*log(x), True)) + B*b**2*c**2*Piecewise((x**n*(e*x)**(-2*n -
1)/n, Ne(n, 0)), (x**n*(e*x)**(-2*n - 1)*log(x), True)) + 2*B*b**2*c
*d*Piecewise((x**n*(e*x)**(-2*n - 1)/(2*n), Ne(n, 0)), (x**n*(e
*x)**(-2*n - 1)*log(x), True)) + B*b**2*d**2*Piecewise((x**n*(e*x)**(
-2*n - 1)/(3*n), Ne(n, 0)), (x**n*(e*x)**(-2*n - 1)*log(x), True)), E
q(m, -2*n - 1)), (A**2*c**2*Piecewise((0**(-n - 1)*x, Eq(e, 0)), (Piecwi

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$$\begin{aligned} & \text{se}((-1/(n*(e^x)**n), \text{Ne}(n, 0)), (\log(e^x), \text{True}))/e, \text{True})) + 2*A*a**2*c*d* \\ & x*x**n*(e^x)**(-n - 1)*\log(x) + A*a**2*d**2*\text{Piecewise}((x*x**(2*n)*(e^x)**(- \\ & n - 1)/n, \text{Ne}(n, 0)), (x*x**(2*n)*(e^x)**(-n - 1)*\log(x), \text{True})) + 2*A*a*b*c \\ & **2*x*x**n*(e^x)**(-n - 1)*\log(x) + 4*A*a*b*c*d*\text{Piecewise}((x*x**(2*n)*(e^x) \\ & **(-n - 1)/n, \text{Ne}(n, 0)), (x*x**(2*n)*(e^x)**(-n - 1)*\log(x), \text{True})) + 2*A*a \\ & *b*d**2*\text{Piecewise}((x*x**(3*n)*(e^x)**(-n - 1)/(2*n), \text{Ne}(n, 0)), (x*x**(3*n) \\ & *(e^x)**(-n - 1)*\log(x), \text{True})) + A*b**2*c**2*\text{Piecewise}((x*x**(2*n)*(e^x)** \\ & (-n - 1)/n, \text{Ne}(n, 0)), (x*x**(2*n)*(e^x)**(-n - 1)*\log(x), \text{True})) + 2*A*b** \\ & 2*c*d*\text{Piecewise}((x*x**(3*n)*(e^x)**(-n - 1)/(2*n), \text{Ne}(n, 0)), (x*x**(3*n)*(\\ & e^x)**(-n - 1)*\log(x), \text{True})) + A*b**2*d**2*\text{Piecewise}((x*x**(4*n)*(e^x)**(- \\ & n - 1)/(3*n), \text{Ne}(n, 0)), (x*x**(4*n)*(e^x)**(-n - 1)*\log(x), \text{True})) + B*a** \\ & 2*c**2*x*x**n*(e^x)**(-n - 1)*\log(x) + 2*B*a**2*c*d*\text{Piecewise}((x*x**(2*n)*(\\ & e^x)**(-n - 1)/n, \text{Ne}(n, 0)), (x*x**(2*n)*(e^x)**(-n - 1)*\log(x), \text{True})) + B \\ & *a**2*d**2*\text{Piecewise}((x*x**(3*n)*(e^x)**(-n - 1)/(2*n), \text{Ne}(n, 0)), (x*x**(3 \\ & *n)*(e^x)**(-n - 1)*\log(x), \text{True})) + 2*B*a*b*c**2*\text{Piecewise}((x*x**(2*n)*(e \\ & x)**(-n - 1)/n, \text{Ne}(n, 0)), (x*x**(2*n)*(e^x)**(-n - 1)*\log(x), \text{True})) + 4*B \\ & *a*b*c*d*\text{Piecewise}((x*x**(3*n)*(e^x)**(-n - 1)/(2*n), \text{Ne}(n, 0)), (x*x**(3*n) \\ &)*(e^x)**(-n - 1)*\log(x), \text{True})) + 2*B*a*b*d**2*\text{Piecewise}((x*x**(4*n)*(e^x) \\ & **(-n - 1)/(3*n), \text{Ne}(n, 0)), (x*x**(4*n)*(e^x)**(-n - 1)*\log(x), \text{True})) + B \\ & *b**2*c**2*\text{Piecewise}((x*x**(3*n)*(e^x)**(-n - 1)/(2*n), \text{Ne}(n, 0)), (x*x**(3 \\ & *n)*(e^x)**(-n - 1)*\log(x), \text{True})) + 2*B*b**2*c*d*\text{Piecewise}((x*x**(4*n)*(e \\ & x)**(-n - 1)/(3*n), \text{Ne}(n, 0)), (x*x**(4*n)*(e^x)**(-n - 1)*\log(x), \text{True})) + \\ & B*b**2*d**2*\text{Piecewise}((x*x**(5*n)*(e^x)**(-n - 1)/(4*n), \text{Ne}(n, 0)), (x*x** \\ & (5*n)*(e^x)**(-n - 1)*\log(x), \text{True})), \text{Eq}(m, -n - 1)), (A*a**2*c**2*m**5*x*(\\ & e^x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 2 \\ & 25*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m \\ & **2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + \\ & 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + \\ & 85*n**2 + 15*n + 1) + 15*A*a**2*c**2*m**4*n*x*(e^x)**m/(m**6 + 15*m**5*n + \\ & 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 \\ & + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 1 \\ & 50*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 7 \\ & 5*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 5*A*a* \\ & *2*c**2*m**4*x*(e^x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4 \\ & *n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m \\ & **2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n** \\ & 5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n* \\ & *4 + 225*n**3 + 85*n**2 + 15*n + 1) + 85*A*a**2*c**2*m**3*n**2*x*(e^x)**m/(\\ & m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n \\ & **3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 \\ & + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n* \\ & *3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + \\ & 15*n + 1) + 60*A*a**2*c**2*m**3*n*x*(e^x)**m/(m**6 + 15*m**5*n + 6*m**5 + \\ & 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m* \\ & *3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n
\end{aligned}$$

$$\begin{aligned}
& + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6 \\
& *m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 10*A*a**2*c**2* \\
& m**3*x*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15* \\
& m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 \\
& + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548* \\
& m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225 \\
& *n**3 + 85*n**2 + 15*n + 1) + 225*A*a**2*c**2*m**2*n**3*x*(e*x)**m/(m**6 + \\
& 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 3 \\
& 40*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m \\
& **2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 34 \\
& 0*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + \\
& 1) + 255*A*a**2*c**2*m**2*n**2*x*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85* \\
& m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3* \\
& n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + \\
& 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m \\
& + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 90*A*a**2*c**2*m** \\
& 2*n*x*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m \\
& **4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 \\
& + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m \\
& *n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225* \\
& n**3 + 85*n**2 + 15*n + 1) + 10*A*a**2*c**2*m**2*x*(e*x)**m/(m**6 + 15*m**5 \\
& *n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3 \\
& *n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n** \\
& 2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n** \\
& 2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 2 \\
& 74*A*a**2*c**2*m*n**4*x*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 \\
& + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m** \\
& 3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + \\
& 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 \\
& + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 450*A*a**2*c**2*m*n**3*x*(e \\
& x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225 \\
& *m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m** \\
& 2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 6 \\
& 75*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85 \\
& *n**2 + 15*n + 1) + 255*A*a**2*c**2*m*n**2*x*(e*x)**m/(m**6 + 15*m**5*n + 6 \\
& *m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 \\
& + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 15 \\
& 0*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75 \\
& *m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 60*A*a \\
& *2*c**2*m*n*x*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4* \\
& n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m \\
& **2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 \\
& + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n** \\
& 4 + 225*n**3 + 85*n**2 + 15*n + 1) + 5*A*a**2*c**2*m*x*(e*x)**m/(m**6 + 15* \\
& m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*
\end{aligned}$$

$$\begin{aligned}
& m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2} \\
& n^{**2} + 150m^{**2}n + 15m^{**2} + 120m^{**n}n^{**5} + 548m^{**n}n^{**4} + 675m^{**n}n^{**3} + 340m^{**n} \\
& n^{**2} + 75m^{**n} + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) \\
& + 120A^{**a}c^{**2}n^{**5}x(e^{**x})^{**m}/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} \\
& + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} \\
& + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} \\
& + 120m^{**n}n^{**5} + 548m^{**n}n^{**4} + 675m^{**n}n^{**3} + 340m^{**n}n^{**2} + 75m^{**n} + 6m + 120n^{**5} \\
& + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 274A^{**a}c^{**2}n^{**4}x(e^{**x})^{**m}/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} \\
& + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2} \\
& n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m^{**n}n^{**5} + 548m^{**n}n^{**4} + 6 \\
& 75m^{**n}n^{**3} + 340m^{**n}n^{**2} + 75m^{**n} + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85 \\
& n^{**2} + 15n + 1) + 225A^{**a}c^{**2}n^{**3}x(e^{**x})^{**m}/(m^{**6} + 15m^{**5}n + 6m^{**5} \\
& + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + \\
& 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2} \\
& n + 15m^{**2} + 120m^{**n}n^{**5} + 548m^{**n}n^{**4} + 675m^{**n}n^{**3} + 340m^{**n}n^{**2} + 75m^{**n} \\
& + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 85A^{**a}c^{**2} \\
& n^{**2}x(e^{**x})^{**m}/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n \\
& + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 274m^{**2} \\
& n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m^{**n}n^{**5} \\
& + 548m^{**n}n^{**4} + 675m^{**n}n^{**3} + 340m^{**n}n^{**2} + 75m^{**n} + 6m + 120n^{**5} + 274n^{**4} \\
& + 225n^{**3} + 85n^{**2} + 15n + 1) + 15A^{**a}c^{**2}n^{**x}x(e^{**x})^{**m}/(m^{**6} + 15m^{**5} \\
& n + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3} \\
& n^{**2} + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2} \\
& n^{**2} + 150m^{**2}n + 15m^{**2} + 120m^{**n}n^{**5} + 548m^{**n}n^{**4} + 675m^{**n}n^{**3} + 340m^{**n} \\
& n^{**2} + 75m^{**n} + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) \\
& + A^{**a}c^{**2}n^{**x}x(e^{**x})^{**m}/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4} \\
& n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 274 \\
& m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m^{**n} \\
& n^{**5} + 548m^{**n}n^{**4} + 675m^{**n}n^{**3} + 340m^{**n}n^{**2} + 75m^{**n} + 6m + 120n^{**5} + 274n^{**4} \\
& + 225n^{**3} + 85n^{**2} + 15n + 1) + 2A^{**a}c^{**d}m^{**5}x^{**x}n(e^{**x})^{**m}/(\\
& m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} \\
& + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} \\
& + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m^{**n}n^{**5} + 548m^{**n}n^{**4} + 675m^{**n} \\
& n^{**3} + 340m^{**n}n^{**2} + 75m^{**n} + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + \\
& 15n + 1) + 28A^{**a}c^{**d}m^{**4}n^{**x}x^{**x}n(e^{**x})^{**m}/(m^{**6} + 15m^{**5}n + 6m^{**5} \\
& + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 15 \\
& 0m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2} \\
& n + 15m^{**2} + 120m^{**n}n^{**5} + 548m^{**n}n^{**4} + 675m^{**n}n^{**3} + 340m^{**n}n^{**2} + 75m^{**n} \\
& + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 10A^{**a}c^{**d} \\
& m^{**4}x^{**x}n(e^{**x})^{**m}/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4} \\
& n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 274m^{**2} \\
& n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m^{**n}n^{**5} \\
& + 548m^{**n}n^{**4} + 675m^{**n}n^{**3} + 340m^{**n}n^{**2} + 75m^{**n} + 6m + 120n^{**5} + 274n^{**4} \\
& + 225n^{**3} + 85n^{**2} + 15n + 1) + 142A^{**a}c^{**d}m^{**3}n^{**2}x^{**x}n(e^{**x})
\end{aligned}$$

$$\begin{aligned}
& + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 \\
& + 225*n**3 + 85*n**2 + 15*n + 1) + 112*A*a**2*c*d*m*n*x*x**n*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 \\
& + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 5 \\
& 10*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 \\
& + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15 \\
& *n + 1) + 10*A*a**2*c*d*m*x*x**n*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m \\
& **4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n \\
& + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 1 \\
& 5*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + \\
& 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 240*A*a**2*c*d*n**4 \\
& *x*x**n*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15 \\
& *m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n** \\
& 4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548 \\
& *m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 22 \\
& 5*n**3 + 85*n**2 + 15*n + 1) + 308*A*a**2*c*d*n**3*x*x**n*(e*x)**m/(m**6 + \\
& 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 3 \\
& 40*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m \\
& **2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 34 \\
& 0*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + \\
& 1) + 142*A*a**2*c*d*n**2*x*x**n*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m \\
& **4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n \\
& + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 1 \\
& 5*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + \\
& 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 28*A*a**2*c*d*n*x*x \\
& **n*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m** \\
& 4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + \\
& 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n \\
& **4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n* \\
& *3 + 85*n**2 + 15*n + 1) + 2*A*a**2*c*d*x*x**n*(e*x)**m/(m**6 + 15*m**5*n + \\
& 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n** \\
& 2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + \\
& 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + \\
& 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + A*a** \\
& 2*d**2*m**5*x*x**2*n*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + \\
& 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 \\
& + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 1 \\
& 20*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 \\
& + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 13*A*a**2*d**2*m**4*n*x*x**2 \\
& *n*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m** \\
& 4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + \\
& 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n \\
& **4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n* \\
& *3 + 85*n**2 + 15*n + 1) + 5*A*a**2*d**2*m**4*x*x**2*n*(e*x)**m/(m**6 + 1 \\
& 5*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 34
\end{aligned}$$

$$\begin{aligned}
& m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 177*A*a* \\
& *2*d**2*m*n**2*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n** \\
& 2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m \\
& **3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 \\
& + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n* \\
& *5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 52*A*a**2*d**2*m*n*x*x**(2 \\
& *n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m** \\
& 4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + \\
& 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n \\
& **4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n* \\
& *3 + 85*n**2 + 15*n + 1) + 5*A*a**2*d**2*m*x*x**(2*n)*(e*x)**m/(m**6 + 15*m \\
& **5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m \\
& **3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2* \\
& n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m* \\
& n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) \\
& + 60*A*a**2*d**2*n**4*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m \\
& **4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n \\
& + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 1 \\
& 5*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + \\
& 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 107*A*a**2*d**2*n** \\
& 3*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n \\
& + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m** \\
& 2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 \\
& + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 \\
& + 225*n**3 + 85*n**2 + 15*n + 1) + 59*A*a**2*d**2*n**2*x*x**(2*n)*(e*x)**m \\
& /(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3 \\
& *n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n** \\
& 3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m* \\
& n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 \\
& + 15*n + 1) + 13*A*a**2*d**2*n*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m \\
& **5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + \\
& 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150* \\
& m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m \\
& *n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + A*a**2*d* \\
& *2*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4* \\
& n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m* \\
& **2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 \\
& + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n** \\
& 4 + 225*n**3 + 85*n**2 + 15*n + 1) + 2*A*a*b*c**2*m**5*x*x**n*(e*x)**m/(m** \\
& 6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 \\
& + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 5 \\
& 10*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 \\
& + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15 \\
& *n + 1) + 28*A*a*b*c**2*m**4*n*x*x**n*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + \\
& 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m
\end{aligned}$$

$$\begin{aligned}
& **3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2* \\
& n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + \\
& 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 10*A*a*b*c**2* \\
& m**4*x*x**n*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n \\
& + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2 \\
& *n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + \\
& 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 \\
& + 225*n**3 + 85*n**2 + 15*n + 1) + 142*A*a*b*c**2*m**3*n**2*x*x**n*(e*x)**m \\
& /(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3 \\
& *n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n** \\
& 3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m \\
& n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 \\
& + 15*n + 1) + 112*A*a*b*c**2*m**3*n*x*x**n*(e*x)**m/(m**6 + 15*m**5*n + 6* \\
& m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + \\
& 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150 \\
& *m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75* \\
& m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 20*A*a*b \\
& *c**2*m**3*x*x**n*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m \\
& **4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 27 \\
& 4*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m \\
& n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274 \\
& *n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 308*A*a*b*c**2*m**2*n**3*x*x**n*(e \\
& *x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 22 \\
& 5*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m* \\
& *2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + \\
& 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 8 \\
& 5*n**2 + 15*n + 1) + 426*A*a*b*c**2*m**2*n**2*x*x**n*(e*x)**m/(m**6 + 15*m* \\
& *5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m* \\
& *3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n \\
& **2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n \\
& **2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + \\
& 168*A*a*b*c**2*m**2*n*x*x**n*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4 \\
& *n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + \\
& 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m \\
& **2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 12 \\
& 0*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 20*A*a*b*c**2*m**2*x*x \\
& **n*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m** \\
& 4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + \\
& 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n \\
& **4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n* \\
& *3 + 85*n**2 + 15*n + 1) + 240*A*a*b*c**2*m**n**4*x*x**n*(e*x)**m/(m**6 + 15 \\
& *m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340 \\
& *m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m** \\
& 2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340* \\
& m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1
\end{aligned}$$

$$\begin{aligned}
&) + 616*A*a*b*c**2*m*n**3*x*x**n*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m \\
& **4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n \\
& + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 1 \\
& 5*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + \\
& 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 426*A*a*b*c**2*m*n* \\
& *2*x*x**n*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + \\
& 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n \\
& **4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 5 \\
& 48*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + \\
& 225*n**3 + 85*n**2 + 15*n + 1) + 112*A*a*b*c**2*m*n*x*x**n*(e*x)**m/(m**6 + \\
& 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + \\
& 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510* \\
& m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 3 \\
& 40*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n \\
& + 1) + 10*A*a*b*c**2*m*x*x**n*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4 \\
& *n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + \\
& 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m \\
& **2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 12 \\
& 0*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 240*A*a*b*c**2*n**4*x* \\
& x**n*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m* \\
& *4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + \\
& 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m* \\
& n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n \\
& **3 + 85*n**2 + 15*n + 1) + 308*A*a*b*c**2*n**3*x*x**n*(e*x)**m/(m**6 + 15* \\
& m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340* \\
& m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2 \\
& *n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m \\
& *n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) \\
& + 142*A*a*b*c**2*n**2*x*x**n*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4 \\
& *n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + \\
& 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m \\
& **2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 12 \\
& 0*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 28*A*a*b*c**2*n*x*x**n \\
& *(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + \\
& 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675 \\
& *m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 \\
& + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 \\
& + 85*n**2 + 15*n + 1) + 2*A*a*b*c**2*x*x**n*(e*x)**m/(m**6 + 15*m**5*n + 6* \\
& m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + \\
& 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150 \\
& *m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75* \\
& m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 4*A*a*b* \\
& c*d*m**5*x*x**n*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75 \\
& *m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + \\
& 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*
\end{aligned}$$

$$\begin{aligned}
& m^{n^5} + 548m^{n^4} + 675m^{n^3} + 340m^{n^2} + 75m^n + 6m + 120n^{n^5} + 2 \\
& 74n^{n^4} + 225n^{n^3} + 85n^{n^2} + 15n + 1) + 52A^a b^c d^{m^{n^4}} n^x x^{(2n)} (e^x)^m / (m^{n^6} + 15m^{n^5} n + 6m^{n^5} + 85m^{n^4} n^{n^2} + 75m^{n^4} n + 15m^{n^4} + 2 \\
& 25m^{n^3} n^{n^3} + 340m^{n^3} n^{n^2} + 150m^{n^3} n + 20m^{n^3} + 274m^{n^2} n^{n^4} + 675m^{n^2} n^{n^3} + 510m^{n^2} n^{n^2} + 150m^{n^2} n + 15m^{n^2} + 120m^{n^2} n^{n^5} + 548m^{n^2} n^{n^4} + \\
& 675m^{n^2} n^{n^3} + 340m^{n^2} n^{n^2} + 75m^{n^2} n + 6m + 120n^{n^5} + 274n^{n^4} + 225n^{n^3} + \\
& 85n^{n^2} + 15n + 1) + 20A^a b^c d^{m^{n^4}} x^x x^{(2n)} (e^x)^m / (m^{n^6} + 15m^{n^5} \\
& n + 6m^{n^5} + 85m^{n^4} n^{n^2} + 75m^{n^4} n + 15m^{n^4} + 225m^{n^3} n^{n^3} + 340m^{n^3} \\
& n^{n^2} + 150m^{n^3} n + 20m^{n^3} + 274m^{n^2} n^{n^4} + 675m^{n^2} n^{n^3} + 510m^{n^2} n^{n^2} \\
& 2 + 150m^{n^2} n + 15m^{n^2} + 120m^{n^2} n^{n^5} + 548m^{n^2} n^{n^4} + 675m^{n^2} n^{n^3} + 340m^{n^2} n^{n^2} \\
& 2 + 75m^{n^2} n + 6m + 120n^{n^5} + 274n^{n^4} + 225n^{n^3} + 85n^{n^2} + 15n + 1) + 2 \\
& 36A^a b^c d^{m^{n^3}} n^{n^2} x^x x^{(2n)} (e^x)^m / (m^{n^6} + 15m^{n^5} n + 6m^{n^5} + 85m^{n^4} n^{n^2} + 75m^{n^4} n + 15m^{n^4} + 225m^{n^3} n^{n^3} + 340m^{n^3} n^{n^2} + 150m^{n^3} n \\
& n + 20m^{n^3} + 274m^{n^2} n^{n^4} + 675m^{n^2} n^{n^3} + 510m^{n^2} n^{n^2} + 150m^{n^2} n + 15m^{n^2} + 120m^{n^2} n^{n^5} + 548m^{n^2} n^{n^4} + 675m^{n^2} n^{n^3} + 340m^{n^2} n^{n^2} + 75m^{n^2} n + 6m \\
& + 120n^{n^5} + 274n^{n^4} + 225n^{n^3} + 85n^{n^2} + 15n + 1) + 208A^a b^c d^{m^{n^3}} \\
& n^x x^{(2n)} (e^x)^m / (m^{n^6} + 15m^{n^5} n + 6m^{n^5} + 85m^{n^4} n^{n^2} + 75m^{n^4} n \\
& n + 15m^{n^4} + 225m^{n^3} n^{n^3} + 340m^{n^3} n^{n^2} + 150m^{n^3} n + 20m^{n^3} + 274m^{n^2} \\
& n^{n^4} + 675m^{n^2} n^{n^3} + 510m^{n^2} n^{n^2} + 150m^{n^2} n + 15m^{n^2} + 120m^{n^2} n^{n^5} \\
& + 548m^{n^2} n^{n^4} + 675m^{n^2} n^{n^3} + 340m^{n^2} n^{n^2} + 75m^{n^2} n + 6m + 120n^{n^5} + 274n^{n^4} \\
& 4 + 225n^{n^3} + 85n^{n^2} + 15n + 1) + 40A^a b^c d^{m^{n^3}} x^x x^{(2n)} (e^x)^m / \\
& (m^{n^6} + 15m^{n^5} n + 6m^{n^5} + 85m^{n^4} n^{n^2} + 75m^{n^4} n + 15m^{n^4} + 225m^{n^3} n^{n^3} \\
& n^{n^3} + 340m^{n^3} n^{n^2} + 150m^{n^3} n + 20m^{n^3} + 274m^{n^2} n^{n^4} + 675m^{n^2} n^{n^3} \\
& + 510m^{n^2} n^{n^2} + 150m^{n^2} n + 15m^{n^2} + 120m^{n^2} n^{n^5} + 548m^{n^2} n^{n^4} + 675m^{n^2} n^{n^3} \\
& + 340m^{n^2} n^{n^2} + 75m^{n^2} n + 6m + 120n^{n^5} + 274n^{n^4} + 225n^{n^3} + 85n^{n^2} \\
& + 15n + 1) + 428A^a b^c d^{m^{n^2}} n^{n^3} x^x x^{(2n)} (e^x)^m / (m^{n^6} + 15m^{n^5} n \\
& + 6m^{n^5} + 85m^{n^4} n^{n^2} + 75m^{n^4} n + 15m^{n^4} + 225m^{n^3} n^{n^3} + 340m^{n^3} n^{n^2} \\
& + 150m^{n^3} n + 20m^{n^3} + 274m^{n^2} n^{n^4} + 675m^{n^2} n^{n^3} + 510m^{n^2} n^{n^2} \\
& + 150m^{n^2} n + 15m^{n^2} + 120m^{n^2} n^{n^5} + 548m^{n^2} n^{n^4} + 675m^{n^2} n^{n^3} + 340m^{n^2} n^{n^2} \\
& + 75m^{n^2} n + 6m + 120n^{n^5} + 274n^{n^4} + 225n^{n^3} + 85n^{n^2} + 15n + 1) + 708 \\
& A^a b^c d^{m^{n^2}} n^{n^2} x^x x^{(2n)} (e^x)^m / (m^{n^6} + 15m^{n^5} n + 6m^{n^5} + 85m^{n^4} n^{n^2} + 75m^{n^4} n + 15m^{n^4} + 225m^{n^3} n^{n^3} + 340m^{n^3} n^{n^2} + 150m^{n^3} n \\
& + 20m^{n^3} + 274m^{n^2} n^{n^4} + 675m^{n^2} n^{n^3} + 510m^{n^2} n^{n^2} + 150m^{n^2} n + 15 \\
& m^{n^2} + 120m^{n^2} n^{n^5} + 548m^{n^2} n^{n^4} + 675m^{n^2} n^{n^3} + 340m^{n^2} n^{n^2} + 75m^{n^2} n + 6m + \\
& 120n^{n^5} + 274n^{n^4} + 225n^{n^3} + 85n^{n^2} + 15n + 1) + 312A^a b^c d^{m^{n^2}} n \\
& x^x x^{(2n)} (e^x)^m / (m^{n^6} + 15m^{n^5} n + 6m^{n^5} + 85m^{n^4} n^{n^2} + 75m^{n^4} n \\
& + 15m^{n^4} + 225m^{n^3} n^{n^3} + 340m^{n^3} n^{n^2} + 150m^{n^3} n + 20m^{n^3} + 274m^{n^2} \\
& n^{n^4} + 675m^{n^2} n^{n^3} + 510m^{n^2} n^{n^2} + 150m^{n^2} n + 15m^{n^2} + 120m^{n^2} n^{n^5} + \\
& 548m^{n^2} n^{n^4} + 675m^{n^2} n^{n^3} + 340m^{n^2} n^{n^2} + 75m^{n^2} n + 6m + 120n^{n^5} + 274n^{n^4} \\
& + 225n^{n^3} + 85n^{n^2} + 15n + 1) + 40A^a b^c d^{m^{n^2}} x^x x^{(2n)} (e^x)^m / (m \\
& ^{n^6} + 15m^{n^5} n + 6m^{n^5} + 85m^{n^4} n^{n^2} + 75m^{n^4} n + 15m^{n^4} + 225m^{n^3} n^{n^3} \\
& + 340m^{n^3} n^{n^2} + 150m^{n^3} n + 20m^{n^3} + 274m^{n^2} n^{n^4} + 675m^{n^2} n^{n^3} + \\
& 510m^{n^2} n^{n^2} + 150m^{n^2} n + 15m^{n^2} + 120m^{n^2} n^{n^5} + 548m^{n^2} n^{n^4} + 675m^{n^2} n^{n^3} \\
& + 340m^{n^2} n^{n^2} + 75m^{n^2} n + 6m + 120n^{n^5} + 274n^{n^4} + 225n^{n^3} + 85n^{n^2} + \\
& 15n + 1) + 240A^a b^c d^{m^{n^4}} x^x x^{(2n)} (e^x)^m / (m^{n^6} + 15m^{n^5} n + 6
\end{aligned}$$

$$\begin{aligned}
& m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + \\
& 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150 \\
& *m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75* \\
& m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 856*A*a* \\
& b*c*d*m*n^{**3}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} \\
& + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{** \\
& 3 + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + \\
& 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} \\
& + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 708*A*a*b*c*d*m*n^{**2}*x*x^{**}(2 \\
& *n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{** \\
& 4 + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + \\
& 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n \\
& **4 + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n* \\
& *3 + 85*n^{**2} + 15*n + 1) + 208*A*a*b*c*d*m*n*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**6} + 15 \\
& *m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340 \\
& *m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{** \\
& 2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340* \\
& m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1 \\
&) + 20*A*a*b*c*d*m*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4} \\
& *n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + \\
& 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m \\
& **2 + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 12 \\
& 0*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 240*A*a*b*c*d*n^{**4}*x*x \\
& ***(2*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15 \\
& *m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{** \\
& 4 + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548 \\
& *m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 22 \\
& 5*n^{**3} + 85*n^{**2} + 15*n + 1) + 428*A*a*b*c*d*n^{**3}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**6} \\
& + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} \\
& + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 51 \\
& 0*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + \\
& 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15* \\
& n + 1) + 236*A*a*b*c*d*n^{**2}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} \\
& + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150* \\
& m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2} \\
& *n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + \\
& 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 52*A*a*b*c*d* \\
& n*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n \\
& + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{** \\
& 2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} \\
& + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} \\
& + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 4*A*a*b*c*d*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**6} + \\
& 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + \\
& 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510* \\
& m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 3
\end{aligned}$$

$$\begin{aligned}
& 40*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n \\
& + 1) + 2*A*a*b*d**2*m**5*x*x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 8 \\
& 5*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m** \\
& 3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n \\
& + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6* \\
& m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 24*A*a*b*d**2*m* \\
& *4*n*x*x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m** \\
& 4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274* \\
& m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n* \\
& *5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n \\
& **4 + 225*n**3 + 85*n**2 + 15*n + 1) + 10*A*a*b*d**2*m**4*x*x**(3*n)*(e*x)* \\
& *m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m* \\
& *3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n \\
& **3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675* \\
& m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n* \\
& *2 + 15*n + 1) + 98*A*a*b*d**2*m**3*n**2*x*x**(3*n)*(e*x)**m/(m**6 + 15*m** \\
& 5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m** \\
& 3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n* \\
& *2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n* \\
& *2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + \\
& 96*A*a*b*d**2*m**3*n*x*x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m* \\
& *4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n \\
& + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15 \\
& *m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + \\
& 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 20*A*a*b*d**2*m**3*x \\
& *x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + \\
& 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n \\
& **4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 5 \\
& 48*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + \\
& 225*n**3 + 85*n**2 + 15*n + 1) + 156*A*a*b*d**2*m**2*n**3*x*x**(3*n)*(e*x)* \\
& *m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m* \\
& *3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n \\
& **3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675* \\
& m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n* \\
& *2 + 15*n + 1) + 294*A*a*b*d**2*m**2*n**2*x*x**(3*n)*(e*x)**m/(m**6 + 15*m* \\
& *5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m* \\
& *3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n \\
& **2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n \\
& **2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + \\
& 144*A*a*b*d**2*m**2*n*x*x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85* \\
& m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3* \\
& n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + \\
& 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m \\
& + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 20*A*a*b*d**2*m**2 \\
& *x*x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n
\end{aligned}$$

$$\begin{aligned}
& + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 274m^{**2} \\
& *n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m*n^{**5} + \\
& 548m*n^{**4} + 675m*n^{**3} + 340m*n^{**2} + 75m*n + 6m + 120n^{**5} + 274n^{**4} \\
& + 225n^{**3} + 85n^{**2} + 15n + 1) + 80A*a*b*d^{**2}m*n^{**4}x*x^{**}(3n)*(e*x)**m \\
& /(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3} \\
& *n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**} \\
& 3 + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m*n^{**5} + 548m*n^{**4} + 675m* \\
& n^{**3} + 340m*n^{**2} + 75m*n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} \\
& + 15n + 1) + 312A*a*b*d^{**2}m*n^{**3}x*x^{**}(3n)*(e*x)**m/(m^{**6} + 15m^{**5}n \\
& + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n* \\
& *2 + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + \\
& 150m^{**2}n + 15m^{**2} + 120m*n^{**5} + 548m*n^{**4} + 675m*n^{**3} + 340m*n^{**2} + \\
& 75m*n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 294* \\
& A*a*b*d^{**2}m*n^{**2}x*x^{**}(3n)*(e*x)**m/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4} \\
& n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 2 \\
& 0m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 15m* \\
& *2 + 120m*n^{**5} + 548m*n^{**4} + 675m*n^{**3} + 340m*n^{**2} + 75m*n + 6m + 120 \\
& n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 96A*a*b*d^{**2}m*n*x*x^{**} \\
& (3n)*(e*x)**m/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m \\
& **4 + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} \\
& + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m*n^{**5} + 548m \\
& *n^{**4} + 675m*n^{**3} + 340m*n^{**2} + 75m*n + 6m + 120n^{**5} + 274n^{**4} + 225* \\
& n^{**3} + 85n^{**2} + 15n + 1) + 10A*a*b*d^{**2}m*x*x^{**}(3n)*(e*x)**m/(m^{**6} + 15 \\
& *m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340 \\
& *m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**} \\
& 2*n^{**2} + 150m^{**2}n + 15m^{**2} + 120m*n^{**5} + 548m*n^{**4} + 675m*n^{**3} + 340* \\
& m*n^{**2} + 75m*n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1 \\
&) + 80A*a*b*d^{**2}n^{**4}x*x^{**}(3n)*(e*x)**m/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85* \\
& m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n \\
& + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + \\
& 15m^{**2} + 120m*n^{**5} + 548m*n^{**4} + 675m*n^{**3} + 340m*n^{**2} + 75m*n + 6m \\
& + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 156A*a*b*d^{**2}n^{**} \\
& 3*x*x^{**}(3n)*(e*x)**m/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n \\
& + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 274m^{**} \\
& 2*n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m*n^{**5} \\
& + 548m*n^{**4} + 675m*n^{**3} + 340m*n^{**2} + 75m*n + 6m + 120n^{**5} + 274n^{**4} \\
& + 225n^{**3} + 85n^{**2} + 15n + 1) + 98A*a*b*d^{**2}n^{**2}x*x^{**}(3n)*(e*x)**m/ \\
& (m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n \\
& **3 + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} \\
& + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m*n^{**5} + 548m*n^{**4} + 675m*n \\
& **3 + 340m*n^{**2} + 75m*n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} \\
& + 15n + 1) + 24A*a*b*d^{**2}n*x*x^{**}(3n)*(e*x)**m/(m^{**6} + 15m^{**5}n + 6m^{**} \\
& 5 + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 15 \\
& 0m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m* \\
& *2*n + 15m^{**2} + 120m*n^{**5} + 548m*n^{**4} + 675m*n^{**3} + 340m*n^{**2} + 75m*n
\end{aligned}$$

$$\begin{aligned}
& + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 2*A*a*b*d** \\
& 2*x*x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n \\
& + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m** \\
& 2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 \\
& + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 \\
& + 225*n**3 + 85*n**2 + 15*n + 1) + A*b**2*c**2*m**5*x*x**(2*n)*(e*x)**m/(m \\
& **6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n* \\
& **3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + \\
& 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n** \\
& 3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + \\
& 15*n + 1) + 13*A*b**2*c**2*m**4*n*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6 \\
& *m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 \\
& + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 15 \\
& 0*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75 \\
& *m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 5*A*b** \\
& 2*c**2*m**4*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + \\
& 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 \\
& + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 1 \\
& 20*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 \\
& + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 59*A*b**2*c**2*m**3*n**2*x*x* \\
& *(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15* \\
& m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 \\
& + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548* \\
& m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225 \\
& *n**3 + 85*n**2 + 15*n + 1) + 52*A*b**2*c**2*m**3*n*x*x**(2*n)*(e*x)**m/(m* \\
& *6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n** \\
& 3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + \\
& 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 \\
& + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 1 \\
& 5*n + 1) + 10*A*b**2*c**2*m**3*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m* \\
& **5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 1 \\
& 50*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m \\
& **2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m* \\
& n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 107*A*b**2 \\
& *c**2*m**2*n**3*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n* \\
& **2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20* \\
& m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 \\
& + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n \\
& **5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 177*A*b**2*c**2*m**2*n**2 \\
& *x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n \\
& + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2 \\
& *n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + \\
& 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 \\
& + 225*n**3 + 85*n**2 + 15*n + 1) + 78*A*b**2*c**2*m**2*n*x*x**(2*n)*(e*x)** \\
& m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**
\end{aligned}$$

$$\begin{aligned}
& 3n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} \\
& + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m^{**n}n^{**5} + 548m^{**n}n^{**4} + 675m^{**n} \\
& n^{**3} + 340m^{**n}n^{**2} + 75m^{**n} + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} \\
& + 15n + 1) + 10A*b^{**2}c^{**2}m^{**2}x*x^{**}(2n)*(e*x)^{**m}/(m^{**6} + 15m^{**5}n + \\
& 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} \\
& + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + \\
& 150m^{**2}n + 15m^{**2} + 120m^{**n}n^{**5} + 548m^{**n}n^{**4} + 675m^{**n}n^{**3} + 340m^{**n}n^{**2} + \\
& 75m^{**n} + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 60A* \\
& b^{**2}c^{**2}m^{**n}n^{**4}x*x^{**}(2n)*(e*x)^{**m}/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n \\
& n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20 \\
& m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} \\
& + 120m^{**n}n^{**5} + 548m^{**n}n^{**4} + 675m^{**n}n^{**3} + 340m^{**n}n^{**2} + 75m^{**n} + 6m + 120n^{**5} \\
& + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 214A*b^{**2}c^{**2}m^{**n}n^{**3}x \\
& x^{**}(2n)*(e*x)^{**m}/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + \\
& 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 274m^{**2}n \\
& n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m^{**n}n^{**5} + 5 \\
& 48m^{**n}n^{**4} + 675m^{**n}n^{**3} + 340m^{**n}n^{**2} + 75m^{**n} + 6m + 120n^{**5} + 274n^{**4} + \\
& 225n^{**3} + 85n^{**2} + 15n + 1) + 177A*b^{**2}c^{**2}m^{**n}n^{**2}x*x^{**}(2n)*(e*x)^{**m} \\
& /(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3} \\
& n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} \\
& + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m^{**n}n^{**5} + 548m^{**n}n^{**4} + 675m^{**n} \\
& n^{**3} + 340m^{**n}n^{**2} + 75m^{**n} + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} \\
& + 15n + 1) + 52A*b^{**2}c^{**2}m^{**n}x*x^{**}(2n)*(e*x)^{**m}/(m^{**6} + 15m^{**5}n + 6 \\
& m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} \\
& + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 15 \\
& 0m^{**2}n + 15m^{**2} + 120m^{**n}n^{**5} + 548m^{**n}n^{**4} + 675m^{**n}n^{**3} + 340m^{**n}n^{**2} + 75 \\
& m^{**n} + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 5A*b^{**2} \\
& c^{**2}m^{**x}x^{**}(2n)*(e*x)^{**m}/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75 \\
& m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + \\
& 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m^{**n} \\
& n^{**5} + 548m^{**n}n^{**4} + 675m^{**n}n^{**3} + 340m^{**n}n^{**2} + 75m^{**n} + 6m + 120n^{**5} + 2 \\
& 74n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 60A*b^{**2}c^{**2}n^{**4}x*x^{**}(2n)*(\\
& e*x)^{**m}/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 2 \\
& 25m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2} \\
& n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m^{**n}n^{**5} + 548m^{**n}n^{**4} + \\
& 675m^{**n}n^{**3} + 340m^{**n}n^{**2} + 75m^{**n} + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + \\
& 85n^{**2} + 15n + 1) + 107A*b^{**2}c^{**2}n^{**3}x*x^{**}(2n)*(e*x)^{**m}/(m^{**6} + 15m \\
& n^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m \\
& n^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n \\
& n^{**2} + 150m^{**2}n + 15m^{**2} + 120m^{**n}n^{**5} + 548m^{**n}n^{**4} + 675m^{**n}n^{**3} + 340m^{**n} \\
& n^{**2} + 75m^{**n} + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) \\
& + 59A*b^{**2}c^{**2}n^{**2}x*x^{**}(2n)*(e*x)^{**m}/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m \\
& n^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n \\
& + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 1 \\
& 5m^{**2} + 120m^{**n}n^{**5} + 548m^{**n}n^{**4} + 675m^{**n}n^{**3} + 340m^{**n}n^{**2} + 75m^{**n} + 6m +
\end{aligned}$$

$$\begin{aligned}
& 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 13A^2b^2c^2x^{2n} \\
& x^{2n}(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 1 \\
& 5m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 \\
& + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 54 \\
& 8mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 2 \\
& 25n^3 + 85n^2 + 15n + 1) + A^2b^2c^2x^{2n}(e^x)^m / (m^6 + 15m \\
& m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m \\
& m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2 \\
& n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340m \\
& n^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) \\
& + 2A^2bcd^5x^{3n}(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n \\
& + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n \\
& + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15 \\
& m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + \\
& 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 24A^2bcd^4n \\
& x^{3n}(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n \\
& + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2 \\
& n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + \\
& 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 \\
& + 225n^3 + 85n^2 + 15n + 1) + 10A^2bcd^4x^{3n}(e^x)^m / (\\
& m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n \\
& m^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 \\
& + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^ \\
& m^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + \\
& 15n + 1) + 98A^2bcd^3n^2x^{3n}(e^x)^m / (m^6 + 15m^5n \\
& + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^ \\
& m^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + \\
& 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + \\
& 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 96A \\
& A^2bcd^3nx^{3n}(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n \\
& m^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20 \\
& m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 \\
& 2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120 \\
& n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 20A^2bcd^3x^{3n} \\
& (3n)(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m \\
& m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 \\
& + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548m \\
& n^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225 \\
& n^3 + 85n^2 + 15n + 1) + 156A^2bcd^2n^3x^{3n}(e^x)^m / (\\
& m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n \\
& m^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 \\
& + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^ \\
& m^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + \\
& 15n + 1) + 294A^2bcd^2n^2x^{3n}(e^x)^m / (m^6 + 15m^5n \\
& + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n
\end{aligned}$$

$$\begin{aligned}
& **2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 \\
& + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 \\
& + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 144 \\
& *A*b**2*c*d*m**2*n*x*x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4 \\
& *n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + \\
& 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m \\
& **2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 12 \\
& 0*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 20*A*b**2*c*d*m**2*x*x \\
& ***(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15 \\
& *m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n** \\
& 4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548 \\
& *m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 22 \\
& 5*n**3 + 85*n**2 + 15*n + 1) + 80*A*b**2*c*d*m**n**4*x*x**(3*n)*(e*x)**m/(m* \\
& *6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n** \\
& 3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + \\
& 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 \\
& + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 1 \\
& 5*n + 1) + 312*A*b**2*c*d*m*n**3*x*x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6* \\
& m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + \\
& 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150 \\
& *m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75* \\
& m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 294*A*b* \\
& **2*c*d*m*n**2*x*x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 \\
& + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m* \\
& **3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + \\
& 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n** \\
& 5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 96*A*b**2*c*d*m*n*x*x**(3*n \\
&)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 \\
& + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 67 \\
& 5*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n** \\
& 4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 \\
& + 85*n**2 + 15*n + 1) + 10*A*b**2*c*d*m*x*x**(3*n)*(e*x)**m/(m**6 + 15*m** \\
& 5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m** \\
& 3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n* \\
& **2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n* \\
& **2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + \\
& 80*A*b**2*c*d*n**4*x*x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4 \\
& *n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + \\
& 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m \\
& **2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 12 \\
& 0*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 156*A*b**2*c*d*n**3*x* \\
& x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 1 \\
& 5*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n* \\
& **4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 54 \\
& 8*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 2
\end{aligned}$$

$$\begin{aligned}
& 25n^3 + 85n^2 + 15n + 1) + 98A^2b^2cd^2x^3(e^x)^3/(m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 \\
& + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 \\
& + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 24A^2b^2cd^2x^3(e^x)^3/(m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 2A^2b^2cd^2x^3(e^x)^3/(m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 11A^2b^2d^2m^4n^4x^4(e^x)^4/(m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 5A^2b^2d^2m^4x^4(e^x)^4/(m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 41A^2b^2d^2m^3n^2x^4(e^x)^4/(m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 44A^2b^2d^2m^3n^4x^4(e^x)^4/(m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 10A^2b^2d^2m^3x^4(e^x)^4/(m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 61A^2b^2d^2m^2n^3x^4(e^x)^4/(m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3
\end{aligned}$$

$$\begin{aligned}
& + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + \\
& 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 123*A*b^{**2}*d^{**2}*m^{**2}*n^{**2}*x*x* \\
& *(4*n)*(e*x)**m/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15* \\
& m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} \\
& + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548* \\
& m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225 \\
& *n^{**3} + 85*n^{**2} + 15*n + 1) + 66*A*b^{**2}*d^{**2}*m^{**2}*n*x*x*(4*n)*(e*x)**m/(m* \\
& *6 + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{** \\
& 3 + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + \\
& 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} \\
& + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 1 \\
& 5*n + 1) + 10*A*b^{**2}*d^{**2}*m^{**2}*x*x*(4*n)*(e*x)**m/(m^{**6} + 15*m^{**5}*n + 6*m* \\
& *5 + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 1 \\
& 50*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m \\
& **2*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n \\
& + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 30*A*b^{**2}* \\
& d^{**2}*m*n^{**4}*x*x*(4*n)*(e*x)**m/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + \\
& 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} \\
& + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 1 \\
& 20*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} \\
& + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 122*A*b^{**2}*d^{**2}*m*n^{**3}*x*x*(\\
& 4*n)*(e*x)**m/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m* \\
& *4 + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + \\
& 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m* \\
& n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n \\
& **3 + 85*n^{**2} + 15*n + 1) + 123*A*b^{**2}*d^{**2}*m*n^{**2}*x*x*(4*n)*(e*x)**m/(m^{** \\
& 6 + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} \\
& + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 5 \\
& 10*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} \\
& + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15 \\
& *n + 1) + 44*A*b^{**2}*d^{**2}*m*n*x*x*(4*n)*(e*x)**m/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} \\
& + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150 \\
& *m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{** \\
& 2*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n \\
& + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 5*A*b^{**2}*d^{** \\
& 2}*m*x*x*(4*n)*(e*x)**m/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4} \\
& *n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m \\
& **2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{** \\
& 5 + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n* \\
& *4 + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 30*A*b^{**2}*d^{**2}*n^{**4}*x*x*(4*n)*(e*x)* \\
& *m/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m* \\
& *3*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n \\
& **3 + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675* \\
& m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n*
\end{aligned}$$

$$\begin{aligned}
& *2 + 15*n + 1) + 61*A*b**2*d**2*n**3*x*x**(4*n)*(e*x)**m/(m**6 + 15*m**5*n \\
& + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n* \\
& **2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + \\
& 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + \\
& 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 41*A \\
& *b**2*d**2*n**2*x*x**(4*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n* \\
& **2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20* \\
& m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 \\
& + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n \\
& **5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 11*A*b**2*d**2*n*x*x**(4*n) \\
& *(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 \\
& + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 6 \\
& 75*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n* \\
& **4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n** \\
& 3 + 85*n**2 + 15*n + 1) + A*b**2*d**2*x*x**(4*n)*(e*x)**m/(m**6 + 15*m**5*n \\
& + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n \\
& **2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 \\
& + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 \\
& + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + B*a \\
& **2*c**2*m**5*x*x**n*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 7 \\
& 5*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + \\
& 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120 \\
& *m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + \\
& 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 14*B*a**2*c**2*m**4*n*x*x**n*(e \\
& *x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 22 \\
& 5*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m* \\
& **2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + \\
& 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 8 \\
& 5*n**2 + 15*n + 1) + 5*B*a**2*c**2*m**4*x*x**n*(e*x)**m/(m**6 + 15*m**5*n + \\
& 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n** \\
& 2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + \\
& 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + \\
& 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 71*B \\
& a**2*c**2*m**3*n**2*x*x**n*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n* \\
& **2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20* \\
& m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 \\
& + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n \\
& **5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 56*B*a**2*c**2*m**3*n*x*x \\
& **n*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m** \\
& 4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + \\
& 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n \\
& **4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n* \\
& **3 + 85*n**2 + 15*n + 1) + 10*B*a**2*c**2*m**3*x*x**n*(e*x)**m/(m**6 + 15*m \\
& **5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m \\
& **3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*
\end{aligned}$$

$$\begin{aligned}
& n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m* \\
& n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) \\
& + 154*B*a^{**2}*c^{**2}*m^{**2}*n^{**3}*x*x^{**n}*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85 \\
& *m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3} \\
& *n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + \\
& 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m \\
& + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 213*B*a^{**2}*c^{**2}*m \\
& **2*n^{**2}*x*x^{**n}*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{** \\
& 4*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274* \\
& m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n* \\
& *5 + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n \\
& **4 + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 84*B*a^{**2}*c^{**2}*m^{**2}*n*x*x^{**n}*(e*x)^{** \\
& m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{** \\
& 3*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n* \\
& *3 + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m \\
& *n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{** \\
& 2 + 15*n + 1) + 10*B*a^{**2}*c^{**2}*m^{**2}*x*x^{**n}*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m \\
& **5 + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + \\
& 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150* \\
& m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m \\
& *n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 120*B*a^{** \\
& 2}*c^{**2}*m*n^{**4}*x*x^{**n}*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 7 \\
& 5*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + \\
& 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120 \\
& *m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + \\
& 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 308*B*a^{**2}*c^{**2}*m*n^{**3}*x*x^{**n}*(\\
& e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 2 \\
& 25*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m \\
& **2*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + \\
& 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + \\
& 85*n^{**2} + 15*n + 1) + 213*B*a^{**2}*c^{**2}*m*n^{**2}*x*x^{**n}*(e*x)^{**m}/(m^{**6} + 15*m^{** \\
& 5*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{** \\
& 3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n* \\
& *2 + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n \\
& *2 + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + \\
& 56*B*a^{**2}*c^{**2}*m*n*x*x^{**n}*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{** \\
& 2 + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m \\
& **3 + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} \\
& + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n* \\
& *5 + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 5*B*a^{**2}*c^{**2}*m*x*x^{**n}*(e* \\
& x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225 \\
& *m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{** \\
& 2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 6 \\
& 75*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85 \\
& *n^{**2} + 15*n + 1) + 120*B*a^{**2}*c^{**2}*n^{**4}*x*x^{**n}*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n
\end{aligned}$$

$$\begin{aligned}
& + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 \\
& + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n \\
& + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 \\
& + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 154B^2c^2n^3x^2x^n(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 \\
& + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 \\
& + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 \\
& + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 \\
& + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 71B^2c^2n^2x^2x^n(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 2 \\
& + 25m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 \\
& + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + \\
& + 85n^2 + 15n + 1) + 14B^2c^2n^2x^2x^n(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 \\
& + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 7 \\
& + 5mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + B^2c^2x^2x^n(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n \\
& + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 \\
& + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 2B^2c^2d^2m^5x^2x^n(e^x)^m / (\\
& m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 \\
& + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + \\
& + 15n + 1) + 26B^2c^2d^2m^4n^2x^2x^n(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 \\
& + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75 \\
& + 0m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 10B^2c^2d^2m^4x^2x^n(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + \\
& + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 1 \\
& + 20mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 118B^2c^2d^2m^3n^2x^2x^n \\
& (2n)(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 \\
& + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225 \\
& + n^3 + 85n^2 + 15n + 1) + 104B^2c^2d^2m^3n^2x^2x^n(2n)(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + \\
& + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3
\end{aligned}$$

$$\begin{aligned}
& n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 274m^{**} \\
& *2n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m^{**}n^{**5} \\
& + 548m^{**}n^{**4} + 675m^{**}n^{**3} + 340m^{**}n^{**2} + 75m^{**}n + 6m + 120n^{**5} + 274n^{**} \\
& 4 + 225n^{**3} + 85n^{**2} + 15n + 1) + 120B^{**}a^{**2}c^{**}d^{**}n^{**4}x^{**}x^{**}(2n)^{(e^{**}x)^{**} \\
& m/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**} \\
& 3n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**} \\
& *3 + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m^{**}n^{**5} + 548m^{**}n^{**4} + 675m^{**} \\
& *n^{**3} + 340m^{**}n^{**2} + 75m^{**}n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**} \\
& 2 + 15n + 1) + 214B^{**}a^{**2}c^{**}d^{**}n^{**3}x^{**}x^{**}(2n)^{(e^{**}x)^{**}m/(m^{**6} + 15m^{**5}n + \\
& 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**} \\
& 2 + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + \\
& 150m^{**2}n + 15m^{**2} + 120m^{**}n^{**5} + 548m^{**}n^{**4} + 675m^{**}n^{**3} + 340m^{**}n^{**2} + \\
& 75m^{**}n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 118B^{**} \\
& *a^{**2}c^{**}d^{**}n^{**2}x^{**}x^{**}(2n)^{(e^{**}x)^{**}m/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**} \\
& 2 + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**} \\
& **3 + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} \\
& + 120m^{**}n^{**5} + 548m^{**}n^{**4} + 675m^{**}n^{**3} + 340m^{**}n^{**2} + 75m^{**}n + 6m + 120n^{**} \\
& *5 + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 26B^{**}a^{**2}c^{**}d^{**}n^{**}x^{**}x^{**}(2n) \\
& *(e^{**}x)^{**}m/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + \\
& 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675 \\
& m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m^{**}n^{**5} + 548m^{**}n^{**4} \\
& + 675m^{**}n^{**3} + 340m^{**}n^{**2} + 75m^{**}n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} \\
& + 85n^{**2} + 15n + 1) + 2B^{**}a^{**2}c^{**}d^{**}x^{**}x^{**}(2n)^{(e^{**}x)^{**}m/(m^{**6} + 15m^{**5}n \\
& + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**} \\
& *2 + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + \\
& 150m^{**2}n + 15m^{**2} + 120m^{**}n^{**5} + 548m^{**}n^{**4} + 675m^{**}n^{**3} + 340m^{**}n^{**2} + \\
& 75m^{**}n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + B^{**}a^{**} \\
& *2d^{**2}m^{**5}x^{**}x^{**}(3n)^{(e^{**}x)^{**}m/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} \\
& + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**} \\
& 3 + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + \\
& 120m^{**}n^{**5} + 548m^{**}n^{**4} + 675m^{**}n^{**3} + 340m^{**}n^{**2} + 75m^{**}n + 6m + 120n^{**5} \\
& + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 12B^{**}a^{**2}d^{**2}m^{**4}n^{**}x^{**}x^{**}(\\
& 3n)^{(e^{**}x)^{**}m/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**} \\
& *4 + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + \\
& 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m^{**}n^{**5} + 548m^{**} \\
& n^{**4} + 675m^{**}n^{**3} + 340m^{**}n^{**2} + 75m^{**}n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**} \\
& **3 + 85n^{**2} + 15n + 1) + 5B^{**}a^{**2}d^{**2}m^{**4}x^{**}x^{**}(3n)^{(e^{**}x)^{**}m/(m^{**6} + \\
& 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 3 \\
& 40m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**} \\
& **2n^{**2} + 150m^{**2}n + 15m^{**2} + 120m^{**}n^{**5} + 548m^{**}n^{**4} + 675m^{**}n^{**3} + 34 \\
& 0m^{**}n^{**2} + 75m^{**}n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + \\
& 1) + 49B^{**}a^{**2}d^{**2}m^{**3}n^{**2}x^{**}x^{**}(3n)^{(e^{**}x)^{**}m/(m^{**6} + 15m^{**5}n + 6m^{**} \\
& *5 + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 1 \\
& 50m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**} \\
& **2n + 15m^{**2} + 120m^{**}n^{**5} + 548m^{**}n^{**4} + 675m^{**}n^{**3} + 340m^{**}n^{**2} + 75m^{**}
\end{aligned}$$

$$\begin{aligned}
& 4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 5B^2d^2m^2x^3(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 40B^2d^2n^4x^3(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 78B^2d^2n^3x^3(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 49B^2d^2n^2x^3(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 12B^2d^2n^2x^3(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + B^2d^2x^3(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 2B^2d^2x^3(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 26B^2d^2x^3(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 10B^2d^2x^3(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1)
\end{aligned}$$

$$\begin{aligned}
& + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 118*B*a*b*c^{**2}*m^{**3}*n^{**2}*x*x* \\
& *(2*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15* \\
& m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} \\
& + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548* \\
& m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225 \\
& *n^{**3} + 85*n^{**2} + 15*n + 1) + 104*B*a*b*c^{**2}*m^{**3}*n*x*x*(2*n)*(e*x)^{**m}/(m* \\
& *6 + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{** \\
& 3 + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + \\
& 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} \\
& + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 1 \\
& 5*n + 1) + 20*B*a*b*c^{**2}*m^{**3}*x*x*(2*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{** \\
& 5 + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 15 \\
& 0*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m* \\
& *2*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n \\
& + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 214*B*a*b*c \\
& **2*m^{**2}*n^{**3}*x*x*(2*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} \\
& + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m* \\
& *3 + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + \\
& 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{** \\
& 5 + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 354*B*a*b*c^{**2}*m^{**2}*n^{**2}*x* \\
& x*(2*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 1 \\
& 5*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n* \\
& *4 + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 54 \\
& 8*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 2 \\
& 25*n^{**3} + 85*n^{**2} + 15*n + 1) + 156*B*a*b*c^{**2}*m^{**2}*n*x*x*(2*n)*(e*x)^{**m}/(\\
& m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n \\
& **3 + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} \\
& + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{** \\
& *3 + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + \\
& 15*n + 1) + 20*B*a*b*c^{**2}*m^{**2}*x*x*(2*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m \\
& **5 + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + \\
& 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150* \\
& m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m \\
& *n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 120*B*a*b \\
& *c^{**2}*m*n^{**4}*x*x*(2*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} \\
& + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{** \\
& 3 + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + \\
& 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} \\
& + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 428*B*a*b*c^{**2}*m*n^{**3}*x*x*(\\
& 2*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m* \\
& *4 + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + \\
& 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m \\
& n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n \\
& **3 + 85*n^{**2} + 15*n + 1) + 354*B*a*b*c^{**2}*m*n^{**2}*x*x*(2*n)*(e*x)^{**m}/(m^{**6} \\
& + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3}
\end{aligned}$$

$$\begin{aligned}
& m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} \\
& + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} \\
& + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 588*B*a*b*c*d*m*n^{**2}*x*x \\
& ** (3*n)*(e*x)**m/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15 \\
& *m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} \\
& + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548 \\
& *m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 22 \\
& 5*n^{**3} + 85*n^{**2} + 15*n + 1) + 192*B*a*b*c*d*m*n*x*x** (3*n)*(e*x)**m/(m^{**6} \\
& + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + \\
& 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510 \\
& *m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + \\
& 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n \\
& + 1) + 20*B*a*b*c*d*m*x*x** (3*n)*(e*x)**m/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85* \\
& m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3} \\
& n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + \\
& 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m \\
& + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 160*B*a*b*c*d*n^{**4} \\
& *x*x** (3*n)*(e*x)**m/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n \\
& + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2} \\
& *n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + \\
& 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} \\
& + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 312*B*a*b*c*d*n^{**3}*x*x** (3*n)*(e*x)**m/(\\
& m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n \\
& **3 + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} \\
& + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n \\
& **3 + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + \\
& 15*n + 1) + 196*B*a*b*c*d*n^{**2}*x*x** (3*n)*(e*x)**m/(m^{**6} + 15*m^{**5}*n + 6*m \\
& **5 + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + \\
& 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150* \\
& m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m \\
& *n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 48*B*a*b* \\
& c*d*n*x*x** (3*n)*(e*x)**m/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m \\
& *4*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274 \\
& *m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n \\
& **5 + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274* \\
& n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 4*B*a*b*c*d*x*x** (3*n)*(e*x)**m/(m \\
& *6 + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n \\
& **3 + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + \\
& 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} \\
& + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 1 \\
& 5*n + 1) + 2*B*a*b*d**2*m^{**5}*x*x** (4*n)*(e*x)**m/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} \\
& + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150 \\
& *m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m \\
& **2*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n \\
& + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 22*B*a*b*d**
\end{aligned}$$

$$\begin{aligned}
& 2m^{4n}x^{4n}(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75 \\
& m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + \\
& 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120m \\
& n^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 2 \\
& 74n^4 + 225n^3 + 85n^2 + 15n + 1) + 10B^2a^2b^2d^2m^4x^{4n}(e \\
& x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 22 \\
& 5m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^* \\
& *2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + \\
& 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 8 \\
& 5n^2 + 15n + 1) + 82B^2a^2b^2d^2m^3n^2x^{4n}(e^x)^m / (m^6 + 15 \\
& m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340 \\
& m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^* \\
& *2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340m \\
& n^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1 \\
&) + 88B^2a^2b^2d^2m^3n^2x^{4n}(e^x)^m / (m^6 + 15m^5n + 6m^5 + 8 \\
& 5m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^* \\
& *3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n \\
& + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6* \\
& m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 20B^2a^2b^2d^2m^* \\
& *3x^{4n}(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n^* \\
& n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^* \\
& *2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 \\
& + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^* \\
& *4 + 225n^3 + 85n^2 + 15n + 1) + 122B^2a^2b^2d^2m^2n^3x^{4n}(e \\
& x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 22 \\
& 5m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^* \\
& *2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + \\
& 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 8 \\
& 5n^2 + 15n + 1) + 246B^2a^2b^2d^2m^2n^2x^{4n}(e^x)^m / (m^6 + 1 \\
& 5m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 34 \\
& 0m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^* \\
& *2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340 \\
& mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + \\
& 1) + 132B^2a^2b^2d^2m^2n^2x^{4n}(e^x)^m / (m^6 + 15m^5n + 6m^5 + \\
& 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^* \\
& *3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n^* \\
& n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + \\
& 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 20B^2a^2b^2d^2* \\
& m^2x^{4n}(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n^* \\
& 4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274* \\
& m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^* \\
& *5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^* \\
& **4 + 225n^3 + 85n^2 + 15n + 1) + 60B^2a^2b^2d^2mn^4x^{4n}(e^x \\
&)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225* \\
& m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2
\end{aligned}$$

$$\begin{aligned}
& *n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 67 \\
& 5*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85* \\
& n^{**2} + 15*n + 1) + 244*B*a*b*d^{**2}*m*n^{**3}*x*x^{**}(4*n)*(e*x)^{**}/(m^{**6} + 15*m^{**} \\
& 5*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**} \\
& 3*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n* \\
& *2 + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n* \\
& *2 + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + \\
& 246*B*a*b*d^{**2}*m*n^{**2}*x*x^{**}(4*n)*(e*x)^{**}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m \\
& **4*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n \\
& + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 1 \\
& 5*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + \\
& 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 88*B*a*b*d^{**2}*m*n*x \\
& *x^{**}(4*n)*(e*x)^{**}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + \\
& 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n \\
& **4 + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 5 \\
& 48*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + \\
& 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 10*B*a*b*d^{**2}*m*x*x^{**}(4*n)*(e*x)^{**}/(m^{**6} \\
& + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + \\
& 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510 \\
& *m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + \\
& 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n \\
& + 1) + 60*B*a*b*d^{**2}*n^{**4}*x*x^{**}(4*n)*(e*x)^{**}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + \\
& 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m \\
& **3*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}* \\
& n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + \\
& 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 122*B*a*b*d^{**2} \\
& *n^{**3}*x*x^{**}(4*n)*(e*x)^{**}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m \\
& *4*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274 \\
& *m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n \\
& **5 + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274* \\
& n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 82*B*a*b*d^{**2}*n^{**2}*x*x^{**}(4*n)*(e*x) \\
& **/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m \\
& **3*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}* \\
& n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675 \\
& *m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n \\
& **2 + 15*n + 1) + 22*B*a*b*d^{**2}*n*x*x^{**}(4*n)*(e*x)^{**}/(m^{**6} + 15*m^{**5}*n + 6 \\
& *m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} \\
& + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 15 \\
& 0*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75 \\
& *m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 2*B*a*b \\
& *d^{**2}*x*x^{**}(4*n)*(e*x)^{**}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m \\
& *4*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274 \\
& *m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n \\
& **5 + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274* \\
& n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + B*b^{**2}*c^{**2}*m^{**5}*x*x^{**}(3*n)*(e*x)^{**}
\end{aligned}$$

$$\begin{aligned}
& + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} \\
& + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 40 \\
& *B*b^{**2}*c^{**2}*m*n^{**4}*x*x^{**}(3*n)*(e*x)^{**}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4} \\
& *n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + \\
& 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15* \\
& m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 1 \\
& 20*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 156*B*b^{**2}*c^{**2}*m*n^{**} \\
& 3*x*x^{**}(3*n)*(e*x)^{**}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n \\
& + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**} \\
& 2*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} \\
& + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} \\
& + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 147*B*b^{**2}*c^{**2}*m*n^{**2}*x*x^{**}(3*n)*(e*x) \\
& ^{**}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m \\
& ^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2} \\
& n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675 \\
& *m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n \\
& ^{**2} + 15*n + 1) + 48*B*b^{**2}*c^{**2}*m*n*x*x^{**}(3*n)*(e*x)^{**}/(m^{**6} + 15*m^{**5}*n \\
& + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n* \\
& ^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + \\
& 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + \\
& 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 5*B* \\
& b^{**2}*c^{**2}*m*x*x^{**}(3*n)*(e*x)^{**}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + \\
& 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} \\
& + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 1 \\
& 20*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} \\
& + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 40*B*b^{**2}*c^{**2}*n^{**4}*x*x^{**}(3*n) \\
&)*(e*x)^{**}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} \\
& + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 67 \\
& 5*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**} \\
& 4 + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} \\
& + 85*n^{**2} + 15*n + 1) + 78*B*b^{**2}*c^{**2}*n^{**3}*x*x^{**}(3*n)*(e*x)^{**}/(m^{**6} + 15 \\
& *m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340 \\
& *m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**} \\
& 2*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340* \\
& m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1 \\
&) + 49*B*b^{**2}*c^{**2}*n^{**2}*x*x^{**}(3*n)*(e*x)^{**}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85 \\
& *m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3} \\
& *n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + \\
& 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m \\
& + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 12*B*b^{**2}*c^{**2}*n* \\
& x*x^{**}(3*n)*(e*x)^{**}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + \\
& 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2} \\
& n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + \\
& 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + \\
& 225*n^{**3} + 85*n^{**2} + 15*n + 1) + B*b^{**2}*c^{**2}*x*x^{**}(3*n)*(e*x)^{**}/(m^{**6} + 1
\end{aligned}$$

$$\begin{aligned}
& 5m^{5n} + 6m^5 + 85m^{4n^2} + 75m^{4n} + 15m^4 + 225m^{3n^3} + 340m^{3n^2} + 150m^{3n} + 20m^3 + 274m^{2n^4} + 675m^{2n^3} + 510m^{2n^2} + 150m^{2n} + 15m^2 + 120m^{n^5} + 548m^{n^4} + 675m^{n^3} + 340m^{n^2} + 75m^n + 6m + 120n^{5n} + 274n^{4n} + 225n^{3n} + 85n^{2n} + 15n + 1) + 2B^2cdm^5x^{4n}(ex)^m/(m^6 + 15m^{5n} + 6m^5 + 85m^{4n^2} + 75m^{4n} + 15m^4 + 225m^{3n^3} + 340m^{3n^2} + 150m^{3n} + 20m^3 + 274m^{2n^4} + 675m^{2n^3} + 510m^{2n^2} + 150m^{2n} + 15m^2 + 120m^{n^5} + 548m^{n^4} + 675m^{n^3} + 340m^{n^2} + 75m^n + 6m + 120n^{5n} + 274n^{4n} + 225n^{3n} + 85n^{2n} + 15n + 1) + 22B^2cdm^4n^2x^{4n}(ex)^m/(m^6 + 15m^{5n} + 6m^5 + 85m^{4n^2} + 75m^{4n} + 15m^4 + 225m^{3n^3} + 340m^{3n^2} + 150m^{3n} + 20m^3 + 274m^{2n^4} + 675m^{2n^3} + 510m^{2n^2} + 150m^{2n} + 15m^2 + 120m^{n^5} + 548m^{n^4} + 675m^{n^3} + 340m^{n^2} + 75m^n + 6m + 120n^{5n} + 274n^{4n} + 225n^{3n} + 85n^{2n} + 15n + 1) + 10B^2cdm^4x^{4n}(ex)^m/(m^6 + 15m^{5n} + 6m^5 + 85m^{4n^2} + 75m^{4n} + 15m^4 + 225m^{3n^3} + 340m^{3n^2} + 150m^{3n} + 20m^3 + 274m^{2n^4} + 675m^{2n^3} + 510m^{2n^2} + 150m^{2n} + 15m^2 + 120m^{n^5} + 548m^{n^4} + 675m^{n^3} + 340m^{n^2} + 75m^n + 6m + 120n^{5n} + 274n^{4n} + 225n^{3n} + 85n^{2n} + 15n + 1) + 82B^2cdm^3n^2x^{4n}(ex)^m/(m^6 + 15m^{5n} + 6m^5 + 85m^{4n^2} + 75m^{4n} + 15m^4 + 225m^{3n^3} + 340m^{3n^2} + 150m^{3n} + 20m^3 + 274m^{2n^4} + 675m^{2n^3} + 510m^{2n^2} + 150m^{2n} + 15m^2 + 120m^{n^5} + 548m^{n^4} + 675m^{n^3} + 340m^{n^2} + 75m^n + 6m + 120n^{5n} + 274n^{4n} + 225n^{3n} + 85n^{2n} + 15n + 1) + 88B^2cdm^3n^2x^{4n}(ex)^m/(m^6 + 15m^{5n} + 6m^5 + 85m^{4n^2} + 75m^{4n} + 15m^4 + 225m^{3n^3} + 340m^{3n^2} + 150m^{3n} + 20m^3 + 274m^{2n^4} + 675m^{2n^3} + 510m^{2n^2} + 150m^{2n} + 15m^2 + 120m^{n^5} + 548m^{n^4} + 675m^{n^3} + 340m^{n^2} + 75m^n + 6m + 120n^{5n} + 274n^{4n} + 225n^{3n} + 85n^{2n} + 15n + 1) + 20B^2cdm^3x^{4n}(ex)^m/(m^6 + 15m^{5n} + 6m^5 + 85m^{4n^2} + 75m^{4n} + 15m^4 + 225m^{3n^3} + 340m^{3n^2} + 150m^{3n} + 20m^3 + 274m^{2n^4} + 675m^{2n^3} + 510m^{2n^2} + 150m^{2n} + 15m^2 + 120m^{n^5} + 548m^{n^4} + 675m^{n^3} + 340m^{n^2} + 75m^n + 6m + 120n^{5n} + 274n^{4n} + 225n^{3n} + 85n^{2n} + 15n + 1) + 122B^2cdm^2n^3x^{4n}(ex)^m/(m^6 + 15m^{5n} + 6m^5 + 85m^{4n^2} + 75m^{4n} + 15m^4 + 225m^{3n^3} + 340m^{3n^2} + 150m^{3n} + 20m^3 + 274m^{2n^4} + 675m^{2n^3} + 510m^{2n^2} + 150m^{2n} + 15m^2 + 120m^{n^5} + 548m^{n^4} + 675m^{n^3} + 340m^{n^2} + 75m^n + 6m + 120n^{5n} + 274n^{4n} + 225n^{3n} + 85n^{2n} + 15n + 1) + 246B^2cdm^2n^2x^{4n}(ex)^m/(m^6 + 15m^{5n} + 6m^5 + 85m^{4n^2} + 75m^{4n} + 15m^4 + 225m^{3n^3} + 340m^{3n^2} + 150m^{3n} + 20m^3 + 274m^{2n^4} + 675m^{2n^3} + 510m^{2n^2} + 150m^{2n} + 15m^2 + 120m^{n^5} + 548m^{n^4} + 675m^{n^3} + 340m^{n^2} + 75m^n + 6m + 120n^{5n} + 274n^{4n} + 225n^{3n} + 85n^{2n} + 15n + 1) + 132B^2cdm^2n^2x^{4n}(ex)^m/(m^6 + 15m^{5n} + 6m^5 + 85m^{4n^2} + 75m^{4n} + 15m^4 + 225m^{3n^3} + 340m^{3n^2} + 150m^{3n} + 20m^3 + 274m^{2n^4} + 675m^{2n^3} + 510m^{2n^2} + 150m^{2n} + 15m^2 + 120m^{n^5} + 548m^{n^4} + 675m^{n^3} + 340m^{n^2} + 75m^n + 6m + 120n^{5n} + 274n^{4n} + 225n^{3n} + 85n^{2n} + 15n + 1) + 15
\end{aligned}$$

$$\begin{aligned}
& m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + \\
& 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 20*B*b^{**2}*c*d*m^{**2}*x \\
& *x^{**4*n}*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + \\
& 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n \\
& **4 + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 5 \\
& 48*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + \\
& 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 60*B*b^{**2}*c*d*m*n^{**4}*x*x^{**4*n}*(e*x)^{**m}/(\\
& m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n \\
& **3 + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} \\
& + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{** \\
& *3 + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + \\
& 15*n + 1) + 244*B*b^{**2}*c*d*m*n^{**3}*x*x^{**4*n}*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + \\
& 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} \\
& + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 1 \\
& 50*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 7 \\
& 5*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 246*B* \\
& b^{**2}*c*d*m*n^{**2}*x*x^{**4*n}*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n* \\
& *2 + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20* \\
& m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} \\
& + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n \\
& **5 + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 88*B*b^{**2}*c*d*m*n*x*x^{**4 \\
& *n}*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{** \\
& 4 + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + \\
& 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n \\
& **4 + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n* \\
& **3 + 85*n^{**2} + 15*n + 1) + 10*B*b^{**2}*c*d*m*x*x^{**4*n}*(e*x)^{**m}/(m^{**6} + 15*m \\
& **5*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m \\
& **3*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}* \\
& n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m* \\
& n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) \\
& + 60*B*b^{**2}*c*d*n^{**4}*x*x^{**4*n}*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m* \\
& **4*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n \\
& + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15 \\
& *m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + \\
& 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 122*B*b^{**2}*c*d*n^{**3}* \\
& x*x^{**4*n}*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + \\
& 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}* \\
& n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + \\
& 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + \\
& 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 82*B*b^{**2}*c*d*n^{**2}*x*x^{**4*n}*(e*x)^{**m}/(m \\
& **6 + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n* \\
& **3 + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + \\
& 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{** \\
& 3 + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + \\
& 15*n + 1) + 22*B*b^{**2}*c*d*n*x*x^{**4*n}*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5}
\end{aligned}$$

$$\begin{aligned}
& + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150* \\
& m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2} \\
& *n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + \\
& 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 2*B*b^{**2}*c*d* \\
& x*x^{**}(4*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + \\
& 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}* \\
& n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + \\
& 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + \\
& 225*n^{**3} + 85*n^{**2} + 15*n + 1) + B*b^{**2}*d^{**2}*m^{**5}*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**} \\
& 6 + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} \\
& + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 5 \\
& 10*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} \\
& + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15 \\
& *n + 1) + 10*B*b^{**2}*d^{**2}*m^{**4}*n*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m \\
& **5 + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + \\
& 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150* \\
& m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m \\
& *n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 5*B*b^{**2}* \\
& d^{**2}*m^{**4}*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 7 \\
& 5*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + \\
& 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120 \\
& *m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + \\
& 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 35*B*b^{**2}*d^{**2}*m^{**3}*n^{**2}*x*x^{**}(\\
& 5*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m* \\
& *4 + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + \\
& 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m* \\
& n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n \\
& **3 + 85*n^{**2} + 15*n + 1) + 40*B*b^{**2}*d^{**2}*m^{**3}*n*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**6} \\
& + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} \\
& + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 51 \\
& 0*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + \\
& 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15* \\
& n + 1) + 10*B*b^{**2}*d^{**2}*m^{**3}*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} \\
& + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150 \\
& *m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**} \\
& 2*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n \\
& + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 50*B*b^{**2}*d \\
& *2*m^{**2}*n^{**3}*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} \\
& + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**} \\
& 3 + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + \\
& 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} \\
& + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 105*B*b^{**2}*d^{**2}*m^{**2}*n^{**2}*x* \\
& x^{**}(5*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 1 \\
& 5*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n* \\
& *4 + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 54
\end{aligned}$$

$$\begin{aligned}
& 8*m^n + 675*m^{n-1} + 340*m^{n-2} + 75*m^{n-3} + 6*m^{n-4} + 120*n^5 + 274*n^4 + 225*n^3 + 85*n^2 + 15*n + 1) + 60*B*b^2*d^2*m^2*n*x*x*(5^n)*(e^x)^m/(\\
& m^6 + 15*m^5*n + 6*m^5 + 85*m^4*n^2 + 75*m^4*n + 15*m^4 + 225*m^3*n \\
& ^3 + 340*m^3*n^2 + 150*m^3*n + 20*m^3 + 274*m^2*n^4 + 675*m^2*n^3 \\
& + 510*m^2*n^2 + 150*m^2*n + 15*m^2 + 120*m*n^5 + 548*m*n^4 + 675*m*n \\
& ^3 + 340*m*n^2 + 75*m*n + 6*m + 120*n^5 + 274*n^4 + 225*n^3 + 85*n^2 + \\
& 15*n + 1) + 10*B*b^2*d^2*m^2*x*x*(5^n)*(e^x)^m/(m^6 + 15*m^5*n + 6* \\
& m^5 + 85*m^4*n^2 + 75*m^4*n + 15*m^4 + 225*m^3*n^3 + 340*m^3*n^2 + \\
& 150*m^3*n + 20*m^3 + 274*m^2*n^4 + 675*m^2*n^3 + 510*m^2*n^2 + 150 \\
& *m^2*n + 15*m^2 + 120*m*n^5 + 548*m*n^4 + 675*m*n^3 + 340*m*n^2 + 75* \\
& m*n + 6*m + 120*n^5 + 274*n^4 + 225*n^3 + 85*n^2 + 15*n + 1) + 24*B*b^2 \\
& *d^2*m^n*x*x*(5^n)*(e^x)^m/(m^6 + 15*m^5*n + 6*m^5 + 85*m^4*n^2 \\
& + 75*m^4*n + 15*m^4 + 225*m^3*n^3 + 340*m^3*n^2 + 150*m^3*n + 20*m \\
& ^3 + 274*m^2*n^4 + 675*m^2*n^3 + 510*m^2*n^2 + 150*m^2*n + 15*m^2 + \\
& 120*m*n^5 + 548*m*n^4 + 675*m*n^3 + 340*m*n^2 + 75*m*n + 6*m + 120*n^5 \\
& + 274*n^4 + 225*n^3 + 85*n^2 + 15*n + 1) + 100*B*b^2*d^2*m^n*x*x \\
& *(5^n)*(e^x)^m/(m^6 + 15*m^5*n + 6*m^5 + 85*m^4*n^2 + 75*m^4*n + 15* \\
& m^4 + 225*m^3*n^3 + 340*m^3*n^2 + 150*m^3*n + 20*m^3 + 274*m^2*n^4 \\
& + 675*m^2*n^3 + 510*m^2*n^2 + 150*m^2*n + 15*m^2 + 120*m*n^5 + 548* \\
& m*n^4 + 675*m*n^3 + 340*m*n^2 + 75*m*n + 6*m + 120*n^5 + 274*n^4 + 225 \\
& *n^3 + 85*n^2 + 15*n + 1) + 105*B*b^2*d^2*m^n*x*x*(5^n)*(e^x)^m/(m \\
& ^6 + 15*m^5*n + 6*m^5 + 85*m^4*n^2 + 75*m^4*n + 15*m^4 + 225*m^3*n \\
& ^3 + 340*m^3*n^2 + 150*m^3*n + 20*m^3 + 274*m^2*n^4 + 675*m^2*n^3 + \\
& 510*m^2*n^2 + 150*m^2*n + 15*m^2 + 120*m*n^5 + 548*m*n^4 + 675*m*n \\
& ^3 + 340*m*n^2 + 75*m*n + 6*m + 120*n^5 + 274*n^4 + 225*n^3 + 85*n^2 + \\
& 15*n + 1) + 40*B*b^2*d^2*m^n*x*x*(5^n)*(e^x)^m/(m^6 + 15*m^5*n + 6*m \\
& ^5 + 85*m^4*n^2 + 75*m^4*n + 15*m^4 + 225*m^3*n^3 + 340*m^3*n^2 + 1 \\
& 50*m^3*n + 20*m^3 + 274*m^2*n^4 + 675*m^2*n^3 + 510*m^2*n^2 + 150*m \\
& ^2*n + 15*m^2 + 120*m*n^5 + 548*m*n^4 + 675*m*n^3 + 340*m*n^2 + 75*m \\
& n + 6*m + 120*n^5 + 274*n^4 + 225*n^3 + 85*n^2 + 15*n + 1) + 5*B*b^2*d \\
& ^2*m*x*x*(5^n)*(e^x)^m/(m^6 + 15*m^5*n + 6*m^5 + 85*m^4*n^2 + 75*m \\
& ^4*n + 15*m^4 + 225*m^3*n^3 + 340*m^3*n^2 + 150*m^3*n + 20*m^3 + 274 \\
& *m^2*n^4 + 675*m^2*n^3 + 510*m^2*n^2 + 150*m^2*n + 15*m^2 + 120*m*n \\
& ^5 + 548*m*n^4 + 675*m*n^3 + 340*m*n^2 + 75*m*n + 6*m + 120*n^5 + 274* \\
& n^4 + 225*n^3 + 85*n^2 + 15*n + 1) + 24*B*b^2*d^2*n^4*x*x*(5^n)*(e^x \\
&)^m/(m^6 + 15*m^5*n + 6*m^5 + 85*m^4*n^2 + 75*m^4*n + 15*m^4 + 225* \\
& m^3*n^3 + 340*m^3*n^2 + 150*m^3*n + 20*m^3 + 274*m^2*n^4 + 675*m^2 \\
& *n^3 + 510*m^2*n^2 + 150*m^2*n + 15*m^2 + 120*m*n^5 + 548*m*n^4 + 67 \\
& 5*m*n^3 + 340*m*n^2 + 75*m*n + 6*m + 120*n^5 + 274*n^4 + 225*n^3 + 85* \\
& n^2 + 15*n + 1) + 50*B*b^2*d^2*n^3*x*x*(5^n)*(e^x)^m/(m^6 + 15*m^5*n \\
& + 6*m^5 + 85*m^4*n^2 + 75*m^4*n + 15*m^4 + 225*m^3*n^3 + 340*m^3*n \\
& ^2 + 150*m^3*n + 20*m^3 + 274*m^2*n^4 + 675*m^2*n^3 + 510*m^2*n^2 \\
& + 150*m^2*n + 15*m^2 + 120*m*n^5 + 548*m*n^4 + 675*m*n^3 + 340*m*n^2 \\
& + 75*m*n + 6*m + 120*n^5 + 274*n^4 + 225*n^3 + 85*n^2 + 15*n + 1) + 35 \\
& *B*b^2*d^2*n^2*x*x*(5^n)*(e^x)^m/(m^6 + 15*m^5*n + 6*m^5 + 85*m^4*
\end{aligned}$$

```

n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 2
0*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m*
*2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120
*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 10*B*b**2*d**2*n*x*x**
(5*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m*
*4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 +
675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*
n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n
**3 + 85*n**2 + 15*n + 1) + B*b**2*d**2*x*x**5*(e*x)**m/(m**6 + 15*m**5
*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3
*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**
2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**
2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1), Tr
ue))

```

Maxima [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 540 vs. $2(237) = 474$.

Time = 0.28 (sec) , antiderivative size = 540, normalized size of antiderivative = 2.28

$$\begin{aligned}
& \int (ex)^m (a + bx^n)^2 (A + Bx^n) (c + dx^n)^2 dx \\
&= \frac{Bb^2d^2e^mxe^{(m \log(x)+5n \log(x))}}{m+5n+1} + \frac{2Bb^2cde^mxe^{(m \log(x)+4n \log(x))}}{m+4n+1} \\
&+ \frac{2Babd^2e^mxe^{(m \log(x)+4n \log(x))}}{m+4n+1} + \frac{Ab^2d^2e^mxe^{(m \log(x)+4n \log(x))}}{m+4n+1} \\
&+ \frac{Bb^2c^2e^mxe^{(m \log(x)+3n \log(x))}}{m+3n+1} + \frac{4Babcde^mxe^{(m \log(x)+3n \log(x))}}{m+3n+1} \\
&+ \frac{2Ab^2cde^mxe^{(m \log(x)+3n \log(x))}}{m+3n+1} + \frac{Ba^2d^2e^mxe^{(m \log(x)+3n \log(x))}}{m+3n+1} \\
&+ \frac{2Aabd^2e^mxe^{(m \log(x)+3n \log(x))}}{m+3n+1} + \frac{2Babc^2e^mxe^{(m \log(x)+2n \log(x))}}{m+2n+1} \\
&+ \frac{Ab^2c^2e^mxe^{(m \log(x)+2n \log(x))}}{m+2n+1} + \frac{2Ba^2cde^mxe^{(m \log(x)+2n \log(x))}}{m+2n+1} \\
&+ \frac{4Aabcde^mxe^{(m \log(x)+2n \log(x))}}{m+2n+1} + \frac{Aa^2d^2e^mxe^{(m \log(x)+2n \log(x))}}{m+2n+1} \\
&+ \frac{Ba^2c^2e^mxe^{(m \log(x)+n \log(x))}}{m+n+1} + \frac{2Aabc^2e^mxe^{(m \log(x)+n \log(x))}}{m+n+1} \\
&+ \frac{2Aa^2cde^mxe^{(m \log(x)+n \log(x))}}{m+n+1} + \frac{(ex)^{m+1}Aa^2c^2}{e(m+1)}
\end{aligned}$$

[In] integrate((e*x)^m*(a+b*x^n)^2*(A+B*x^n)*(c+d*x^n)^2,x, algorithm="maxima")

```
[Out] B*b^2*d^2*e^m*x*e^(m*log(x) + 5*n*log(x))/(m + 5*n + 1) + 2*B*b^2*c*d*e^m*x
*e^(m*log(x) + 4*n*log(x))/(m + 4*n + 1) + 2*B*a*b*d^2*e^m*x*e^(m*log(x) +
4*n*log(x))/(m + 4*n + 1) + A*b^2*d^2*e^m*x*e^(m*log(x) + 4*n*log(x))/(m +
4*n + 1) + B*b^2*c^2*e^m*x*e^(m*log(x) + 3*n*log(x))/(m + 3*n + 1) + 4*B*a*
b*c*d*e^m*x*e^(m*log(x) + 3*n*log(x))/(m + 3*n + 1) + 2*A*b^2*c*d*e^m*x*e^(
m*log(x) + 3*n*log(x))/(m + 3*n + 1) + B*a^2*d^2*e^m*x*e^(m*log(x) + 3*n*lo
g(x))/(m + 3*n + 1) + 2*A*a*b*d^2*e^m*x*e^(m*log(x) + 3*n*log(x))/(m + 3*n
+ 1) + 2*B*a*b*c^2*e^m*x*e^(m*log(x) + 2*n*log(x))/(m + 2*n + 1) + A*b^2*c^
2*e^m*x*e^(m*log(x) + 2*n*log(x))/(m + 2*n + 1) + 2*B*a^2*c*d*e^m*x*e^(m*lo
g(x) + 2*n*log(x))/(m + 2*n + 1) + 4*A*a*b*c*d*e^m*x*e^(m*log(x) + 2*n*log(
x))/(m + 2*n + 1) + A*a^2*d^2*e^m*x*e^(m*log(x) + 2*n*log(x))/(m + 2*n + 1)
+ B*a^2*c^2*e^m*x*e^(m*log(x) + n*log(x))/(m + n + 1) + 2*A*a*b*c^2*e^m*x*
e^(m*log(x) + n*log(x))/(m + n + 1) + 2*A*a^2*c*d*e^m*x*e^(m*log(x) + n*log
(x))/(m + n + 1) + (e*x)^(m + 1)*A*a^2*c^2/(e*(m + 1))
```

Giac [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 32523 vs. 2(237) = 474.

Time = 0.51 (sec) , antiderivative size = 32523, normalized size of antiderivative = 137.23

$$\int (ex)^m (a + bx^n)^2 (A + Bx^n) (c + dx^n)^2 dx = \text{Too large to display}$$

```
[In] integrate((e*x)^m*(a+b*x^n)^2*(A+B*x^n)*(c+d*x^n)^2,x, algorithm="giac")
```

```
[Out] (B*b^2*d^2*m^5*x*x^(5*n)*e^(m*log(e) + m*log(x)) + 10*B*b^2*d^2*m^4*n*x*x^(
5*n)*e^(m*log(e) + m*log(x)) + 35*B*b^2*d^2*m^3*n^2*x*x^(5*n)*e^(m*log(e) +
m*log(x)) + 50*B*b^2*d^2*m^2*n^3*x*x^(5*n)*e^(m*log(e) + m*log(x)) + 24*B*
b^2*d^2*m*n^4*x*x^(5*n)*e^(m*log(e) + m*log(x)) + 2*B*b^2*c*d*m^5*x*x^(4*n)
*e^(m*log(e) + m*log(x)) + 2*B*a*b*d^2*m^5*x*x^(4*n)*e^(m*log(e) + m*log(x)
) + A*b^2*d^2*m^5*x*x^(4*n)*e^(m*log(e) + m*log(x)) + B*b^2*d^2*m^5*x*x^(4*
n)*e^(m*log(e) + m*log(x)) + 22*B*b^2*c*d*m^4*n*x*x^(4*n)*e^(m*log(e) + m*1
og(x)) + 22*B*a*b*d^2*m^4*n*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 11*A*b^2*d^
2*m^4*n*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 10*B*b^2*d^2*m^4*n*x*x^(4*n)*e^
(m*log(e) + m*log(x)) + 82*B*b^2*c*d*m^3*n^2*x*x^(4*n)*e^(m*log(e) + m*log(
x)) + 82*B*a*b*d^2*m^3*n^2*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 41*A*b^2*d^2
*m^3*n^2*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 35*B*b^2*d^2*m^3*n^2*x*x^(4*n)
*e^(m*log(e) + m*log(x)) + 122*B*b^2*c*d*m^2*n^3*x*x^(4*n)*e^(m*log(e) + m*
log(x)) + 122*B*a*b*d^2*m^2*n^3*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 61*A*b^
2*d^2*m^2*n^3*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 50*B*b^2*d^2*m^2*n^3*x*x^
(4*n)*e^(m*log(e) + m*log(x)) + 60*B*b^2*c*d*m*n^4*x*x^(4*n)*e^(m*log(e) +
m*log(x)) + 60*B*a*b*d^2*m*n^4*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 30*A*b^2
*d^2*m*n^4*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 24*B*b^2*d^2*m*n^4*x*x^(4*n)
*e^(m*log(e) + m*log(x)) + B*b^2*c^2*m^5*x*x^(3*n)*e^(m*log(e) + m*log(x))
+ 4*B*a*b*c*d*m^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 2*A*b^2*c*d*m^5*x*x^(
```


$$\begin{aligned}
& 2^n) * e^{(m \log(e) + m \log(x))} + 24 * A * b^2 * c * d * m^4 * n * x * x^{(2 * n)} * e^{(m \log(e) + m \\
& * \log(x))} + 22 * B * b^2 * c * d * m^4 * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 13 * A * a^2 * \\
& d^2 * m^4 * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 12 * B * a^2 * d^2 * m^4 * n * x * x^{(2 * n)} * \\
& e^{(m \log(e) + m \log(x))} + 24 * A * a * b * d^2 * m^4 * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 22 * B * a * b * d^2 * m^4 * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 11 * A * b^2 * d^2 * m \\
& ^4 * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 10 * B * b^2 * d^2 * m^4 * n * x * x^{(2 * n)} * e^{(m \\
& \log(e) + m \log(x))} + 118 * B * a * b * c^2 * m^3 * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
&) + 59 * A * b^2 * c^2 * m^3 * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 49 * B * b^2 * c^2 * m \\
& ^3 * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 118 * B * a^2 * c * d * m^3 * n^2 * x * x^{(2 * n)} * \\
& e^{(m \log(e) + m \log(x))} + 236 * A * a * b * c * d * m^3 * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 196 * B * a * b * c * d * m^3 * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 98 * A * b^2 \\
& * c * d * m^3 * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 82 * B * b^2 * c * d * m^3 * n^2 * x * x^{(2 * n)} * \\
& e^{(m \log(e) + m \log(x))} + 59 * A * a^2 * d^2 * m^3 * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 49 * B * a^2 * d^2 * m^3 * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 98 * A * \\
& a * b * d^2 * m^3 * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 82 * B * a * b * d^2 * m^3 * n^2 * x * \\
& x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 41 * A * b^2 * d^2 * m^3 * n^2 * x * x^{(2 * n)} * e^{(m \log(e) \\
&) + m \log(x)} + 35 * B * b^2 * d^2 * m^3 * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 21 \\
& 4 * B * a * b * c^2 * m^2 * n^3 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 107 * A * b^2 * c^2 * m^2 * n \\
& ^3 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 78 * B * b^2 * c^2 * m^2 * n^3 * x * x^{(2 * n)} * e^{(m \\
& \log(e) + m \log(x))} + 214 * B * a^2 * c * d * m^2 * n^3 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
&) + 428 * A * a * b * c * d * m^2 * n^3 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 312 * B * a * b * c * d \\
& * m^2 * n^3 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 156 * A * b^2 * c * d * m^2 * n^3 * x * x^{(2 * n)} \\
&) * e^{(m \log(e) + m \log(x))} + 122 * B * b^2 * c * d * m^2 * n^3 * x * x^{(2 * n)} * e^{(m \log(e) + m \\
& * \log(x))} + 107 * A * a^2 * d^2 * m^2 * n^3 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 78 * B * a \\
& ^2 * d^2 * m^2 * n^3 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 156 * A * a * b * d^2 * m^2 * n^3 * x * \\
& x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 122 * B * a * b * d^2 * m^2 * n^3 * x * x^{(2 * n)} * e^{(m \log(e) \\
&) + m \log(x)} + 61 * A * b^2 * d^2 * m^2 * n^3 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 5 \\
& 0 * B * b^2 * d^2 * m^2 * n^3 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 120 * B * a * b * c^2 * m * n^4 \\
& * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 60 * A * b^2 * c^2 * m * n^4 * x * x^{(2 * n)} * e^{(m \log(e) \\
&) + m \log(x)} + 40 * B * b^2 * c^2 * m * n^4 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 120 \\
& * B * a^2 * c * d * m * n^4 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 240 * A * a * b * c * d * m * n^4 * x * \\
& x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 160 * B * a * b * c * d * m * n^4 * x * x^{(2 * n)} * e^{(m \log(e) \\
& + m \log(x))} + 80 * A * b^2 * c * d * m * n^4 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 60 * B * \\
& b^2 * c * d * m * n^4 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 60 * A * a^2 * d^2 * m * n^4 * x * x^{(2 \\
& * n)} * e^{(m \log(e) + m \log(x))} + 40 * B * a^2 * d^2 * m * n^4 * x * x^{(2 * n)} * e^{(m \log(e) + m \\
& \log(x))} + 80 * A * a * b * d^2 * m * n^4 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 60 * B * a * b * d \\
& ^2 * m * n^4 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 30 * A * b^2 * d^2 * m * n^4 * x * x^{(2 * n)} * e \\
& ^{(m \log(e) + m \log(x))} + 24 * B * b^2 * d^2 * m * n^4 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
&) + B * a^2 * c^2 * m^5 * x * x^n * e^{(m \log(e) + m \log(x))} + 2 * A * a * b * c^2 * m^5 * x * x^n * e^{(m \log(e) \\
& + m \log(x))} + 2 * B * a * b * c^2 * m^5 * x * x^n * e^{(m \log(e) + m \log(x))} + A * b \\
& ^2 * c^2 * m^5 * x * x^n * e^{(m \log(e) + m \log(x))} + B * b^2 * c^2 * m^5 * x * x^n * e^{(m \log(e) \\
& + m \log(x))} + 2 * A * a^2 * c * d * m^5 * x * x^n * e^{(m \log(e) + m \log(x))} + 2 * B * a^2 * c * d * m \\
& ^5 * x * x^n * e^{(m \log(e) + m \log(x))} + 4 * A * a * b * c * d * m^5 * x * x^n * e^{(m \log(e) + m \log(x))} \\
& + 4 * B * a * b * c * d * m^5 * x * x^n * e^{(m \log(e) + m \log(x))} + 2 * A * b^2 * c * d * m^5 * x * x \\
& ^n * e^{(m \log(e) + m \log(x))} + 2 * B * b^2 * c * d * m^5 * x * x^n * e^{(m \log(e) + m \log(x))}
\end{aligned}$$

$$\begin{aligned}
& + A*a^2*d^2*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + B*a^2*d^2*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2*A*a*b*d^2*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2*B*a*b*d^2*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + A*b^2*d^2*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + B*b^2*d^2*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 14*B*a^2*c^2*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 28*A*a*b*c^2*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 26*B*a*b*c^2*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 13*A*b^2*c^2*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 12*B*b^2*c^2*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 28*A*a^2*c*d*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 26*B*a^2*c*d*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 52*A*a*b*c*d*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 48*B*a*b*c*d*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 24*A*b^2*c*d*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 22*B*b^2*c*d*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 13*A*a^2*d^2*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 12*B*a^2*d^2*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 24*A*a*b*d^2*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 22*B*a*b*d^2*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 11*A*b^2*d^2*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10*B*b^2*d^2*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 71*B*a^2*c^2*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 142*A*a*b*c^2*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 118*B*a*b*c^2*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 59*A*b^2*c^2*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + m*\log(x)) + 49*B*b^2*c^2*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 142*A*a^2*c*d*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 118*B*a^2*c*d*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 236*A*a*b*c*d*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 196*B*a*b*c*d*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 98*A*b^2*c*d*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 82*B*b^2*c*d*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 59*A*a^2*d^2*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 49*B*a^2*d^2*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 98*A*a*b*d^2*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 82*B*a*b*d^2*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 41*A*b^2*d^2*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 35*B*b^2*d^2*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 154*B*a^2*c^2*m^2*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 308*A*a*b*c^2*m^2*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 214*B*a*b*c^2*m^2*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 107*A*b^2*c^2*m^2*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 78*B*b^2*c^2*m^2*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 308*A*a^2*c*d*m^2*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 214*B*a^2*c*d*m^2*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 428*A*a*b*c*d*m^2*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + m*\log(x)) + 312*B*a*b*c*d*m^2*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 156*A*b^2*c*d*m^2*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 122*B*b^2*c*d*m^2*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 107*A*a^2*d^2*m^2*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 78*B*a^2*d^2*m^2*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 156*A*a*b*d^2*m^2*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 122*B*a*b*d^2*m^2*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 61*A*b^2*d^2*m^2*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 50*B*b^2*d^2*m^2*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 120*B*a^2*c^2*m*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 240*A*a*b*c^2*m*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 120*B*a*b*c^2*m*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 60*A*b^2*c^2*m*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 40*B*b^2*c^2*m*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 240*A*a^2*c*d*m*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 120*B*a^2*c*d*m*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 240*A*a*b*c*d*m*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + m*1
\end{aligned}$$

$\log(x)) + 160*B*a*b*c*d*m*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 80*A*b^2*c*d*m$
 $*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 60*B*b^2*c*d*m*n^4*x*x^n*e^{(m*\log(e) +$
 $m*\log(x))} + 60*A*a^2*d^2*m*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 40*B*a^2*d^2$
 $*m*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 80*A*a*b*d^2*m*n^4*x*x^n*e^{(m*\log(e)$
 $) + m*\log(x)} + 60*B*a*b*d^2*m*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 30*A*b^2$
 $*d^2*m*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 24*B*b^2*d^2*m*n^4*x*x^n*e^{(m*lo$
 $g(e) + m*\log(x))} + A*a^2*c^2*m^5*x*e^{(m*\log(e) + m*\log(x))} + B*a^2*c^2*m^5*$
 $x*e^{(m*\log(e) + m*\log(x))} + 2*A*a*b*c^2*m^5*x*e^{(m*\log(e) + m*\log(x))} + 2*B$
 $*a*b*c^2*m^5*x*e^{(m*\log(e) + m*\log(x))} + A*b^2*c^2*m^5*x*e^{(m*\log(e) + m*lo$
 $g(x))} + B*b^2*c^2*m^5*x*e^{(m*\log(e) + m*\log(x))} + 2*A*a^2*c*d*m^5*x*e^{(m*lo$
 $g(e) + m*\log(x))} + 2*B*a^2*c*d*m^5*x*e^{(m*\log(e) + m*\log(x))} + 4*A*a*b*c*d*$
 $m^5*x*e^{(m*\log(e) + m*\log(x))} + 4*B*a*b*c*d*m^5*x*e^{(m*\log(e) + m*\log(x))} +$
 $2*A*b^2*c*d*m^5*x*e^{(m*\log(e) + m*\log(x))} + 2*B*b^2*c*d*m^5*x*e^{(m*\log(e)$
 $+ m*\log(x))} + A*a^2*d^2*m^5*x*e^{(m*\log(e) + m*\log(x))} + B*a^2*d^2*m^5*x*e^{($
 $m*\log(e) + m*\log(x))} + 2*A*a*b*d^2*m^5*x*e^{(m*\log(e) + m*\log(x))} + 2*B*a*b*$
 $d^2*m^5*x*e^{(m*\log(e) + m*\log(x))} + A*b^2*d^2*m^5*x*e^{(m*\log(e) + m*\log(x))}$
 $+ B*b^2*d^2*m^5*x*e^{(m*\log(e) + m*\log(x))} + 15*A*a^2*c^2*m^4*n*x*e^{(m*\log($
 $e) + m*\log(x))} + 14*B*a^2*c^2*m^4*n*x*e^{(m*\log(e) + m*\log(x))} + 28*A*a*b*c^2$
 $*m^4*n*x*e^{(m*\log(e) + m*\log(x))} + 26*B*a*b*c^2*m^4*n*x*e^{(m*\log(e) + m*lo$
 $g(x))} + 13*A*b^2*c^2*m^4*n*x*e^{(m*\log(e) + m*\log(x))} + 12*B*b^2*c^2*m^4*n*x$
 $*e^{(m*\log(e) + m*\log(x))} + 28*A*a^2*c*d*m^4*n*x*e^{(m*\log(e) + m*\log(x))} + 2$
 $6*B*a^2*c*d*m^4*n*x*e^{(m*\log(e) + m*\log(x))} + 52*A*a*b*c*d*m^4*n*x*e^{(m*\log$
 $(e) + m*\log(x))} + 48*B*a*b*c*d*m^4*n*x*e^{(m*\log(e) + m*\log(x))} + 24*A*b^2*c$
 $*d*m^4*n*x*e^{(m*\log(e) + m*\log(x))} + 22*B*b^2*c*d*m^4*n*x*e^{(m*\log(e) + m*l$
 $og(x))} + 13*A*a^2*d^2*m^4*n*x*e^{(m*\log(e) + m*\log(x))} + 12*B*a^2*d^2*m^4*n*$
 $x*e^{(m*\log(e) + m*\log(x))} + 24*A*a*b*d^2*m^4*n*x*e^{(m*\log(e) + m*\log(x))} +$
 $22*B*a*b*d^2*m^4*n*x*e^{(m*\log(e) + m*\log(x))} + 11*A*b^2*d^2*m^4*n*x*e^{(m*lo$
 $g(e) + m*\log(x))} + 10*B*b^2*d^2*m^4*n*x*e^{(m*\log(e) + m*\log(x))} + 85*A*a^2*$
 $c^2*m^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 71*B*a^2*c^2*m^3*n^2*x*e^{(m*\log(e)$
 $+ m*\log(x))} + 142*A*a*b*c^2*m^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 118*B*a*b*c$
 $^2*m^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 59*A*b^2*c^2*m^3*n^2*x*e^{(m*\log(e) +$
 $m*\log(x))} + 49*B*b^2*c^2*m^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 142*A*a^2*c*d$
 $*m^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 118*B*a^2*c*d*m^3*n^2*x*e^{(m*\log(e) +$
 $m*\log(x))} + 236*A*a*b*c*d*m^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 196*B*a*b*c*d$
 $*m^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 98*A*b^2*c*d*m^3*n^2*x*e^{(m*\log(e) + m$
 $*\log(x))} + 82*B*b^2*c*d*m^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 59*A*a^2*d^2*m^3$
 $*n^2*x*e^{(m*\log(e) + m*\log(x))} + 49*B*a^2*d^2*m^3*n^2*x*e^{(m*\log(e) + m*lo$
 $g(x))} + 98*A*a*b*d^2*m^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 82*B*a*b*d^2*m^3*n$
 $^2*x*e^{(m*\log(e) + m*\log(x))} + 41*A*b^2*d^2*m^3*n^2*x*e^{(m*\log(e) + m*\log(x$
 $)} + 35*B*b^2*d^2*m^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 225*A*a^2*c^2*m^2*n^3$
 $*x*e^{(m*\log(e) + m*\log(x))} + 154*B*a^2*c^2*m^2*n^3*x*e^{(m*\log(e) + m*\log(x)$
 $)} + 308*A*a*b*c^2*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 214*B*a*b*c^2*m^2*n^3$
 $*x*e^{(m*\log(e) + m*\log(x))} + 107*A*b^2*c^2*m^2*n^3*x*e^{(m*\log(e) + m*\log(x)$
 $)} + 78*B*b^2*c^2*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 308*A*a^2*c*d*m^2*n^3*$
 $x*e^{(m*\log(e) + m*\log(x))} + 214*B*a^2*c*d*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))}$

$$\begin{aligned}
& + 428*A*a*b*c*d*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 312*B*a*b*c*d*m^2*n^3* \\
& x*e^{(m*\log(e) + m*\log(x))} + 156*A*b^2*c*d*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} \\
& + 122*B*b^2*c*d*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 107*A*a^2*d^2*m^2*n^3* \\
& x*e^{(m*\log(e) + m*\log(x))} + 78*B*a^2*d^2*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} \\
& + 156*A*a*b*d^2*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 122*B*a*b*d^2*m^2*n^3*x* \\
& e^{(m*\log(e) + m*\log(x))} + 61*A*b^2*d^2*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + \\
& 50*B*b^2*d^2*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 274*A*a^2*c^2*m*n^4*x*e^{(\\
& m*\log(e) + m*\log(x))} + 120*B*a^2*c^2*m*n^4*x*e^{(m*\log(e) + m*\log(x))} + 240* \\
& A*a*b*c^2*m*n^4*x*e^{(m*\log(e) + m*\log(x))} + 120*B*a*b*c^2*m*n^4*x*e^{(m*\log(\\
& e) + m*\log(x))} + 60*A*b^2*c^2*m*n^4*x*e^{(m*\log(e) + m*\log(x))} + 40*B*b^2*c^ \\
& 2*m*n^4*x*e^{(m*\log(e) + m*\log(x))} + 240*A*a^2*c*d*m*n^4*x*e^{(m*\log(e) + m* \\
& \log(x))} + 120*B*a^2*c*d*m*n^4*x*e^{(m*\log(e) + m*\log(x))} + 240*A*a*b*c*d*m*n^ \\
& 4*x*e^{(m*\log(e) + m*\log(x))} + 160*B*a*b*c*d*m*n^4*x*e^{(m*\log(e) + m*\log(x))} \\
& + 80*A*b^2*c*d*m*n^4*x*e^{(m*\log(e) + m*\log(x))} + 60*B*b^2*c*d*m*n^4*x*e^{(m \\
& *\log(e) + m*\log(x))} + 60*A*a^2*d^2*m*n^4*x*e^{(m*\log(e) + m*\log(x))} + 40*B*a \\
& ^2*d^2*m*n^4*x*e^{(m*\log(e) + m*\log(x))} + 80*A*a*b*d^2*m*n^4*x*e^{(m*\log(e) + \\
& m*\log(x))} + 60*B*a*b*d^2*m*n^4*x*e^{(m*\log(e) + m*\log(x))} + 30*A*b^2*d^2*m* \\
& n^4*x*e^{(m*\log(e) + m*\log(x))} + 24*B*b^2*d^2*m*n^4*x*e^{(m*\log(e) + m*\log(x) \\
&)} + 120*A*a^2*c^2*n^5*x*e^{(m*\log(e) + m*\log(x))} + 5*B*b^2*d^2*m^4*x*x^{(5*n)} \\
& *e^{(m*\log(e) + m*\log(x))} + 40*B*b^2*d^2*m^3*n*x*x^{(5*n)}*e^{(m*\log(e) + m*\log \\
& (x))} + 105*B*b^2*d^2*m^2*n^2*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 100*B*b^2* \\
& d^2*m*n^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 24*B*b^2*d^2*n^4*x*x^{(5*n)}*e^{ \\
& (m*\log(e) + m*\log(x))} + 10*B*b^2*c*d*m^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} \\
& + 10*B*a*b*d^2*m^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 5*A*b^2*d^2*m^4*x*x^{ \\
& (4*n)}*e^{(m*\log(e) + m*\log(x))} + 5*B*b^2*d^2*m^4*x*x^{(4*n)}*e^{(m*\log(e) + m* \\
& \log(x))} + 88*B*b^2*c*d*m^3*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 88*B*a*b*d^ \\
& 2*m^3*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 44*A*b^2*d^2*m^3*n*x*x^{(4*n)}*e^{ \\
& (m*\log(e) + m*\log(x))} + 40*B*b^2*d^2*m^3*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x) \\
&)} + 246*B*b^2*c*d*m^2*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 246*B*a*b*d^2 \\
& *m^2*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 123*A*b^2*d^2*m^2*n^2*x*x^{(4*n)} \\
&)*e^{(m*\log(e) + m*\log(x))} + 105*B*b^2*d^2*m^2*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m \\
& *\log(x))} + 244*B*b^2*c*d*m*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 244*B*a* \\
& b*d^2*m*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 122*A*b^2*d^2*m*n^3*x*x^{(4* \\
& n)}*e^{(m*\log(e) + m*\log(x))} + 100*B*b^2*d^2*m*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m* \\
& \log(x))} + 60*B*b^2*c*d*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 60*B*a*b*d^2 \\
& *n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 30*A*b^2*d^2*n^4*x*x^{(4*n)}*e^{(m* \\
& \log(e) + m*\log(x))} + 24*B*b^2*d^2*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 5*B \\
& *b^2*c^2*m^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 20*B*a*b*c*d*m^4*x*x^{(3*n)} \\
& *e^{(m*\log(e) + m*\log(x))} + 10*A*b^2*c*d*m^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x) \\
&)} + 10*B*b^2*c*d*m^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 5*B*a^2*d^2*m^4*x \\
& *x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 10*A*a*b*d^2*m^4*x*x^{(3*n)}*e^{(m*\log(e) + \\
& m*\log(x))} + 10*B*a*b*d^2*m^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 5*A*b^2*d \\
& ^2*m^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 5*B*b^2*d^2*m^4*x*x^{(3*n)}*e^{(m* \\
& \log(e) + m*\log(x))} + 48*B*b^2*c^2*m^3*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + \\
& 192*B*a*b*c*d*m^3*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 96*A*b^2*c*d*m^3*n*
\end{aligned}$$

$$\begin{aligned}
& x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 88*B*b^2*c*d*m^3*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 48*B*a^2*d^2*m^3*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 96*A \\
& *a*b*d^2*m^3*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 88*B*a*b*d^2*m^3*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 44*A*b^2*d^2*m^3*n*x*x^{(3*n)}*e^{(m*\log(e) + m \\
& *log(x))} + 40*B*b^2*d^2*m^3*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 147*B*b^2 \\
& *c^2*m^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 588*B*a*b*c*d*m^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 294*A*b^2*c*d*m^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) \\
& + m*\log(x))} + 246*B*b^2*c*d*m^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 14 \\
& 7*B*a^2*d^2*m^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 294*A*a*b*d^2*m^2*n \\
& ^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 246*B*a*b*d^2*m^2*n^2*x*x^{(3*n)}*e^{(m \\
& *log(e) + m*log(x))} + 123*A*b^2*d^2*m^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x) \\
&)} + 105*B*b^2*d^2*m^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 156*B*b^2*c^ \\
& 2*m^n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 624*B*a*b*c*d*m^n^3*x*x^{(3*n)}*e \\
& ^{(m*\log(e) + m*\log(x))} + 312*A*b^2*c*d*m^n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(\\
& x))} + 244*B*b^2*c*d*m^n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 156*B*a^2*d^2 \\
& *m^n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 312*A*a*b*d^2*m^n^3*x*x^{(3*n)}*e^{ \\
& (m*\log(e) + m*\log(x))} + 244*B*a*b*d^2*m^n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x) \\
&)} + 122*A*b^2*d^2*m^n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 100*B*b^2*d^2* \\
& m^n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 40*B*b^2*c^2*n^4*x*x^{(3*n)}*e^{(m* \\
& log(e) + m*\log(x))} + 160*B*a*b*c*d*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 8 \\
& 0*A*b^2*c*d*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 60*B*b^2*c*d*n^4*x*x^{(3 \\
& *n)}*e^{(m*\log(e) + m*\log(x))} + 40*B*a^2*d^2*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*lo \\
& g(x))} + 80*A*a*b*d^2*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 60*B*a*b*d^2*n \\
& ^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 30*A*b^2*d^2*n^4*x*x^{(3*n)}*e^{(m*\log(\\
& e) + m*\log(x))} + 24*B*b^2*d^2*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 10*B* \\
& a*b*c^2*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 5*A*b^2*c^2*m^4*x*x^{(2*n)}*e \\
& ^{(m*\log(e) + m*\log(x))} + 5*B*b^2*c^2*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} \\
& + 10*B*a^2*c*d*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 20*A*a*b*c*d*m^4*x*x \\
& ^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 20*B*a*b*c*d*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m \\
& *log(x))} + 10*A*b^2*c*d*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 10*B*b^2*c* \\
& d*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 5*A*a^2*d^2*m^4*x*x^{(2*n)}*e^{(m*lo \\
& g(e) + m*\log(x))} + 5*B*a^2*d^2*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 10*A \\
& *a*b*d^2*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 10*B*a*b*d^2*m^4*x*x^{(2*n)} \\
& *e^{(m*\log(e) + m*\log(x))} + 5*A*b^2*d^2*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x) \\
&)} + 5*B*b^2*d^2*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 104*B*a*b*c^2*m^3*n \\
& *x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 52*A*b^2*c^2*m^3*n*x*x^{(2*n)}*e^{(m*\log(\\
& e) + m*\log(x))} + 48*B*b^2*c^2*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 104 \\
& *B*a^2*c*d*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 208*A*a*b*c*d*m^3*n*x*x \\
& x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 192*B*a*b*c*d*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) \\
& + m*\log(x))} + 96*A*b^2*c*d*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 88*B* \\
& b^2*c*d*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 52*A*a^2*d^2*m^3*n*x*x^{(2 \\
& *n)}*e^{(m*\log(e) + m*\log(x))} + 48*B*a^2*d^2*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m* \\
& log(x))} + 96*A*a*b*d^2*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 88*B*a*b*d \\
& ^2*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 44*A*b^2*d^2*m^3*n*x*x^{(2*n)}*e \\
& ^{(m*\log(e) + m*\log(x))} + 40*B*b^2*d^2*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x)
\end{aligned}$$

$$\begin{aligned}
&)) + 354*B*a*b*c^2*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 177*A*b^2*c^2*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 147*B*b^2*c^2*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 354*B*a^2*c*d*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 708*A*a*b*c*d*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 588*B*a*b*c*d*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 294*A*b^2*c*d*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 246*B*b^2*c*d*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 177*A*a^2*d^2*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 147*B*a^2*d^2*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 294*A*a*b*d^2*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 246*B*a*b*d^2*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 123*A*b^2*d^2*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 105*B*b^2*d^2*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 428*B*a*b*c^2*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 214*A*b^2*c^2*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 156*B*b^2*c^2*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 428*B*a^2*c*d*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 856*A*a*b*c*d*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 624*B*a*b*c*d*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 312*A*b^2*c*d*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 244*B*b^2*c*d*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 214*A*a^2*d^2*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 156*B*a^2*d^2*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 312*A*a*b*d^2*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 244*B*a*b*d^2*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 122*A*b^2*d^2*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 100*B*b^2*d^2*m^n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 120*B*a*b*c^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 60*A*b^2*c^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 40*B*b^2*c^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 120*B*a^2*c*d*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 240*A*a*b*c*d*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 160*B*a*b*c*d*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 80*A*b^2*c*d*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 60*B*b^2*c*d*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 60*A*a^2*d^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 40*B*a^2*d^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 80*A*a*b*d^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 60*B*a*b*d^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 30*A*b^2*d^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 24*B*b^2*d^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 5*B*a^2*c^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10*A*a*b*c^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10*B*a*b*c^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5*A*b^2*c^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5*B*b^2*c^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10*A*a^2*c*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10*B*a^2*c*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 20*A*a*b*c*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 20*B*a*b*c*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10*A*b^2*c*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10*B*b^2*c*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5*A*a^2*d^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5*B*a^2*d^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10*A*a*b*d^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10*B*a*b*d^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5*A*b^2*d^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5*B*b^2*d^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 56*B*a^2*c^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 112*A*a*b*c^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 104*B*a*b*c^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 52*A*b^2*c^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))}
\end{aligned}$$

$$\begin{aligned}
&) + 48*B*b^2*c^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 112*A*a^2*c*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 104*B*a^2*c*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 208*A*a*b*c*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 192*B*a*b*c*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 96*A*b^2*c*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 88*B*b^2*c*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 52*A*a^2*d^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 48*B*a^2*d^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 96*A*a*b*d^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 88*B*a*b*d^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 44*A*b^2*d^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 40*B*b^2*d^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 213*B*a^2*c^2*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 426*A*a*b*c^2*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 354*B*a*b*c^2*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 177*A*b^2*c^2*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 147*B*b^2*c^2*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 426*A*a^2*c*d*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 354*B*a^2*c*d*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 708*A*a*b*c*d*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 588*B*a*b*c*d*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 294*A*b^2*c*d*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 246*B*b^2*c*d*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 177*A*a^2*d^2*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 147*B*a^2*d^2*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 294*A*a*b*d^2*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 246*B*a*b*d^2*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 123*A*b^2*d^2*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 105*B*b^2*d^2*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 308*B*a^2*c^2*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 616*A*a*b*c^2*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 428*B*a*b*c^2*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 214*A*b^2*c^2*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 156*B*b^2*c^2*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 616*A*a^2*c*d*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 428*B*a^2*c*d*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 624*B*a*b*c*d*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 312*A*b^2*c*d*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 244*B*b^2*c*d*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 214*A*a^2*d^2*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 156*B*a^2*d^2*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 312*A*a*b*d^2*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 244*B*a*b*d^2*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 122*A*b^2*d^2*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 100*B*b^2*d^2*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 120*B*a^2*c^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 240*A*a*b*c^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 120*B*a*b*c^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 60*A*b^2*c^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 40*B*b^2*c^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 240*A*a^2*c*d*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 120*B*a^2*c*d*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 240*A*a*b*c*d*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 160*B*a*b*c*d*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 80*A*b^2*c*d*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 60*B*b^2*c*d*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 60*A*a^2*d^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 40*B*a^2*d^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 80*A*a*b*d^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 60*B*a*b*d^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 30*A*b^2*d^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 24*B*b^2*d^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5*A*a^2*c^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 5*B*a^2*c^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))}
\end{aligned}$$

$$\begin{aligned}
& e^{(m \log(e) + m \log(x))} + 10 * A * a * b * c^2 * m^4 * x * e^{(m \log(e) + m \log(x))} + 10 * B \\
& * a * b * c^2 * m^4 * x * e^{(m \log(e) + m \log(x))} + 5 * A * b^2 * c^2 * m^4 * x * e^{(m \log(e) + m \log(x))} + 5 * B * b^2 * c^2 * m^4 * x * e^{(m \log(e) + m \log(x))} \\
& + 10 * A * a^2 * c * d * m^4 * x * e^{(m \log(e) + m \log(x))} + 10 * B * a^2 * c * d * m^4 * x * e^{(m \log(e) + m \log(x))} + 20 * A * a * b * c * d * m^4 * x * e^{(m \log(e) + m \log(x))} \\
& + 20 * B * a * b * c * d * m^4 * x * e^{(m \log(e) + m \log(x))} + 10 * A * b^2 * c * d * m^4 * x * e^{(m \log(e) + m \log(x))} + 10 * B * b^2 * c * d * m^4 * x * e^{(m \log(e) + m \log(x))} \\
& + 5 * A * a^2 * d^2 * m^4 * x * e^{(m \log(e) + m \log(x))} + 5 * B * a^2 * d^2 * m^4 * x * e^{(m \log(e) + m \log(x))} + 10 * A * a * b * d^2 * m^4 * x * e^{(m \log(e) + m \log(x))} \\
& + 10 * B * a * b * d^2 * m^4 * x * e^{(m \log(e) + m \log(x))} + 5 * A * b^2 * d^2 * m^4 * x * e^{(m \log(e) + m \log(x))} + 5 * B * b^2 * d^2 * m^4 * x * e^{(m \log(e) + m \log(x))} \\
& + 60 * A * a^2 * c^2 * m^3 * n * x * e^{(m \log(e) + m \log(x))} + 56 * B * a^2 * c^2 * m^3 * n * x * e^{(m \log(e) + m \log(x))} + 112 * A * a * b * c^2 * m^3 * n * x * e^{(m \log(e) + m \log(x))} \\
& + 104 * B * a * b * c^2 * m^3 * n * x * e^{(m \log(e) + m \log(x))} + 52 * A * b^2 * c^2 * m^3 * n * x * e^{(m \log(e) + m \log(x))} + 48 * B * b^2 * c^2 * m^3 * n * x * e^{(m \log(e) + m \log(x))} \\
& + 112 * A * a^2 * c * d * m^3 * n * x * e^{(m \log(e) + m \log(x))} + 104 * B * a^2 * c * d * m^3 * n * x * e^{(m \log(e) + m \log(x))} + 208 * A * a * b * c * d * m^3 * n * x * e^{(m \log(e) + m \log(x))} \\
& + 192 * B * a * b * c * d * m^3 * n * x * e^{(m \log(e) + m \log(x))} + 96 * A * b^2 * c * d * m^3 * n * x * e^{(m \log(e) + m \log(x))} + 88 * B * b^2 * c * d * m^3 * n * x * e^{(m \log(e) + m \log(x))} \\
& + 52 * A * a^2 * d^2 * m^3 * n * x * e^{(m \log(e) + m \log(x))} + 48 * B * a^2 * d^2 * m^3 * n * x * e^{(m \log(e) + m \log(x))} + 96 * A * a * b * d^2 * m^3 * n * x * e^{(m \log(e) + m \log(x))} \\
& + 88 * B * a * b * d^2 * m^3 * n * x * e^{(m \log(e) + m \log(x))} + 44 * A * b^2 * d^2 * m^3 * n * x * e^{(m \log(e) + m \log(x))} + 40 * B * b^2 * d^2 * m^3 * n * x * e^{(m \log(e) + m \log(x))} \\
& + 255 * A * a^2 * c^2 * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 213 * B * a^2 * c^2 * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 426 * A * a * b * c^2 * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} \\
& + 354 * B * a * b * c^2 * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 177 * A * b^2 * c^2 * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 147 * B * b^2 * c^2 * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} \\
& + 426 * A * a^2 * c * d * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 354 * B * a^2 * c * d * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 708 * A * a * b * c * d * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} \\
& + 588 * B * a * b * c * d * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 294 * A * b^2 * c * d * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 246 * B * b^2 * c * d * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} \\
& + 177 * A * a^2 * d^2 * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 147 * B * a^2 * d^2 * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 294 * A * a * b * d^2 * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} \\
& + 246 * B * a * b * d^2 * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 123 * A * b^2 * d^2 * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} + 105 * B * b^2 * d^2 * m^2 * n^2 * x * e^{(m \log(e) + m \log(x))} \\
& + 450 * A * a^2 * c^2 * m * n^3 * x * e^{(m \log(e) + m \log(x))} + 308 * B * a^2 * c^2 * m * n^3 * x * e^{(m \log(e) + m \log(x))} + 616 * A * a * b * c^2 * m * n^3 * x * e^{(m \log(e) + m \log(x))} \\
& + 428 * B * a * b * c^2 * m * n^3 * x * e^{(m \log(e) + m \log(x))} + 214 * A * b^2 * c^2 * m * n^3 * x * e^{(m \log(e) + m \log(x))} + 156 * B * b^2 * c^2 * m * n^3 * x * e^{(m \log(e) + m \log(x))} \\
& + 616 * A * a^2 * c * d * m * n^3 * x * e^{(m \log(e) + m \log(x))} + 428 * B * a^2 * c * d * m * n^3 * x * e^{(m \log(e) + m \log(x))} + 856 * A * a * b * c * d * m * n^3 * x * e^{(m \log(e) + m \log(x))} \\
& + 624 * B * a * b * c * d * m * n^3 * x * e^{(m \log(e) + m \log(x))} + 312 * A * b^2 * c * d * m * n^3 * x * e^{(m \log(e) + m \log(x))} + 244 * B * b^2 * c * d * m * n^3 * x * e^{(m \log(e) + m \log(x))} \\
& + 214 * A * a^2 * d^2 * m * n^3 * x * e^{(m \log(e) + m \log(x))} + 156 * B * a^2 * d^2 * m * n^3 * x * e^{(m \log(e) + m \log(x))} + 312 * A * a * b * d^2 * m * n^3 * x * e^{(m \log(e) + m \log(x))} \\
& + 244 * B * a * b * d^2 * m * n^3 * x * e^{(m \log(e) + m \log(x))} + 122 * A * b^2 * d^2 * m * n^3 * x * e^{(m \log(e) + m \log(x))} + 100 * B * b^2 * d^2 * m * n^3 * x * e^{(m \log(e) + m \log(x))} \\
& + 274 * A * a^2 * c^2 * n^4 * x
\end{aligned}$$

$e^{(m \log(e) + m \log(x))} + 120*B*a^2*c^2*n^4*x*e^{(m \log(e) + m \log(x))} + 24$
 $0*A*a*b*c^2*n^4*x*e^{(m \log(e) + m \log(x))} + 120*B*a*b*c^2*n^4*x*e^{(m \log(e)$
 $+ m \log(x))} + 60*A*b^2*c^2*n^4*x*e^{(m \log(e) + m \log(x))} + 40*B*b^2*c^2*n^4$
 $x*e^{(m \log(e) + m \log(x))} + 240*A*a^2*c*d*n^4*x*e^{(m \log(e) + m \log(x))} +$
 $120*B*a^2*c*d*n^4*x*e^{(m \log(e) + m \log(x))} + 240*A*a*b*c*d*n^4*x*e^{(m \log$
 $(e) + m \log(x))} + 160*B*a*b*c*d*n^4*x*e^{(m \log(e) + m \log(x))} + 80*A*b^2*c*$
 $d*n^4*x*e^{(m \log(e) + m \log(x))} + 60*B*b^2*c*d*n^4*x*e^{(m \log(e) + m \log(x))}$
 $) + 60*A*a^2*d^2*n^4*x*e^{(m \log(e) + m \log(x))} + 40*B*a^2*d^2*n^4*x*e^{(m \log$
 $(e) + m \log(x))} + 80*A*a*b*d^2*n^4*x*e^{(m \log(e) + m \log(x))} + 60*B*a*b*d^2$
 $n^4*x*e^{(m \log(e) + m \log(x))} + 30*A*b^2*d^2*n^4*x*e^{(m \log(e) + m \log(x))}$
 $) + 24*B*b^2*d^2*n^4*x*e^{(m \log(e) + m \log(x))} + 10*B*b^2*d^2*m^3*x*x^{(5*n)}$
 $*e^{(m \log(e) + m \log(x))} + 60*B*b^2*d^2*m^2*n*x*x^{(5*n)}*e^{(m \log(e) + m \log$
 $(x))} + 105*B*b^2*d^2*m*n^2*x*x^{(5*n)}*e^{(m \log(e) + m \log(x))} + 50*B*b^2*d^2$
 $n^3*x*x^{(5*n)}*e^{(m \log(e) + m \log(x))} + 20*B*b^2*c*d*m^3*x*x^{(4*n)}*e^{(m \log$
 $(e) + m \log(x))} + 20*B*a*b*d^2*m^3*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 10*$
 $A*b^2*d^2*m^3*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 10*B*b^2*d^2*m^3*x*x^{(4*n)}$
 $)e^{(m \log(e) + m \log(x))} + 132*B*b^2*c*d*m^2*n*x*x^{(4*n)}*e^{(m \log(e) + m \log$
 $(x))} + 132*B*a*b*d^2*m^2*n*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 66*A*b^2*d$
 $^2*m^2*n*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 60*B*b^2*d^2*m^2*n*x*x^{(4*n)}*e$
 $^{(m \log(e) + m \log(x))} + 246*B*b^2*c*d*m*n^2*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))}$
 $) + 246*B*a*b*d^2*m*n^2*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 123*A*b^2*d^2$
 $*m*n^2*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 105*B*b^2*d^2*m*n^2*x*x^{(4*n)}*e$
 $^{(m \log(e) + m \log(x))} + 122*B*b^2*c*d*n^3*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))}$
 $+ 122*B*a*b*d^2*n^3*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 61*A*b^2*d^2*n^3*x$
 $*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 50*B*b^2*d^2*n^3*x*x^{(4*n)}*e^{(m \log(e) +$
 $m \log(x))} + 10*B*b^2*c^2*m^3*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 40*B*a*b*$
 $c*d*m^3*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 20*A*b^2*c*d*m^3*x*x^{(3*n)}*e^{(m$
 $\log(e) + m \log(x))} + 20*B*b^2*c*d*m^3*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} +$
 $10*B*a^2*d^2*m^3*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 20*A*a*b*d^2*m^3*x*x^{(3$
 $n)}*e^{(m \log(e) + m \log(x))} + 20*B*a*b*d^2*m^3*x*x^{(3*n)}*e^{(m \log(e) + m \log$
 $(x))} + 10*A*b^2*d^2*m^3*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 10*B*b^2*d^2*$
 $m^3*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 72*B*b^2*c^2*m^2*n*x*x^{(3*n)}*e^{(m \log$
 $(e) + m \log(x))} + 288*B*a*b*c*d*m^2*n*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} +$
 $144*A*b^2*c*d*m^2*n*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 132*B*b^2*c*d*m^2*$
 $n*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 72*B*a^2*d^2*m^2*n*x*x^{(3*n)}*e^{(m \log$
 $(e) + m \log(x))} + 144*A*a*b*d^2*m^2*n*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 1$
 $32*B*a*b*d^2*m^2*n*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 66*A*b^2*d^2*m^2*n*x$
 $*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 60*B*b^2*d^2*m^2*n*x*x^{(3*n)}*e^{(m \log(e)$
 $+ m \log(x))} + 147*B*b^2*c^2*m*n^2*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 588*$
 $B*a*b*c*d*m*n^2*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 294*A*b^2*c*d*m*n^2*x*x$
 $^{(3*n)}*e^{(m \log(e) + m \log(x))} + 246*B*b^2*c*d*m*n^2*x*x^{(3*n)}*e^{(m \log(e)$
 $+ m \log(x))} + 147*B*a^2*d^2*m*n^2*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 294*A$
 $*a*b*d^2*m*n^2*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 246*B*a*b*d^2*m*n^2*x*x$
 $^{(3*n)}*e^{(m \log(e) + m \log(x))} + 123*A*b^2*d^2*m*n^2*x*x^{(3*n)}*e^{(m \log(e) +$
 $m \log(x))} + 105*B*b^2*d^2*m*n^2*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 78*B*b$

$$\begin{aligned}
& ^2c^2n^3xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 312B^*a^*b^*c^*d^*n^3xxx^{(3n)}* \\
& e^{(m\log(e) + m\log(x))} + 156A^*b^2c^*d^*n^3xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 122B^*b^2c^*d^*n^3xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 78B^*a^2d^2n^3 \\
& xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 156A^*a^*b^*d^2n^3xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 122B^*a^*b^*d^2n^3xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 61A^* \\
& b^2d^2n^3xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 50B^*b^2d^2n^3xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 20B^*a^*b^*c^2m^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 10A^*b^2c^2m^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 10B^*b^2c^2m^3x \\
& x^{(2n)}e^{(m\log(e) + m\log(x))} + 20B^*a^2c^*d^*m^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 40A^*a^*b^*c^*d^*m^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 40B^*a^*b^* \\
& c^*d^*m^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 20A^*b^2c^*d^*m^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 20B^*b^2c^*d^*m^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + \\
& 10A^*a^2d^2m^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 10B^*a^2d^2m^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 20A^*a^*b^*d^2m^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 20B^*a^*b^*d^2m^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 10A^*b^2d^2* \\
& m^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 10B^*b^2d^2m^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 156B^*a^*b^*c^2m^2n^*xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 7 \\
& 8A^*b^2c^2m^2n^*xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 72B^*b^2c^2m^2n^*x \\
& x^{(2n)}e^{(m\log(e) + m\log(x))} + 156B^*a^2c^*d^*m^2n^*xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 312A^*a^*b^*c^*d^*m^2n^*xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 288* \\
& B^*a^*b^*c^*d^*m^2n^*xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 144A^*b^2c^*d^*m^2n^*xxx \\
& ^{(2n)}e^{(m\log(e) + m\log(x))} + 132B^*b^2c^*d^*m^2n^*xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 78A^*a^2d^2m^2n^*xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 72B^*a \\
& ^2d^2m^2n^*xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 144A^*a^*b^*d^2m^2n^*xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 132B^*a^*b^*d^2m^2n^*xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 66A^*b^2d^2m^2n^*xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 60B^*b^2* \\
& d^2m^2n^*xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 354B^*a^*b^*c^2m^n^2xxx^{(2n)} \\
& *e^{(m\log(e) + m\log(x))} + 177A^*b^2c^2m^n^2xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 147B^*b^2c^2m^n^2xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 354B^*a^2c^* \\
& *d^*m^n^2xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 708A^*a^*b^*c^*d^*m^n^2xxx^{(2n)}* \\
& e^{(m\log(e) + m\log(x))} + 588B^*a^*b^*c^*d^*m^n^2xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 294A^*b^2c^*d^*m^n^2xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 246B^*b^2c^* \\
& d^*m^n^2xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 177A^*a^2d^2m^n^2xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 147B^*a^2d^2m^n^2xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 294A^*a^*b^*d^2m^n^2xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 246B^*a^*b^*d^2 \\
& *m^n^2xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 123A^*b^2d^2m^n^2xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 105B^*b^2d^2m^n^2xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 214B^*a^*b^*c^2n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 107A^*b^2c^2n^3 \\
& xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 78B^*b^2c^2n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 214B^*a^2c^*d^*n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 428A^* \\
& *a^*b^*c^*d^*n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 312B^*a^*b^*c^*d^*n^3xxx^{(2n)} \\
&)e^{(m\log(e) + m\log(x))} + 156A^*b^2c^*d^*n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 122B^*b^2c^*d^*n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 107A^*a^2d^2* \\
& n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 78B^*a^2d^2n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 156A^*a^*b^*d^2n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 122
\end{aligned}$$

$$\begin{aligned}
& *B*a*b*d^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 61*A*b^2*d^2*n^3*x*x^{(2* \\
& n)}*e^{(m*\log(e) + m*\log(x))} + 50*B*b^2*d^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log \\
& (x))} + 10*B*a^2*c^2*m^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 20*A*a*b*c^2*m^3*x* \\
& x^n*e^{(m*\log(e) + m*\log(x))} + 20*B*a*b*c^2*m^3*x*x^n*e^{(m*\log(e) + m*\log(x) \\
&)} + 10*A*b^2*c^2*m^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10*B*b^2*c^2*m^3*x*x^n \\
& *e^{(m*\log(e) + m*\log(x))} + 20*A*a^2*c*d*m^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + \\
& 20*B*a^2*c*d*m^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 40*A*a*b*c*d*m^3*x*x^n*e^{(\\
& m*\log(e) + m*\log(x))} + 40*B*a*b*c*d*m^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 20 \\
& *A*b^2*c*d*m^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 20*B*b^2*c*d*m^3*x*x^n*e^{(m* \\
& \log(e) + m*\log(x))} + 10*A*a^2*d^2*m^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10*B* \\
& a^2*d^2*m^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 20*A*a*b*d^2*m^3*x*x^n*e^{(m*\log \\
& (e) + m*\log(x))} + 20*B*a*b*d^2*m^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10*A*b^2 \\
& *d^2*m^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10*B*b^2*d^2*m^3*x*x^n*e^{(m*\log(e) \\
& + m*\log(x))} + 84*B*a^2*c^2*m^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 168*A*a*b \\
& *c^2*m^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 156*B*a*b*c^2*m^2*n*x*x^n*e^{(m*\log \\
& (e) + m*\log(x))} + 78*A*b^2*c^2*m^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 72*B \\
& *b^2*c^2*m^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 168*A*a^2*c*d*m^2*n*x*x^n*e^{(\\
& m*\log(e) + m*\log(x))} + 156*B*a^2*c*d*m^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + \\
& 312*A*a*b*c*d*m^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 288*B*a*b*c*d*m^2*n*x* \\
& x^n*e^{(m*\log(e) + m*\log(x))} + 144*A*b^2*c*d*m^2*n*x*x^n*e^{(m*\log(e) + m*\log \\
& (x))} + 132*B*b^2*c*d*m^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 78*A*a^2*d^2*m^2 \\
& *n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 72*B*a^2*d^2*m^2*n*x*x^n*e^{(m*\log(e) + m \\
& *log(x))} + 144*A*a*b*d^2*m^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 132*B*a*b*d^ \\
& 2*m^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 66*A*b^2*d^2*m^2*n*x*x^n*e^{(m*\log(e) \\
&) + m*\log(x))} + 60*B*b^2*d^2*m^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 213*B*a^ \\
& 2*c^2*m^n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 426*A*a*b*c^2*m^n^2*x*x^n*e^{(m* \\
& \log(e) + m*\log(x))} + 354*B*a*b*c^2*m^n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 17 \\
& 7*A*b^2*c^2*m^n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 147*B*b^2*c^2*m^n^2*x*x^n \\
& *e^{(m*\log(e) + m*\log(x))} + 426*A*a^2*c*d*m^n^2*x*x^n*e^{(m*\log(e) + m*\log(x) \\
&)} + 354*B*a^2*c*d*m^n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 708*A*a*b*c*d*m^n^2 \\
& *x*x^n*e^{(m*\log(e) + m*\log(x))} + 588*B*a*b*c*d*m^n^2*x*x^n*e^{(m*\log(e) + m* \\
& \log(x))} + 294*A*b^2*c*d*m^n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 246*B*b^2*c*d \\
& *m^n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 177*A*a^2*d^2*m^n^2*x*x^n*e^{(m*\log(e) \\
&) + m*\log(x))} + 147*B*a^2*d^2*m^n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 294*A*a \\
& *b*d^2*m^n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 246*B*a*b*d^2*m^n^2*x*x^n*e^{(m \\
& *log(e) + m*\log(x))} + 123*A*b^2*d^2*m^n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1 \\
& 05*B*b^2*d^2*m^n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 154*B*a^2*c^2*n^3*x*x^n* \\
& e^{(m*\log(e) + m*\log(x))} + 308*A*a*b*c^2*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + \\
& 214*B*a*b*c^2*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 107*A*b^2*c^2*n^3*x*x^n* \\
& e^{(m*\log(e) + m*\log(x))} + 78*B*b^2*c^2*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + \\
& 308*A*a^2*c*d*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 214*B*a^2*c*d*n^3*x*x^n*e \\
& ^{(m*\log(e) + m*\log(x))} + 428*A*a*b*c*d*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + \\
& 312*B*a*b*c*d*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 156*A*b^2*c*d*n^3*x*x^n*e \\
& ^{(m*\log(e) + m*\log(x))} + 122*B*b^2*c*d*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + \\
& 107*A*a^2*d^2*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 78*B*a^2*d^2*n^3*x*x^n*e^{
\end{aligned}$$

$$\begin{aligned}
& (m \log(e) + m \log(x)) + 156 * A * a * b * d^2 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 1 \\
& 22 * B * a * b * d^2 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 61 * A * b^2 * d^2 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 50 * B * b^2 * d^2 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 10 * \\
& A * a^2 * c^2 * m^3 * x * e^{(m \log(e) + m \log(x))} + 10 * B * a^2 * c^2 * m^3 * x * e^{(m \log(e) + m \log(x))} + 20 * A * a * b * c^2 * m^3 * x * e^{(m \log(e) + m \log(x))} + 20 * B * a * b * c^2 * m^3 * x * \\
& e^{(m \log(e) + m \log(x))} + 10 * A * b^2 * c^2 * m^3 * x * e^{(m \log(e) + m \log(x))} + 10 * B * b^2 * c^2 * m^3 * x * e^{(m \log(e) + m \log(x))} + 20 * A * a^2 * c * d * m^3 * x * e^{(m \log(e) + m \log(x))} + 20 * B * a^2 * c * d * m^3 * x * e^{(m \log(e) + m \log(x))} + 40 * A * a * b * c * d * m^3 * x * \\
& e^{(m \log(e) + m \log(x))} + 40 * B * a * b * c * d * m^3 * x * e^{(m \log(e) + m \log(x))} + 20 * A * b^2 * c * d * m^3 * x * e^{(m \log(e) + m \log(x))} + 20 * B * b^2 * c * d * m^3 * x * e^{(m \log(e) + m \log(x))} + 10 * A * a^2 * d^2 * m^3 * x * e^{(m \log(e) + m \log(x))} + 10 * B * a^2 * d^2 * m^3 * x * \\
& e^{(m \log(e) + m \log(x))} + 20 * A * a * b * d^2 * m^3 * x * e^{(m \log(e) + m \log(x))} + 20 * B * a * b * d^2 * m^3 * x * e^{(m \log(e) + m \log(x))} + 10 * A * b^2 * d^2 * m^3 * x * e^{(m \log(e) + m \log(x))} + 10 * B * b^2 * d^2 * m^3 * x * e^{(m \log(e) + m \log(x))} + 90 * A * a^2 * c^2 * m^2 * n * \\
& x * e^{(m \log(e) + m \log(x))} + 84 * B * a^2 * c^2 * m^2 * n * x * e^{(m \log(e) + m \log(x))} + 168 * A * a * b * c^2 * m^2 * n * x * e^{(m \log(e) + m \log(x))} + 156 * B * a * b * c^2 * m^2 * n * x * e^{(m \log(e) + m \log(x))} + 78 * A * b^2 * c^2 * m^2 * n * x * e^{(m \log(e) + m \log(x))} + 72 * B * b^2 * c^2 * m^2 * n * x * e^{(m \log(e) + m \log(x))} + 168 * A * a^2 * c * d * m^2 * n * x * e^{(m \log(e) + m \log(x))} + 156 * B * a^2 * c * d * m^2 * n * x * e^{(m \log(e) + m \log(x))} + 312 * A * a * b * c * d * m^2 * n * x * e^{(m \log(e) + m \log(x))} + 288 * B * a * b * c * d * m^2 * n * x * e^{(m \log(e) + m \log(x))} + 144 * A * b^2 * c * d * m^2 * n * x * e^{(m \log(e) + m \log(x))} + 132 * B * b^2 * c * d * m^2 * n * x * e^{(m \log(e) + m \log(x))} + 78 * A * a^2 * d^2 * m^2 * n * x * e^{(m \log(e) + m \log(x))} + 72 * B * a^2 * d^2 * m^2 * n * x * e^{(m \log(e) + m \log(x))} + 144 * A * a * b * d^2 * m^2 * n * x * e^{(m \log(e) + m \log(x))} + 132 * B * a * b * d^2 * m^2 * n * x * e^{(m \log(e) + m \log(x))} + 66 * A * b^2 * d^2 * m^2 * n * x * e^{(m \log(e) + m \log(x))} + 60 * B * b^2 * d^2 * m^2 * n * x * e^{(m \log(e) + m \log(x))} + 255 * A * a^2 * c^2 * m * n^2 * x * e^{(m \log(e) + m \log(x))} + 213 * B * a^2 * c^2 * m * n^2 * x * e^{(m \log(e) + m \log(x))} + 426 * A * a * b * c^2 * m * n^2 * x * e^{(m \log(e) + m \log(x))} + 354 * B * a * b * c^2 * m * n^2 * x * e^{(m \log(e) + m \log(x))} + 177 * A * b^2 * c^2 * m * n^2 * x * e^{(m \log(e) + m \log(x))} + 147 * B * b^2 * c^2 * m * n^2 * x * e^{(m \log(e) + m \log(x))} + 426 * A * a^2 * c * d * m * n^2 * x * e^{(m \log(e) + m \log(x))} + 354 * B * a^2 * c * d * m * n^2 * x * e^{(m \log(e) + m \log(x))} + 708 * A * a * b * c * d * m * n^2 * x * e^{(m \log(e) + m \log(x))} + 588 * B * a * b * c * d * m * n^2 * x * e^{(m \log(e) + m \log(x))} + 294 * A * b^2 * c * d * m * n^2 * x * e^{(m \log(e) + m \log(x))} + 246 * B * b^2 * c * d * m * n^2 * x * e^{(m \log(e) + m \log(x))} + 177 * A * a^2 * d^2 * m * n^2 * x * e^{(m \log(e) + m \log(x))} + 147 * B * a^2 * d^2 * m * n^2 * x * e^{(m \log(e) + m \log(x))} + 294 * A * a * b * d^2 * m * n^2 * x * e^{(m \log(e) + m \log(x))} + 246 * B * a * b * d^2 * m * n^2 * x * e^{(m \log(e) + m \log(x))} + 123 * A * b^2 * d^2 * m * n^2 * x * e^{(m \log(e) + m \log(x))} + 105 * B * b^2 * d^2 * m * n^2 * x * e^{(m \log(e) + m \log(x))} + 225 * A * a^2 * c^2 * n^3 * x * e^{(m \log(e) + m \log(x))} + 154 * B * a^2 * c^2 * n^3 * x * e^{(m \log(e) + m \log(x))} + 308 * A * a * b * c^2 * n^3 * x * e^{(m \log(e) + m \log(x))} + 214 * B * a * b * c^2 * n^3 * x * e^{(m \log(e) + m \log(x))} + 107 * A * b^2 * c^2 * n^3 * x * e^{(m \log(e) + m \log(x))} + 78 * B * b^2 * c^2 * n^3 * x * e^{(m \log(e) + m \log(x))} + 308 * A * a^2 * c * d * n^3 * x * e^{(m \log(e) + m \log(x))} + 214 * B * a^2 * c * d * n^3 * x * e^{(m \log(e) + m \log(x))} + 428 * A * a * b * c * d * n^3 * x * e^{(m \log(e) + m \log(x))} + 312 * B * a * b * c * d * n^3 * x * e^{(m \log(e) + m \log(x))} + 156 * A * b^2 * c * d * n^3 * x * e^{(m \log(e) + m \log(x))} + 122 * B * b^2 * c * d * n^3 * x * e^{(m \log(e) + m \log(x))} + 107 * A * a^2 * d^2 * n^3 * x * e^{(m \log(e) + m \log(x))} + 78 * B * a^2 * d^2 * n^3 * x * e^{(m \log(e) + m \log(x))}
\end{aligned}$$

$\log(x)) + 208*A*a*b*c*d*m*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 192*B*a*b*c$
 $*d*m*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 96*A*b^2*c*d*m*n*x*x^{(2*n)}*e^{(m*$
 $\log(e) + m*\log(x))} + 88*B*b^2*c*d*m*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 5$
 $2*A*a^2*d^2*m*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 48*B*a^2*d^2*m*n*x*x^{(2$
 $*n)}*e^{(m*\log(e) + m*\log(x))} + 96*A*a*b*d^2*m*n*x*x^{(2*n)}*e^{(m*\log(e) + m*lo$
 $g(x))} + 88*B*a*b*d^2*m*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 44*A*b^2*d^2*m$
 $*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 40*B*b^2*d^2*m*n*x*x^{(2*n)}*e^{(m*\log($
 $e) + m*\log(x))} + 118*B*a*b*c^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 59*A$
 $*b^2*c^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 49*B*b^2*c^2*n^2*x*x^{(2*n)}$
 $*e^{(m*\log(e) + m*\log(x))} + 118*B*a^2*c*d*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log($
 $x))} + 236*A*a*b*c*d*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 196*B*a*b*c*d*n$
 $^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 98*A*b^2*c*d*n^2*x*x^{(2*n)}*e^{(m*\log($
 $e) + m*\log(x))} + 82*B*b^2*c*d*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 59*A*$
 $a^2*d^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 49*B*a^2*d^2*n^2*x*x^{(2*n)*$
 $e^{(m*\log(e) + m*\log(x))} + 98*A*a*b*d^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x)$
 $)} + 82*B*a*b*d^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 41*A*b^2*d^2*n^2*x$
 $*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 35*B*b^2*d^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) +$
 $m*\log(x))} + 10*B*a^2*c^2*m^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 20*A*a*b*c^2*$
 $m^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 20*B*a*b*c^2*m^2*x*x^n*e^{(m*\log(e) + m*$
 $\log(x))} + 10*A*b^2*c^2*m^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10*B*b^2*c^2*m^2$
 $*x*x^n*e^{(m*\log(e) + m*\log(x))} + 20*A*a^2*c*d*m^2*x*x^n*e^{(m*\log(e) + m*\log$
 $(x))} + 20*B*a^2*c*d*m^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 40*A*a*b*c*d*m^2*x*$
 $x^n*e^{(m*\log(e) + m*\log(x))} + 40*B*a*b*c*d*m^2*x*x^n*e^{(m*\log(e) + m*\log(x)$
 $)} + 20*A*b^2*c*d*m^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 20*B*b^2*c*d*m^2*x*x^n$
 $*e^{(m*\log(e) + m*\log(x))} + 10*A*a^2*d^2*m^2*x*x^n*e^{(m*\log(e) + m*\log(x))} +$
 $10*B*a^2*d^2*m^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 20*A*a*b*d^2*m^2*x*x^n*e^{$
 $(m*\log(e) + m*\log(x))} + 20*B*a*b*d^2*m^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10$
 $*A*b^2*d^2*m^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10*B*b^2*d^2*m^2*x*x^n*e^{(m*$
 $\log(e) + m*\log(x))} + 56*B*a^2*c^2*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 112*A$
 $*a*b*c^2*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 104*B*a*b*c^2*m*n*x*x^n*e^{(m*1$
 $og(e) + m*\log(x))} + 52*A*b^2*c^2*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 48*B*b$
 $^2*c^2*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 112*A*a^2*c*d*m*n*x*x^n*e^{(m*\log$
 $(e) + m*\log(x))} + 104*B*a^2*c*d*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 208*A*a$
 $*b*c*d*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 192*B*a*b*c*d*m*n*x*x^n*e^{(m*\log$
 $(e) + m*\log(x))} + 96*A*b^2*c*d*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 88*B*b^2$
 $*c*d*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 52*A*a^2*d^2*m*n*x*x^n*e^{(m*\log(e)$
 $+ m*\log(x))} + 48*B*a^2*d^2*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 96*A*a*b*d^$
 $2*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 88*B*a*b*d^2*m*n*x*x^n*e^{(m*\log(e) +$
 $m*\log(x))} + 44*A*b^2*d^2*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 40*B*b^2*d^2*m$
 $*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 71*B*a^2*c^2*n^2*x*x^n*e^{(m*\log(e) + m*1$
 $og(x))} + 142*A*a*b*c^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 118*B*a*b*c^2*n^$
 $2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 59*A*b^2*c^2*n^2*x*x^n*e^{(m*\log(e) + m*lo$
 $g(x))} + 49*B*b^2*c^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 142*A*a^2*c*d*n^2*$
 $x*x^n*e^{(m*\log(e) + m*\log(x))} + 118*B*a^2*c*d*n^2*x*x^n*e^{(m*\log(e) + m*\log$
 $(x))} + 236*A*a*b*c*d*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 196*B*a*b*c*d*n^2*$

$$\begin{aligned}
& x^x^n e^{(m \log(e) + m \log(x))} + 98 A^2 b^2 c^2 d^2 n^2 x^x^n e^{(m \log(e) + m \log(x))} + 82 B^2 b^2 c^2 d^2 n^2 x^x^n e^{(m \log(e) + m \log(x))} + 59 A^2 a^2 d^2 n^2 x^x^n e^{(m \log(e) + m \log(x))} \\
& + 49 B^2 a^2 d^2 n^2 x^x^n e^{(m \log(e) + m \log(x))} + 98 A^2 a^2 b^2 d^2 n^2 x^x^n e^{(m \log(e) + m \log(x))} + 82 B^2 a^2 b^2 d^2 n^2 x^x^n e^{(m \log(e) + m \log(x))} \\
& + 41 A^2 b^2 d^2 n^2 x^x^n e^{(m \log(e) + m \log(x))} + 35 B^2 b^2 d^2 n^2 x^x^n e^{(m \log(e) + m \log(x))} + 10 A^2 a^2 c^2 m^2 x^x e^{(m \log(e) + m \log(x))} + 10 B^2 a^2 c^2 m^2 x^x e^{(m \log(e) + m \log(x))} \\
& + 20 A^2 a^2 b^2 c^2 m^2 x^x e^{(m \log(e) + m \log(x))} + 20 B^2 a^2 b^2 c^2 m^2 x^x e^{(m \log(e) + m \log(x))} + 10 A^2 b^2 c^2 m^2 x^x e^{(m \log(e) + m \log(x))} + 10 B^2 b^2 c^2 m^2 x^x e^{(m \log(e) + m \log(x))} \\
& + 20 A^2 a^2 c^2 d^2 m^2 x^x e^{(m \log(e) + m \log(x))} + 20 B^2 a^2 c^2 d^2 m^2 x^x e^{(m \log(e) + m \log(x))} + 40 A^2 a^2 b^2 c^2 d^2 m^2 x^x e^{(m \log(e) + m \log(x))} + 40 B^2 a^2 b^2 c^2 d^2 m^2 x^x e^{(m \log(e) + m \log(x))} \\
& + 20 A^2 b^2 c^2 d^2 m^2 x^x e^{(m \log(e) + m \log(x))} + 20 B^2 b^2 c^2 d^2 m^2 x^x e^{(m \log(e) + m \log(x))} + 10 A^2 a^2 d^2 m^2 x^x e^{(m \log(e) + m \log(x))} + 10 B^2 a^2 d^2 m^2 x^x e^{(m \log(e) + m \log(x))} \\
& + 20 A^2 a^2 b^2 d^2 m^2 x^x e^{(m \log(e) + m \log(x))} + 20 B^2 a^2 b^2 d^2 m^2 x^x e^{(m \log(e) + m \log(x))} + 10 A^2 b^2 d^2 m^2 x^x e^{(m \log(e) + m \log(x))} + 10 B^2 b^2 d^2 m^2 x^x e^{(m \log(e) + m \log(x))} \\
& + 60 A^2 a^2 c^2 m^2 n^2 x^x e^{(m \log(e) + m \log(x))} + 56 B^2 a^2 c^2 m^2 n^2 x^x e^{(m \log(e) + m \log(x))} + 112 A^2 a^2 b^2 c^2 m^2 n^2 x^x e^{(m \log(e) + m \log(x))} + 104 B^2 a^2 b^2 c^2 m^2 n^2 x^x e^{(m \log(e) + m \log(x))} \\
& + 52 A^2 b^2 c^2 m^2 n^2 x^x e^{(m \log(e) + m \log(x))} + 48 B^2 b^2 c^2 m^2 n^2 x^x e^{(m \log(e) + m \log(x))} + 112 A^2 a^2 c^2 d^2 m^2 n^2 x^x e^{(m \log(e) + m \log(x))} + 104 B^2 a^2 c^2 d^2 m^2 n^2 x^x e^{(m \log(e) + m \log(x))} \\
& + 208 A^2 a^2 b^2 c^2 d^2 m^2 n^2 x^x e^{(m \log(e) + m \log(x))} + 192 B^2 a^2 b^2 c^2 d^2 m^2 n^2 x^x e^{(m \log(e) + m \log(x))} + 96 A^2 b^2 c^2 d^2 m^2 n^2 x^x e^{(m \log(e) + m \log(x))} + 88 B^2 b^2 c^2 d^2 m^2 n^2 x^x e^{(m \log(e) + m \log(x))} \\
& + 52 A^2 a^2 d^2 m^2 n^2 x^x e^{(m \log(e) + m \log(x))} + 48 B^2 a^2 d^2 m^2 n^2 x^x e^{(m \log(e) + m \log(x))} + 96 A^2 a^2 b^2 d^2 m^2 n^2 x^x e^{(m \log(e) + m \log(x))} + 88 B^2 a^2 b^2 d^2 m^2 n^2 x^x e^{(m \log(e) + m \log(x))} \\
& + 44 A^2 b^2 d^2 m^2 n^2 x^x e^{(m \log(e) + m \log(x))} + 40 B^2 b^2 d^2 m^2 n^2 x^x e^{(m \log(e) + m \log(x))} + 85 A^2 a^2 c^2 n^2 x^x e^{(m \log(e) + m \log(x))} + 71 B^2 a^2 c^2 n^2 x^x e^{(m \log(e) + m \log(x))} \\
& + 142 A^2 a^2 b^2 c^2 n^2 x^x e^{(m \log(e) + m \log(x))} + 118 B^2 a^2 b^2 c^2 n^2 x^x e^{(m \log(e) + m \log(x))} + 59 A^2 b^2 c^2 n^2 x^x e^{(m \log(e) + m \log(x))} + 49 B^2 b^2 c^2 n^2 x^x e^{(m \log(e) + m \log(x))} \\
& + 142 A^2 a^2 c^2 d^2 n^2 x^x e^{(m \log(e) + m \log(x))} + 118 B^2 a^2 c^2 d^2 n^2 x^x e^{(m \log(e) + m \log(x))} + 236 A^2 a^2 b^2 c^2 d^2 n^2 x^x e^{(m \log(e) + m \log(x))} + 196 B^2 a^2 b^2 c^2 d^2 n^2 x^x e^{(m \log(e) + m \log(x))} \\
& + 98 A^2 b^2 c^2 d^2 n^2 x^x e^{(m \log(e) + m \log(x))} + 82 B^2 b^2 c^2 d^2 n^2 x^x e^{(m \log(e) + m \log(x))} + 59 A^2 a^2 d^2 n^2 x^x e^{(m \log(e) + m \log(x))} + 49 B^2 a^2 d^2 n^2 x^x e^{(m \log(e) + m \log(x))} \\
& + 98 A^2 a^2 b^2 d^2 n^2 x^x e^{(m \log(e) + m \log(x))} + 82 B^2 a^2 b^2 d^2 n^2 x^x e^{(m \log(e) + m \log(x))} + 41 A^2 b^2 d^2 n^2 x^x e^{(m \log(e) + m \log(x))} + 35 B^2 b^2 d^2 n^2 x^x e^{(m \log(e) + m \log(x))} \\
& + 5 B^2 b^2 d^2 m^2 x^x (5^n) e^{(m \log(e) + m \log(x))} + 10 B^2 b^2 c^2 d^2 m^2 x^x (4^n) e^{(m \log(e) + m \log(x))} + 10 B^2 a^2 b^2 d^2 m^2 x^x (4^n) e^{(m \log(e) + m \log(x))} + 5 A^2 b^2 d^2 m^2 x^x (4^n) e^{(m \log(e) + m \log(x))} \\
& + 22 B^2 b^2 c^2 d^2 m^2 x^x (4^n) e^{(m \log(e) + m \log(x))} + 22 B^2 a^2 b^2 d^2 m^2 x^x (4^n) e^{(m \log(e) + m \log(x))} + 11 A^2 b^2 d^2 m^2 x^x (4^n) e^{(m \log(e) + m \log(x))} + 10 B^2 b^2 d^2 m^2 x^x (4^n) e^{(m \log(e) + m \log(x))} + 5
\end{aligned}$$

$$\begin{aligned}
& B*b^2*c^2*m*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 20*B*a*b*c*d*m*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 10*A*b^2*c*d*m*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + \\
& 10*B*b^2*c*d*m*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 5*B*a^2*d^2*m*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 10*A*a*b*d^2*m*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + \\
& 10*B*a*b*d^2*m*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 5*A*b^2*d^2*m*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 5*B*b^2*d^2*m*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + \\
& 12*B*b^2*c^2*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 48*B*a*b*c*d*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 24*A*b^2*c*d*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + \\
& 22*B*b^2*c*d*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 12*B*a^2*d^2*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 24*A*a*b*d^2*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + \\
& 22*B*a*b*d^2*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 11*A*b^2*d^2*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 10*B*b^2*d^2*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + \\
& 10*B*a*b*c^2*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 5*A*b^2*c^2*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 5*B*b^2*c^2*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + \\
& 10*B*a^2*c*d*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 20*A*a*b*c*d*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 20*B*a*b*c*d*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + \\
& 10*A*b^2*c*d*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 10*B*b^2*c*d*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 5*A*a^2*d^2*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + \\
& 5*B*a^2*d^2*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 10*A*a*b*d^2*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 10*B*a*b*d^2*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + \\
& 5*A*b^2*d^2*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 5*B*b^2*d^2*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 26*B*a*b*c^2*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + \\
& 13*A*b^2*c^2*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 12*B*b^2*c^2*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 26*B*a^2*c*d*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + \\
& 52*A*a*b*c*d*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 48*B*a*b*c*d*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 24*A*b^2*c*d*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + \\
& 22*B*b^2*c*d*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 13*A*a^2*d^2*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 12*B*a^2*d^2*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + \\
& 24*A*a*b*d^2*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 22*B*a*b*d^2*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 11*A*b^2*d^2*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + \\
& 10*B*b^2*d^2*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 5*B*a^2*c^2*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10*A*a*b*c^2*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5*A*b^2*c^2*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + \\
& 5*B*b^2*c^2*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10*A*a^2*c*d*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10*B*a^2*c*d*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 20*A*a*b*c*d*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + \\
& 20*B*a*b*c*d*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10*A*b^2*c*d*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10*B*b^2*c*d*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5*A*a^2*d^2*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + \\
& 5*B*a^2*d^2*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10*A*a*b*d^2*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10*B*a*b*d^2*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5*A*b^2*d^2*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + \\
& 5*B*b^2*d^2*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 14*B*a^2*c^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 28*A*a*b*c^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 26*B*a*b*c^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + \\
& 13*A*b^2*c^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 12*B*b^2*c^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 28*A*a^2*c*d*n
\end{aligned}$$

$$\begin{aligned}
& *x^ne^{(m\log(e) + m\log(x))} + 26*B*a^2*c*d*n*x^ne^{(m\log(e) + m\log(x))} + 52*A*a*b*c*d*n*x^ne^{(m\log(e) + m\log(x))} + 48*B*a*b*c*d*n*x^ne^{(m\log(e) + m\log(x))} + 24*A*b^2*c*d*n*x^ne^{(m\log(e) + m\log(x))} + 22*B*b^2*c*d*n*x^ne^{(m\log(e) + m\log(x))} + 13*A*a^2*d^2*n*x^ne^{(m\log(e) + m\log(x))} + 12*B*a^2*d^2*n*x^ne^{(m\log(e) + m\log(x))} + 24*A*a*b*d^2*n*x^ne^{(m\log(e) + m\log(x))} + 22*B*a*b*d^2*n*x^ne^{(m\log(e) + m\log(x))} + 11*A*b^2*d^2*n*x^ne^{(m\log(e) + m\log(x))} + 10*B*b^2*d^2*n*x^ne^{(m\log(e) + m\log(x))} + 5*A*a^2*c^2*m*x^ne^{(m\log(e) + m\log(x))} + 5*B*a^2*c^2*m*x^ne^{(m\log(e) + m\log(x))} + 10*A*a*b*c^2*m*x^ne^{(m\log(e) + m\log(x))} + 10*B*a*b*c^2*m*x^ne^{(m\log(e) + m\log(x))} + 5*A*b^2*c^2*m*x^ne^{(m\log(e) + m\log(x))} + 5*B*b^2*c^2*m*x^ne^{(m\log(e) + m\log(x))} + 10*A*a^2*c*d*m*x^ne^{(m\log(e) + m\log(x))} + 10*B*a^2*c*d*m*x^ne^{(m\log(e) + m\log(x))} + 20*A*a*b*c*d*m*x^ne^{(m\log(e) + m\log(x))} + 20*B*a*b*c*d*m*x^ne^{(m\log(e) + m\log(x))} + 10*A*b^2*c*d*m*x^ne^{(m\log(e) + m\log(x))} + 10*B*b^2*c*d*m*x^ne^{(m\log(e) + m\log(x))} + 5*A*a^2*d^2*m*x^ne^{(m\log(e) + m\log(x))} + 5*B*a^2*d^2*m*x^ne^{(m\log(e) + m\log(x))} + 10*A*a*b*d^2*m*x^ne^{(m\log(e) + m\log(x))} + 10*B*a*b*d^2*m*x^ne^{(m\log(e) + m\log(x))} + 5*A*b^2*d^2*m*x^ne^{(m\log(e) + m\log(x))} + 5*B*b^2*d^2*m*x^ne^{(m\log(e) + m\log(x))} + 15*A*a^2*c^2*n*x^ne^{(m\log(e) + m\log(x))} + 14*B*a^2*c^2*n*x^ne^{(m\log(e) + m\log(x))} + 28*A*a*b*c^2*n*x^ne^{(m\log(e) + m\log(x))} + 26*B*a*b*c^2*n*x^ne^{(m\log(e) + m\log(x))} + 13*A*b^2*c^2*n*x^ne^{(m\log(e) + m\log(x))} + 12*B*b^2*c^2*n*x^ne^{(m\log(e) + m\log(x))} + 28*A*a^2*c*d*n*x^ne^{(m\log(e) + m\log(x))} + 26*B*a^2*c*d*n*x^ne^{(m\log(e) + m\log(x))} + 52*A*a*b*c*d*n*x^ne^{(m\log(e) + m\log(x))} + 48*B*a*b*c*d*n*x^ne^{(m\log(e) + m\log(x))} + 24*A*b^2*c*d*n*x^ne^{(m\log(e) + m\log(x))} + 22*B*b^2*c*d*n*x^ne^{(m\log(e) + m\log(x))} + 13*A*a^2*d^2*n*x^ne^{(m\log(e) + m\log(x))} + 12*B*a^2*d^2*n*x^ne^{(m\log(e) + m\log(x))} + 24*A*a*b*d^2*n*x^ne^{(m\log(e) + m\log(x))} + 22*B*a*b*d^2*n*x^ne^{(m\log(e) + m\log(x))} + 11*A*b^2*d^2*n*x^ne^{(m\log(e) + m\log(x))} + 10*B*b^2*d^2*n*x^ne^{(m\log(e) + m\log(x))} + B*b^2*d^2*x^{(5*n)}*e^{(m\log(e) + m\log(x))} + 2*B*b^2*c*d*x^{(4*n)}*e^{(m\log(e) + m\log(x))} + 2*B*a*b*d^2*x^{(4*n)}*e^{(m\log(e) + m\log(x))} + A*b^2*d^2*x^{(4*n)}*e^{(m\log(e) + m\log(x))} + B*b^2*d^2*x^{(4*n)}*e^{(m\log(e) + m\log(x))} + B*b^2*c^2*x^{(3*n)}*e^{(m\log(e) + m\log(x))} + 4*B*a*b*c*d*x^{(3*n)}*e^{(m\log(e) + m\log(x))} + 2*A*b^2*c*d*x^{(3*n)}*e^{(m\log(e) + m\log(x))} + 2*B*b^2*c*d*x^{(3*n)}*e^{(m\log(e) + m\log(x))} + B*a^2*d^2*x^{(3*n)}*e^{(m\log(e) + m\log(x))} + 2*A*a*b*d^2*x^{(3*n)}*e^{(m\log(e) + m\log(x))} + 2*B*a*b*d^2*x^{(3*n)}*e^{(m\log(e) + m\log(x))} + A*b^2*d^2*x^{(3*n)}*e^{(m\log(e) + m\log(x))} + B*b^2*d^2*x^{(3*n)}*e^{(m\log(e) + m\log(x))} + 2*B*a*b*c^2*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + A*b^2*c^2*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + B*b^2*c^2*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 2*B*a^2*c*d*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 4*A*a*b*c*d*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 4*B*a*b*c*d*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 2*A*b^2*c*d*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 2*B*b^2*c*d*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + A*a^2*d^2*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + B*a^2*d^2*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 2*A*a*b*d^2*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 2*B*a*b*d^2*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + A*b^2*d^2*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + B*b^2*d^2*x^{(2*n)}*e^{(m\log(e) + m\log(x))}
\end{aligned}$$

$$\begin{aligned}
& \cdot (2n) \cdot e^{(m \log(e) + m \log(x))} + B \cdot a^{2c} \cdot 2 \cdot x \cdot x^n \cdot e^{(m \log(e) + m \log(x))} + \\
& 2 \cdot A \cdot a \cdot b \cdot c^2 \cdot x \cdot x^n \cdot e^{(m \log(e) + m \log(x))} + 2 \cdot B \cdot a \cdot b \cdot c^2 \cdot x \cdot x^n \cdot e^{(m \log(e) + m \log(x))} + \\
& A \cdot b^2 \cdot c^2 \cdot x \cdot x^n \cdot e^{(m \log(e) + m \log(x))} + B \cdot b^2 \cdot c^2 \cdot x \cdot x^n \cdot e^{(m \log(e) + m \log(x))} + \\
& 2 \cdot A \cdot a^2 \cdot c \cdot d \cdot x \cdot x^n \cdot e^{(m \log(e) + m \log(x))} + 2 \cdot B \cdot a^2 \cdot c \cdot d \cdot x \cdot x^n \cdot e^{(m \log(e) + m \log(x))} + \\
& 4 \cdot A \cdot a \cdot b \cdot c \cdot d \cdot x \cdot x^n \cdot e^{(m \log(e) + m \log(x))} + 2 \cdot A \cdot b^2 \cdot c \cdot d \cdot x \cdot x^n \cdot e^{(m \log(e) + m \log(x))} + \\
& 2 \cdot B \cdot b^2 \cdot c \cdot d \cdot x \cdot x^n \cdot e^{(m \log(e) + m \log(x))} + A \cdot a^2 \cdot d^2 \cdot x \cdot x^n \cdot e^{(m \log(e) + m \log(x))} + \\
& B \cdot a^2 \cdot d^2 \cdot x \cdot x^n \cdot e^{(m \log(e) + m \log(x))} + 2 \cdot A \cdot a \cdot b \cdot d^2 \cdot x \cdot x^n \cdot e^{(m \log(e) + m \log(x))} + \\
& 2 \cdot B \cdot a \cdot b \cdot d^2 \cdot x \cdot x^n \cdot e^{(m \log(e) + m \log(x))} + A \cdot b^2 \cdot d^2 \cdot x \cdot x^n \cdot e^{(m \log(e) + m \log(x))} + \\
& B \cdot b^2 \cdot d^2 \cdot x \cdot x^n \cdot e^{(m \log(e) + m \log(x))} + A \cdot a^2 \cdot c^2 \cdot x \cdot e^{(m \log(e) + m \log(x))} + B \cdot a^2 \cdot c^2 \cdot x \cdot e^{(m \log(e) + m \log(x))} + \\
& 2 \cdot A \cdot a \cdot b \cdot c^2 \cdot x \cdot e^{(m \log(e) + m \log(x))} + 2 \cdot B \cdot a \cdot b \cdot c^2 \cdot x \cdot e^{(m \log(e) + m \log(x))} + \\
& A \cdot b^2 \cdot c^2 \cdot x \cdot e^{(m \log(e) + m \log(x))} + B \cdot b^2 \cdot c^2 \cdot x \cdot e^{(m \log(e) + m \log(x))} + 2 \cdot A \cdot a^2 \cdot c \cdot d \cdot x \cdot e^{(m \log(e) + m \log(x))} + \\
& 2 \cdot B \cdot a^2 \cdot c \cdot d \cdot x \cdot e^{(m \log(e) + m \log(x))} + 4 \cdot A \cdot a \cdot b \cdot c \cdot d \cdot x \cdot e^{(m \log(e) + m \log(x))} + 4 \cdot B \cdot a \cdot b \cdot c \cdot d \cdot x \cdot e^{(m \log(e) + m \log(x))} + \\
& 2 \cdot A \cdot b^2 \cdot c \cdot d \cdot x \cdot e^{(m \log(e) + m \log(x))} + 2 \cdot B \cdot b^2 \cdot c \cdot d \cdot x \cdot e^{(m \log(e) + m \log(x))} + 2 \cdot \\
& A \cdot a^2 \cdot d^2 \cdot x \cdot e^{(m \log(e) + m \log(x))} + B \cdot a^2 \cdot d^2 \cdot x \cdot e^{(m \log(e) + m \log(x))} + 2 \cdot A \cdot a \cdot b \cdot d^2 \cdot x \cdot e^{(m \log(e) + m \log(x))} + \\
& 2 \cdot B \cdot a \cdot b \cdot d^2 \cdot x \cdot e^{(m \log(e) + m \log(x))} + A \cdot b^2 \cdot d^2 \cdot x \cdot e^{(m \log(e) + m \log(x))} + B \cdot b^2 \cdot d^2 \cdot x \cdot e^{(m \log(e) + m \log(x))} \\
& \Big/ (m^6 + 15m^5n + 85m^4n^2 + 225m^3n^3 + 274m^2n^4 + 120mn^5 + 6m^5 + 75m^4n + 340m^3n^2 + 675m^2n^3 + 548mn^4 + 120n^5 + 15m^4 + 150m^3n + 510m^2n^2 + 675mn^3 + 274n^4 + 20m^3 + 150m^2n + 340mn^2 + 225n^3 + 15m^2 + 75mn + 85n^2 + 6m + 15n + 1)
\end{aligned}$$

Mupad [B] (verification not implemented)

Time = 9.87 (sec) , antiderivative size = 1119, normalized size of antiderivative = 4.72

$$\begin{aligned}
& \int (ex)^m (a + bx^n)^2 (A + Bx^n) (c + dx^n)^2 dx \\
& = \frac{xx^{2n} (ex)^m (2Ba^2cd + Aa^2d^2 + 2Babc^2 + 4Aabcd + Ab^2c^2) (m^4 + 13m^3n + 4m^3 + 59m^2n^2 + 39m^5 + 15m^4n + 5m^4 + 85m^3n^2 + 60m^3n + 10m^3 + 225m^2n^3 + 255m^2n^2 + 90m^2n + 10m^2 + 274m)}{m^5 + 15m^4n + 5m^4 + 85m^3n^2 + 60m^3n + 10m^3 + 225m^2n^3 + 255m^2n^2 + 90m^2n + 10m^2 + 274m} \\
& + \frac{xx^{3n} (ex)^m (Ba^2d^2 + 4Aabcd + 2Aabd^2 + Bb^2c^2 + 2Ab^2cd) (m^4 + 12m^3n + 4m^3 + 49m^2n^2 + 39m^5 + 15m^4n + 5m^4 + 85m^3n^2 + 60m^3n + 10m^3 + 225m^2n^3 + 255m^2n^2 + 90m^2n + 10m^2 + 274m)}{m^5 + 15m^4n + 5m^4 + 85m^3n^2 + 60m^3n + 10m^3 + 225m^2n^3 + 255m^2n^2 + 90m^2n + 10m^2 + 274m} \\
& + \frac{Aa^2c^2x (ex)^m}{m + 1} \\
& + \frac{bdxx^{4n} (ex)^m (Abd + 2Bad + 2Bbc) (m^4 + 11m^3n + 4m^3 + 41m^2n^2 + 33m^2n + 6m^5 + 15m^4n + 5m^4 + 85m^3n^2 + 60m^3n + 10m^3 + 225m^2n^3 + 255m^2n^2 + 90m^2n + 10m^2 + 274m)}{m^5 + 15m^4n + 5m^4 + 85m^3n^2 + 60m^3n + 10m^3 + 225m^2n^3 + 255m^2n^2 + 90m^2n + 10m^2 + 274m} \\
& + \frac{Bb^2d^2xx^{5n} (ex)^m (m^4 + 10m^3n + 4m^3 + 35m^2n^2 + 30m^2n + 6m^2 + 50m^5 + 15m^4n + 5m^4 + 85m^3n^2 + 60m^3n + 10m^3 + 225m^2n^3 + 255m^2n^2 + 90m^2n + 10m^2 + 274m)}{m^5 + 15m^4n + 5m^4 + 85m^3n^2 + 60m^3n + 10m^3 + 225m^2n^3 + 255m^2n^2 + 90m^2n + 10m^2 + 274m} \\
& + \frac{acxx^n (ex)^m (2Aad + 2Abc + Bac) (m^4 + 14m^3n + 4m^3 + 71m^2n^2 + 42m^2n + 6m^2 + 50m^5 + 15m^4n + 5m^4 + 85m^3n^2 + 60m^3n + 10m^3 + 225m^2n^3 + 255m^2n^2 + 90m^2n + 10m^2 + 274m)}{m^5 + 15m^4n + 5m^4 + 85m^3n^2 + 60m^3n + 10m^3 + 225m^2n^3 + 255m^2n^2 + 90m^2n + 10m^2 + 274m}
\end{aligned}$$

[In] int((e*x)^m*(A + B*x^n)*(a + b*x^n)^2*(c + d*x^n)^2,x)

```
[Out] (x*x^(2*n)*(e*x)^m*(A*a^2*d^2 + A*b^2*c^2 + 2*B*a*b*c^2 + 2*B*a^2*c*d + 4*A
*a*b*c*d)*(4*m + 13*n + 39*m*n + 118*m*n^2 + 39*m^2*n + 107*m*n^3 + 13*m^3*
n + 6*m^2 + 4*m^3 + m^4 + 59*n^2 + 107*n^3 + 60*n^4 + 59*m^2*n^2 + 1))/(5*m
+ 15*n + 60*m*n + 255*m*n^2 + 90*m^2*n + 450*m*n^3 + 60*m^3*n + 274*m*n^4
+ 15*m^4*n + 10*m^2 + 10*m^3 + 5*m^4 + m^5 + 85*n^2 + 225*n^3 + 274*n^4 + 1
20*n^5 + 255*m^2*n^2 + 225*m^2*n^3 + 85*m^3*n^2 + 1) + (x*x^(3*n)*(e*x)^m*(
B*a^2*d^2 + B*b^2*c^2 + 2*A*a*b*d^2 + 2*A*b^2*c*d + 4*B*a*b*c*d)*(4*m + 12*
n + 36*m*n + 98*m*n^2 + 36*m^2*n + 78*m*n^3 + 12*m^3*n + 6*m^2 + 4*m^3 + m^
4 + 49*n^2 + 78*n^3 + 40*n^4 + 49*m^2*n^2 + 1))/(5*m + 15*n + 60*m*n + 255*
m*n^2 + 90*m^2*n + 450*m*n^3 + 60*m^3*n + 274*m*n^4 + 15*m^4*n + 10*m^2 + 1
0*m^3 + 5*m^4 + m^5 + 85*n^2 + 225*n^3 + 274*n^4 + 120*n^5 + 255*m^2*n^2 +
225*m^2*n^3 + 85*m^3*n^2 + 1) + (A*a^2*c^2*x*(e*x)^m)/(m + 1) + (b*d*x*x^(4
*n)*(e*x)^m*(A*b*d + 2*B*a*d + 2*B*b*c)*(4*m + 11*n + 33*m*n + 82*m*n^2 + 3
3*m^2*n + 61*m*n^3 + 11*m^3*n + 6*m^2 + 4*m^3 + m^4 + 41*n^2 + 61*n^3 + 30*
n^4 + 41*m^2*n^2 + 1))/(5*m + 15*n + 60*m*n + 255*m*n^2 + 90*m^2*n + 450*m*
n^3 + 60*m^3*n + 274*m*n^4 + 15*m^4*n + 10*m^2 + 10*m^3 + 5*m^4 + m^5 + 85*
n^2 + 225*n^3 + 274*n^4 + 120*n^5 + 255*m^2*n^2 + 225*m^2*n^3 + 85*m^3*n^2
+ 1) + (B*b^2*d^2*x*x^(5*n)*(e*x)^m*(4*m + 10*n + 30*m*n + 70*m*n^2 + 30*m^
2*n + 50*m*n^3 + 10*m^3*n + 6*m^2 + 4*m^3 + m^4 + 35*n^2 + 50*n^3 + 24*n^4
+ 35*m^2*n^2 + 1))/(5*m + 15*n + 60*m*n + 255*m*n^2 + 90*m^2*n + 450*m*n^3
+ 60*m^3*n + 274*m*n^4 + 15*m^4*n + 10*m^2 + 10*m^3 + 5*m^4 + m^5 + 85*n^2
+ 225*n^3 + 274*n^4 + 120*n^5 + 255*m^2*n^2 + 225*m^2*n^3 + 85*m^3*n^2 + 1)
+ (a*c*x*x^n*(e*x)^m*(2*A*a*d + 2*A*b*c + B*a*c)*(4*m + 14*n + 42*m*n + 14
2*m*n^2 + 42*m^2*n + 154*m*n^3 + 14*m^3*n + 6*m^2 + 4*m^3 + m^4 + 71*n^2 +
154*n^3 + 120*n^4 + 71*m^2*n^2 + 1))/(5*m + 15*n + 60*m*n + 255*m*n^2 + 90*
m^2*n + 450*m*n^3 + 60*m^3*n + 274*m*n^4 + 15*m^4*n + 10*m^2 + 10*m^3 + 5*m
^4 + m^5 + 85*n^2 + 225*n^3 + 274*n^4 + 120*n^5 + 255*m^2*n^2 + 225*m^2*n^3
+ 85*m^3*n^2 + 1)
```

3.10 $\int (ex)^m (a + bx^n) (A + Bx^n) (c + dx^n)^2 dx$

Optimal result	380
Rubi [A] (verified)	380
Mathematica [A] (verified)	382
Maple [C] (warning: unable to verify)	382
Fricas [B] (verification not implemented)	384
Sympy [B] (verification not implemented)	385
Maxima [B] (verification not implemented)	399
Giac [B] (verification not implemented)	400
Mupad [B] (verification not implemented)	407

Optimal result

Integrand size = 29, antiderivative size = 160

$$\int (ex)^m (a + bx^n) (A + Bx^n) (c + dx^n)^2 dx = \frac{c(abc + aBc + 2aAd)x^{1+n}(ex)^m}{1 + m + n} + \frac{(ad(2Bc + Ad) + bc(Bc + 2Ad))x^{1+2n}(ex)^m}{1 + m + 2n} + \frac{d(2bBc + Abd + aBd)x^{1+3n}(ex)^m}{1 + m + 3n} + \frac{bBd^2x^{1+4n}(ex)^m}{1 + m + 4n} + \frac{aAc^2(ex)^{1+m}}{e(1 + m)}$$

[Out] $c*(2*A*a*d+A*b*c+B*a*c)*x^{(1+n)}*(e*x)^m/(1+m+n)+(a*d*(A*d+2*B*c)+b*c*(2*A*d+B*c))*x^{(1+2*n)}*(e*x)^m/(1+m+2*n)+d*(A*b*d+B*a*d+2*B*b*c)*x^{(1+3*n)}*(e*x)^m/(1+m+3*n)+b*B*d^2*x^{(1+4*n)}*(e*x)^m/(1+m+4*n)+a*A*c^2*(e*x)^{(1+m)}/e/(1+m)$

Rubi [A] (verified)

Time = 0.11 (sec) , antiderivative size = 160, normalized size of antiderivative = 1.00, number of steps used = 10, number of rules used = 3, $\frac{\text{number of rules}}{\text{integrand size}} = 0.103$, Rules used = {584, 20, 30}

$$\int (ex)^m (a + bx^n) (A + Bx^n) (c + dx^n)^2 dx = \frac{cx^{n+1}(ex)^m(2aAd + aBc + Abc)}{m + n + 1} + \frac{x^{2n+1}(ex)^m(ad(Ad + 2Bc) + bc(2Ad + Bc))}{m + 2n + 1} + \frac{dx^{3n+1}(ex)^m(aBd + Abd + 2bBc)}{m + 3n + 1} + \frac{aAc^2(ex)^{m+1}}{e(m + 1)} + \frac{bBd^2x^{4n+1}(ex)^m}{m + 4n + 1}$$

[In] Int[(e*x)^m*(a + b*x^n)*(A + B*x^n)*(c + d*x^n)^2,x]

[Out] (c*(A*b*c + a*B*c + 2*a*A*d)*x^(1 + n)*(e*x)^m)/(1 + m + n) + ((a*d*(2*B*c + A*d) + b*c*(B*c + 2*A*d))*x^(1 + 2*n)*(e*x)^m)/(1 + m + 2*n) + (d*(2*b*B*c + A*b*d + a*B*d)*x^(1 + 3*n)*(e*x)^m)/(1 + m + 3*n) + (b*B*d^2*x^(1 + 4*n)*(e*x)^m)/(1 + m + 4*n) + (a*A*c^2*(e*x)^(1 + m))/(e*(1 + m))

Rule 20

Int[(u_.)*((a_.)*(v_))^(m_.)*((b_.)*(v_))^(n_.), x_Symbol] := Dist[b^IntPart[n]*((b*v)^FracPart[n]/(a^IntPart[n]*(a*v)^FracPart[n])), Int[u*(a*v)^(m + n), x], x] /; FreeQ[{a, b, m, n}, x] && !IntegerQ[m] && !IntegerQ[n] && !IntegerQ[m + n]

Rule 30

Int[(x_)^(m_.), x_Symbol] := Simp[x^(m + 1)/(m + 1), x] /; FreeQ[m, x] && N eQ[m, -1]

Rule 584

Int[((g_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_.))^(p_.)*((c_) + (d_.)*(x_)^(n_.))^(q_.)*((e_) + (f_.)*(x_)^(n_.))^(r_.), x_Symbol] := Int[ExpandIntegrand[(g*x)^m*(a + b*x^n)^p*(c + d*x^n)^q*(e + f*x^n)^r, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n}, x] && IGtQ[p, -2] && IGtQ[q, 0] && IGtQ[r, 0]

Rubi steps

$$\begin{aligned}
 \text{integral} &= \int (aAc^2(ex)^m + c(abc + aBc + 2aAd)x^n(ex)^m \\
 &\quad + (ad(2Bc + Ad) + bc(Bc + 2Ad))x^{2n}(ex)^m + d(2bBc + Abd + aBd)x^{3n}(ex)^m \\
 &\quad + bBd^2x^{4n}(ex)^m) dx \\
 &= \frac{aAc^2(ex)^{1+m}}{e(1+m)} + (bBd^2) \int x^{4n}(ex)^m dx + (c(abc + aBc + 2aAd)) \int x^n(ex)^m dx \\
 &\quad + (d(2bBc + Abd + aBd)) \int x^{3n}(ex)^m dx + (ad(2Bc + Ad) + bc(Bc + 2Ad)) \int x^{2n}(ex)^m dx \\
 &= \frac{aAc^2(ex)^{1+m}}{e(1+m)} + (bBd^2x^{-m}(ex)^m) \int x^{m+4n} dx \\
 &\quad + (c(abc + aBc + 2aAd)x^{-m}(ex)^m) \int x^{m+n} dx \\
 &\quad + (d(2bBc + Abd + aBd)x^{-m}(ex)^m) \int x^{m+3n} dx \\
 &\quad + ((ad(2Bc + Ad) + bc(Bc + 2Ad))x^{-m}(ex)^m) \int x^{m+2n} dx
 \end{aligned}$$

$$= \frac{c(abc + aBc + 2aAd)x^{1+n}(ex)^m}{1+m+n} + \frac{(ad(2Bc + Ad) + bc(Bc + 2Ad))x^{1+2n}(ex)^m}{1+m+2n} \\ + \frac{d(2bBc + Abd + aBd)x^{1+3n}(ex)^m}{1+m+3n} + \frac{bBd^2x^{1+4n}(ex)^m}{1+m+4n} + \frac{aAc^2(ex)^{1+m}}{e(1+m)}$$

Mathematica [A] (verified)

Time = 0.42 (sec) , antiderivative size = 129, normalized size of antiderivative = 0.81

$$\int (ex)^m (a + bx^n) (A + Bx^n) (c + dx^n)^2 dx = x(ex)^m \left(\frac{aAc^2}{1+m} + \frac{c(abc + aBc + 2aAd)x^n}{1+m+n} \right. \\ \left. + \frac{(ad(2Bc + Ad) + bc(Bc + 2Ad))x^{2n}}{1+m+2n} + \frac{d(2bBc + Abd + aBd)x^{3n}}{1+m+3n} + \frac{bBd^2x^{4n}}{1+m+4n} \right)$$

[In] Integrate[(e*x)^m*(a + b*x^n)*(A + B*x^n)*(c + d*x^n)^2,x]

[Out] x*(e*x)^m*((a*A*c^2)/(1 + m) + (c*(A*b*c + a*B*c + 2*a*A*d)*x^n)/(1 + m + n) + ((a*d*(2*B*c + A*d) + b*c*(B*c + 2*A*d))*x^(2*n))/(1 + m + 2*n) + (d*(2*b*B*c + A*b*d + a*B*d)*x^(3*n))/(1 + m + 3*n) + (b*B*d^2*x^(4*n))/(1 + m + 4*n))

Maple [C] (warning: unable to verify)

Result contains higher order function than in optimal. Order 9 vs. order 3.

Time = 2.41 (sec) , antiderivative size = 2377, normalized size of antiderivative = 14.86

method	result	size
risch	Expression too large to display	2377
parallelrisc	Expression too large to display	3344

[In] int((e*x)^m*(a+b*x^n)*(A+B*x^n)*(c+d*x^n)^2,x,method=_RETURNVERBOSE)

[Out] x*(54*A*a*c*d*m*n*x^n+B*a*d^2*(x^n)^3+18*B*b*d^2*m*n*(x^n)^4+16*B*b*c*d*m*n^3*(x^n)^3+28*B*b*c*d*n^2*(x^n)^3+8*A*a*c*d*m^3*x^n+2*B*b*c*d*m^4*(x^n)^3+7*B*a*d^2*m^3*n*(x^n)^3+8*B*b*c*d*m^3*(x^n)^3+14*B*a*d^2*m^2*n^2*(x^n)^3+52*A*a*c*d*n^2*x^n+27*B*a*c^2*m^2*n*x^n+52*A*b*c^2*m*n^2*x^n+28*B*a*d^2*m*n^2*(x^n)^3+24*A*a*d^2*m*n*(x^n)^2+27*A*b*c^2*m^2*n*x^n+2*A*b*c*d*m^4*(x^n)^2+14*B*b*c*d*m^3*n*(x^n)^3+38*B*a*c*d*m^2*n^2*(x^n)^2+8*B*a*c*d*(x^n)^2*m+27*B*a*c^2*m*n*x^n+8*A*b*c*d*(x^n)^2*m+16*A*b*c*d*(x^n)^2*n+B*b*c^2*(x^n)^2+54*A*a*c*d*m^2*n*x^n+A*a*c^2+24*B*a*c*d*m*n^3*(x^n)^2+b*B*d^2*(x^n)^4+24*A*b*c*d*m*n^3*(x^n)^2+18*A*a*c*d*m^3*n*x^n+4*A*a*c^2*m+10*A*a*c^2*n+42*B*b*c*d*m^2*n*(x^n)^3+52*B*a*c^2*m*n^2*x^n+52*A*a*c*d*m^2*n^2*x^n+19*B*b*c^2*m^2*n^2

$$\begin{aligned}
&*(x^n)^2+6*B*b*d^2*m^3*n*(x^n)^4+11*B*b*d^2*m^2*n^2*(x^n)^4+A*b*d^2*(x^n)^3 \\
&+24*B*b*c^2*m^2*n*(x^n)^2+38*B*b*c^2*m*n^2*(x^n)^2+A*a*d^2*(x^n)^2+8*B*b*c^2 \\
&2*m^3*n*(x^n)^2+A*b*c^2*x^n+12*B*b*c^2*n^3*(x^n)^2+16*B*a*c*d*(x^n)^2*n+27* \\
&A*b*c^2*m*n*x^n+22*B*b*d^2*m*n^2*(x^n)^4+6*B*b*d^2*m*n^3*(x^n)^4+16*A*b*c*d \\
&*m^3*n*(x^n)^2+56*B*b*c*d*m*n^2*(x^n)^3+x^n*c^2*B*a+12*A*b*c*d*m^2*(x^n)^2+ \\
&24*A*b*c^2*m*n^3*x^n+8*A*b*c*d*m^3*(x^n)^2+A*a*c^2*m^4+76*B*a*c*d*m*n^2*(x \\
&n)^2+42*B*b*c*d*m*n*(x^n)^3+48*A*a*c*d*m*n^3*x^n+48*A*b*c*d*m^2*n*(x^n)^2+8 \\
&*B*a*c*d*m^3*(x^n)^2+24*B*a*c*d*n^3*(x^n)^2+21*B*a*d^2*m*n*(x^n)^3+4*A*a*c^2 \\
&2*m^3+50*A*a*c^2*n^3+6*A*a*c^2*m^2+35*A*a*c^2*n^2+24*A*a*c^2*n^4+7*B*a*d^2* \\
&(x^n)^3*n+6*B*b*c^2*m^2*(x^n)^2+19*B*b*c^2*n^2*(x^n)^2+6*A*b*d^2*m^2*(x^n)^ \\
&3+14*A*b*d^2*n^2*(x^n)^3+B*a*c^2*m^4*x^n+2*A*a*c*d*m^4*x^n+38*B*a*c*d*n^2*(\\
&x^n)^2+24*B*b*c^2*m*n*(x^n)^2+76*A*b*c*d*m*n^2*(x^n)^2+38*A*b*c*d*n^2*(x^n) \\
&^2+30*A*a*c^2*m*n+4*B*a*d^2*(x^n)^3+m+24*A*a*d^2*m^2*n*(x^n)^2+28*B*b*c*d*m \\
&^2*n^2*(x^n)^3+48*B*a*c*d*m*n*(x^n)^2+104*A*a*c*d*m*n^2*x^n+38*A*b*c*d*m^2* \\
&n^2*(x^n)^2+48*A*b*c*d*m*n*(x^n)^2+48*B*a*c*d*m^2*n*(x^n)^2+16*B*a*c*d*m^3* \\
&n*(x^n)^2+2*x^n*A*a*c*d+B*b*d^2*m^4*(x^n)^4+A*b*d^2*m^4*(x^n)^3+19*A*a*d^2* \\
&m^2*n^2*(x^n)^2+9*A*b*c^2*x^n*n+16*B*b*c*d*n^3*(x^n)^3+12*B*b*c^2*m*n^3*(x \\
&n)^2+4*m*b*B*d^2*(x^n)^4+7*A*b*d^2*m^3*n*(x^n)^3+9*A*b*c^2*m^3*n*x^n+9*B*a* \\
&c^2*m^3*n*x^n+26*B*a*c^2*m^2*n^2*x^n+24*B*a*c^2*m*n^3*x^n+18*B*b*d^2*m^2*n* \\
&(x^n)^4+24*A*b*c*d*n^3*(x^n)^2+21*A*b*d^2*m*n*(x^n)^3+48*A*a*c*d*n^3*x^n+8* \\
&B*a*d^2*m*n^3*(x^n)^3+12*B*b*c*d*m^2*(x^n)^3+12*A*a*d^2*m*n^3*(x^n)^2+38*A* \\
&a*d^2*m*n^2*(x^n)^2+2*B*a*c*d*m^4*(x^n)^2+2*(x^n)^2*A*b*c*d+2*(x^n)^2*B*a*c \\
&*d+4*B*b*c^2*m^3*(x^n)^2+10*A*a*c^2*m^3*n+35*A*a*c^2*m^2*n^2+50*A*a*c^2*m*n \\
&^3+8*A*b*d^2*n^3*(x^n)^3+4*B*a*d^2*m^3*(x^n)^3+8*B*a*d^2*n^3*(x^n)^3+4*A*a* \\
&d^2*(x^n)^2*m+4*B*b*d^2*m^3*(x^n)^4+6*B*b*d^2*n^3*(x^n)^4+A*a*d^2*m^4*(x^n) \\
&^2+30*A*a*c^2*m^2*n+70*A*a*c^2*m*n^2+21*A*b*d^2*m^2*n*(x^n)^3+28*A*b*d^2*m* \\
&n^2*(x^n)^3+26*A*b*c^2*m^2*n^2*x^n+6*b*B*d^2*(x^n)^4*n+6*A*a*d^2*m^2*(x^n)^ \\
&2+19*A*a*d^2*n^2*(x^n)^2+4*A*b*c^2*m^3*x^n+24*A*b*c^2*n^3*x^n+12*A*a*c*d*m^ \\
&2*x^n+8*A*a*c*d*x^n*m+18*A*a*c*d*x^n*n+8*A*a*d^2*m^3*n*(x^n)^2+21*B*a*d^2*m \\
&^2*n*(x^n)^3+14*B*b*c*d*(x^n)^3*n+2*(x^n)^3*B*b*c*d+8*A*b*d^2*m*n^3*(x^n)^3 \\
&+4*B*a*c^2*x^n*m+14*A*b*d^2*m^2*n^2*(x^n)^3+6*B*b*d^2*m^2*(x^n)^4+11*B*b*d^ \\
&2*n^2*(x^n)^4+4*A*a*d^2*m^3*(x^n)^2+12*B*a*c*d*m^2*(x^n)^2+14*B*a*d^2*n^2*(\\
&x^n)^3+9*B*a*c^2*x^n*n+4*A*b*c^2*x^n*m+B*a*d^2*m^4*(x^n)^3+26*B*a*c^2*n^2*x \\
&n+4*B*b*c^2*(x^n)^2*m+8*B*b*c^2*(x^n)^2*n+8*B*b*c*d*(x^n)^3*m+6*B*a*d^2*m^ \\
&2*(x^n)^3+B*b*c^2*m^4*(x^n)^2+8*A*a*d^2*(x^n)^2*n+6*A*b*c^2*m^2*x^n+26*A*b* \\
&c^2*n^2*x^n+6*B*a*c^2*m^2*x^n+4*A*b*d^2*(x^n)^3*m+7*A*b*d^2*(x^n)^3*n+4*B*a \\
&*c^2*m^3*x^n+24*B*a*c^2*n^3*x^n+4*A*b*d^2*m^3*(x^n)^3+12*A*a*d^2*n^3*(x^n)^ \\
&2+A*b*c^2*m^4*x^n)/(1+m)/(1+m+n)/(1+m+2*n)/(1+m+3*n)/(1+m+4*n)*x^m*e^m*exp(\\
&1/2*I*csgn(I*e*x)*Pi*m*(csgn(I*e*x)-csgn(I*x))*(-csgn(I*e*x)+csgn(I*e)))
\end{aligned}$$

Fricas [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 1426 vs. $2(160) = 320$.

Time = 0.34 (sec) , antiderivative size = 1426, normalized size of antiderivative = 8.91

$$\int (ex)^m (a + bx^n) (A + Bx^n) (c + dx^n)^2 dx = \text{Too large to display}$$

[In] integrate((e*x)^m*(a+b*x^n)*(A+B*x^n)*(c+d*x^n)^2,x, algorithm="fricas")

[Out] ((B*b*d^2*m^4 + 4*B*b*d^2*m^3 + 6*B*b*d^2*m^2 + 4*B*b*d^2*m + B*b*d^2 + 6*(B*b*d^2*m + B*b*d^2)*n^3 + 11*(B*b*d^2*m^2 + 2*B*b*d^2*m + B*b*d^2)*n^2 + 6*(B*b*d^2*m^3 + 3*B*b*d^2*m^2 + 3*B*b*d^2*m + B*b*d^2)*n)*x*x^(4*n)*e^(m*log(e) + m*log(x)) + ((2*B*b*c*d + (B*a + A*b)*d^2)*m^4 + 2*B*b*c*d + 4*(2*B*b*c*d + (B*a + A*b)*d^2)*m^3 + 8*(2*B*b*c*d + (B*a + A*b)*d^2 + (2*B*b*c*d + (B*a + A*b)*d^2)*m)*n^3 + (B*a + A*b)*d^2 + 6*(2*B*b*c*d + (B*a + A*b)*d^2)*m^2 + 14*(2*B*b*c*d + (B*a + A*b)*d^2 + (2*B*b*c*d + (B*a + A*b)*d^2)*m^2 + 2*(2*B*b*c*d + (B*a + A*b)*d^2)*m)*n^2 + 4*(2*B*b*c*d + (B*a + A*b)*d^2)*m + 7*(2*B*b*c*d + (2*B*b*c*d + (B*a + A*b)*d^2)*m^3 + (B*a + A*b)*d^2 + 3*(2*B*b*c*d + (B*a + A*b)*d^2)*m^2 + 3*(2*B*b*c*d + (B*a + A*b)*d^2)*m)*n)*x*x^(3*n)*e^(m*log(e) + m*log(x)) + ((B*b*c^2 + A*a*d^2 + 2*(B*a + A*b)*c*d)*m^4 + B*b*c^2 + A*a*d^2 + 4*(B*b*c^2 + A*a*d^2 + 2*(B*a + A*b)*c*d)*m^3 + 12*(B*b*c^2 + A*a*d^2 + 2*(B*a + A*b)*c*d + (B*b*c^2 + A*a*d^2 + 2*(B*a + A*b)*c*d)*m)*n^3 + 2*(B*a + A*b)*c*d + 6*(B*b*c^2 + A*a*d^2 + 2*(B*a + A*b)*c*d)*m^2 + 19*(B*b*c^2 + A*a*d^2 + 2*(B*a + A*b)*c*d + (B*b*c^2 + A*a*d^2 + 2*(B*a + A*b)*c*d)*m)*n^2 + 4*(B*b*c^2 + A*a*d^2 + 2*(B*a + A*b)*c*d)*m + 8*(B*b*c^2 + A*a*d^2 + (B*b*c^2 + A*a*d^2 + 2*(B*a + A*b)*c*d)*m^3 + 2*(B*a + A*b)*c*d + 3*(B*b*c^2 + A*a*d^2 + 2*(B*a + A*b)*c*d)*m^2 + 3*(B*b*c^2 + A*a*d^2 + 2*(B*a + A*b)*c*d)*m)*n)*x*x^(2*n)*e^(m*log(e) + m*log(x)) + ((2*A*a*c*d + (B*a + A*b)*c^2)*m^4 + 2*A*a*c*d + 4*(2*A*a*c*d + (B*a + A*b)*c^2)*m^3 + 24*(2*A*a*c*d + (B*a + A*b)*c^2 + (2*A*a*c*d + (B*a + A*b)*c^2)*m)*n^3 + (B*a + A*b)*c^2 + 6*(2*A*a*c*d + (B*a + A*b)*c^2)*m^2 + 26*(2*A*a*c*d + (B*a + A*b)*c^2 + (2*A*a*c*d + (B*a + A*b)*c^2)*m)*n^2 + 4*(2*A*a*c*d + (B*a + A*b)*c^2)*m + 9*(2*A*a*c*d + (2*A*a*c*d + (B*a + A*b)*c^2)*m^3 + (B*a + A*b)*c^2 + 3*(2*A*a*c*d + (B*a + A*b)*c^2)*m^2 + 3*(2*A*a*c*d + (B*a + A*b)*c^2)*m)*n)*x*x^n*e^(m*log(e) + m*log(x)) + (A*a*c^2*m^4 + 24*A*a*c^2*n^4 + 4*A*a*c^2*m^3 + 6*A*a*c^2*m^2 + 4*A*a*c^2*m + A*a*c^2 + 50*(A*a*c^2*m + A*a*c^2)*n^3 + 35*(A*a*c^2*m^2 + 2*A*a*c^2*m + A*a*c^2)*n^2 + 10*(A*a*c^2*m^3 + 3*A*a*c^2*m^2 + 3*A*a*c^2*m + A*a*c^2)*n)*x*e^(m*log(e) + m*log(x)))/(m^5 + 24*(m + 1)*n^4 + 5*m^4 + 50*(m^2 + 2*m + 1)*n^3 + 10*m^3 + 35*(m^3 + 3*m^2 + 3*m + 1)*n^2 + 10*m^2 + 10*(m^4 + 4*m^3 + 6*m^2 + 4*m + 1)*n + 5*m + 1)

Sympy [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 25315 vs. $2(156) = 312$.

Time = 7.30 (sec) , antiderivative size = 25315, normalized size of antiderivative = 158.22

$$\int (ex)^m (a + bx^n) (A + Bx^n) (c + dx^n)^2 dx = \text{Too large to display}$$

```
[In] integrate((e*x)**m*(a+b*x**n)*(A+B*x**n)*(c+d*x**n)**2,x)
```

```
[Out] Piecewise(((A + B)*(a + b)*(c + d)**2*log(x)/e, Eq(m, -1) & Eq(n, 0)), ((A*
a*c**2*log(x) + 2*A*a*c*d*x**n/n + A*a*d**2*x**(2*n)/(2*n) + A*b*c**2*x**n/
n + A*b*c*d*x**(2*n)/n + A*b*d**2*x**(3*n)/(3*n) + B*a*c**2*x**n/n + B*a*c*
d*x**(2*n)/n + B*a*d**2*x**(3*n)/(3*n) + B*b*c**2*x**(2*n)/(2*n) + 2*B*b*c*
d*x**(3*n)/(3*n) + B*b*d**2*x**(4*n)/(4*n))/e, Eq(m, -1)), (A*a*c**2*Piecew
ise((0**(-4*n - 1)*x, Eq(e, 0)), (Piecewise((-1/(4*n*(e*x)**(4*n)), Ne(n, 0
)), (log(e*x), True))/e, True)) + 2*A*a*c*d*Piecewise((-x*x**n*(e*x)**(-4*n
- 1)/(3*n), Ne(n, 0)), (x*x**n*(e*x)**(-4*n - 1)*log(x), True)) + A*a*d**2
*Piecewise((-x*x**(2*n)*(e*x)**(-4*n - 1)/(2*n), Ne(n, 0)), (x*x**(2*n)*(e*
x)**(-4*n - 1)*log(x), True)) + A*b*c**2*Piecewise((-x*x**n*(e*x)**(-4*n -
1)/(3*n), Ne(n, 0)), (x*x**n*(e*x)**(-4*n - 1)*log(x), True)) + 2*A*b*c*d*P
iecewise((-x*x**(2*n)*(e*x)**(-4*n - 1)/(2*n), Ne(n, 0)), (x*x**(2*n)*(e*x)
**(-4*n - 1)*log(x), True)) + A*b*d**2*Piecewise((-x*x**(3*n)*(e*x)**(-4*n
- 1)/n, Ne(n, 0)), (x*x**(3*n)*(e*x)**(-4*n - 1)*log(x), True)) + B*a*c**2*
Piecewise((-x*x**n*(e*x)**(-4*n - 1)/(3*n), Ne(n, 0)), (x*x**n*(e*x)**(-4*n
- 1)*log(x), True)) + 2*B*a*c*d*Piecewise((-x*x**(2*n)*(e*x)**(-4*n - 1)/(
2*n), Ne(n, 0)), (x*x**(2*n)*(e*x)**(-4*n - 1)*log(x), True)) + B*a*d**2*Pi
ecewise((-x*x**(3*n)*(e*x)**(-4*n - 1)/n, Ne(n, 0)), (x*x**(3*n)*(e*x)**(-4
*n - 1)*log(x), True)) + B*b*c**2*Piecewise((-x*x**(2*n)*(e*x)**(-4*n - 1)/
(2*n), Ne(n, 0)), (x*x**(2*n)*(e*x)**(-4*n - 1)*log(x), True)) + 2*B*b*c*d*
Piecewise((-x*x**(3*n)*(e*x)**(-4*n - 1)/n, Ne(n, 0)), (x*x**(3*n)*(e*x)**(-
4*n - 1)*log(x), True)) + B*b*d**2*x*x**(4*n)*(e*x)**(-4*n - 1)*log(x), Eq
(m, -4*n - 1)), (A*a*c**2*Piecewise((0**(-3*n - 1)*x, Eq(e, 0)), (Piecewise
((-1/(3*n*(e*x)**(3*n)), Ne(n, 0)), (log(e*x), True))/e, True)) + 2*A*a*c*d
*Piecewise((-x*x**n*(e*x)**(-3*n - 1)/(2*n), Ne(n, 0)), (x*x**n*(e*x)**(-3*
n - 1)*log(x), True)) + A*a*d**2*Piecewise((-x*x**(2*n)*(e*x)**(-3*n - 1)/n
, Ne(n, 0)), (x*x**(2*n)*(e*x)**(-3*n - 1)*log(x), True)) + A*b*c**2*Piecew
ise((-x*x**n*(e*x)**(-3*n - 1)/(2*n), Ne(n, 0)), (x*x**n*(e*x)**(-3*n - 1)*
log(x), True)) + 2*A*b*c*d*Piecewise((-x*x**(2*n)*(e*x)**(-3*n - 1)/n, Ne(n
, 0)), (x*x**(2*n)*(e*x)**(-3*n - 1)*log(x), True)) + A*b*d**2*x*x**(3*n)*(
e*x)**(-3*n - 1)*log(x) + B*a*c**2*Piecewise((-x*x**n*(e*x)**(-3*n - 1)/(2*
n), Ne(n, 0)), (x*x**n*(e*x)**(-3*n - 1)*log(x), True)) + 2*B*a*c*d*Piecwi
se((-x*x**(2*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x*x**(2*n)*(e*x)**(-3*n -
1)*log(x), True)) + B*a*d**2*x*x**(3*n)*(e*x)**(-3*n - 1)*log(x) + B*b*c**2
*Piecewise((-x*x**(2*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x*x**(2*n)*(e*x)**
```

$$\begin{aligned}
& (-3n - 1) \log(x), \text{ True})) + 2B*b*c*d*x*x**(3n)*(e*x)**(-3n - 1) \log(x) + \\
& B*b*d**2*\text{Piecewise}((x*x**(4n)*(e*x)**(-3n - 1)/n, \text{Ne}(n, 0)), (x*x**(4n) \\
& *(e*x)**(-3n - 1) \log(x), \text{ True})), \text{Eq}(m, -3n - 1)), (A*a*c**2*\text{Piecewise}((0 \\
& **(-2n - 1)*x, \text{Eq}(e, 0)), (\text{Piecewise}((-1/(2n*(e*x)**(2n))), \text{Ne}(n, 0)), (1 \\
& \log(e*x), \text{ True}))/e, \text{ True})) + 2A*a*c*d*\text{Piecewise}((-x*x**n*(e*x)**(-2n - 1)/ \\
& n, \text{Ne}(n, 0)), (x*x**n*(e*x)**(-2n - 1) \log(x), \text{ True})) + A*a*d**2*x*x**(2n) \\
& *(e*x)**(-2n - 1) \log(x) + A*b*c**2*\text{Piecewise}((-x*x**n*(e*x)**(-2n - 1)/ \\
& n, \text{Ne}(n, 0)), (x*x**n*(e*x)**(-2n - 1) \log(x), \text{ True})) + 2A*b*c*d*x*x**(2n) \\
& *(e*x)**(-2n - 1) \log(x) + A*b*d**2*\text{Piecewise}((x*x**(3n)*(e*x)**(-2n - \\
& 1)/n, \text{Ne}(n, 0)), (x*x**(3n)*(e*x)**(-2n - 1) \log(x), \text{ True})) + B*a*c**2*\text{P} \\
& \text{iecewise}((-x*x**n*(e*x)**(-2n - 1)/n, \text{Ne}(n, 0)), (x*x**n*(e*x)**(-2n - 1) \\
& * \log(x), \text{ True})) + 2B*a*c*d*x*x**(2n)*(e*x)**(-2n - 1) \log(x) + B*a*d**2* \\
& \text{Piecewise}((x*x**(3n)*(e*x)**(-2n - 1)/n, \text{Ne}(n, 0)), (x*x**(3n)*(e*x)**(- \\
& 2n - 1) \log(x), \text{ True})) + B*b*c**2*x*x**(2n)*(e*x)**(-2n - 1) \log(x) + 2* \\
& B*b*c*d*\text{Piecewise}((x*x**(3n)*(e*x)**(-2n - 1)/n, \text{Ne}(n, 0)), (x*x**(3n)*(\\
& e*x)**(-2n - 1) \log(x), \text{ True})) + B*b*d**2*\text{Piecewise}((x*x**(4n)*(e*x)**(-2 \\
& n - 1)/(2n), \text{Ne}(n, 0)), (x*x**(4n)*(e*x)**(-2n - 1) \log(x), \text{ True})), \text{Eq} \\
& (m, -2n - 1)), (A*a*c**2*\text{Piecewise}((0**(-n - 1)*x, \text{Eq}(e, 0)), (\text{Piecewise}((- \\
& 1/(n*(e*x)**n), \text{Ne}(n, 0)), (\log(e*x), \text{ True}))/e, \text{ True})) + 2A*a*c*d*x*x**n*(\\
& e*x)**(-n - 1) \log(x) + A*a*d**2*\text{Piecewise}((x*x**(2n)*(e*x)**(-n - 1)/n, \text{N} \\
& e(n, 0)), (x*x**(2n)*(e*x)**(-n - 1) \log(x), \text{ True})) + A*b*c**2*x*x**n*(e*x) \\
& **(-n - 1) \log(x) + 2A*b*c*d*\text{Piecewise}((x*x**(2n)*(e*x)**(-n - 1)/n, \text{Ne} \\
& (n, 0)), (x*x**(2n)*(e*x)**(-n - 1) \log(x), \text{ True})) + A*b*d**2*\text{Piecewise}((x* \\
& x**(3n)*(e*x)**(-n - 1)/(2n), \text{Ne}(n, 0)), (x*x**(3n)*(e*x)**(-n - 1) \log \\
& (x), \text{ True})) + B*a*c**2*x*x**n*(e*x)**(-n - 1) \log(x) + 2B*a*c*d*\text{Piecewise}((\\
& x*x**(2n)*(e*x)**(-n - 1)/n, \text{Ne}(n, 0)), (x*x**(2n)*(e*x)**(-n - 1) \log(x) \\
& , \text{ True})) + B*a*d**2*\text{Piecewise}((x*x**(3n)*(e*x)**(-n - 1)/(2n), \text{Ne}(n, 0)), \\
& (x*x**(3n)*(e*x)**(-n - 1) \log(x), \text{ True})) + B*b*c**2*\text{Piecewise}((x*x**(2n) \\
&)*(e*x)**(-n - 1)/n, \text{Ne}(n, 0)), (x*x**(2n)*(e*x)**(-n - 1) \log(x), \text{ True})) \\
& + 2B*b*c*d*\text{Piecewise}((x*x**(3n)*(e*x)**(-n - 1)/(2n), \text{Ne}(n, 0)), (x*x**(\\
& 3n)*(e*x)**(-n - 1) \log(x), \text{ True})) + B*b*d**2*\text{Piecewise}((x*x**(4n)*(e*x)* \\
& *(-n - 1)/(3n), \text{Ne}(n, 0)), (x*x**(4n)*(e*x)**(-n - 1) \log(x), \text{ True})), \text{Eq} \\
& (m, -n - 1)), (A*a*c**2*m**4*x*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3 \\
& *n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10 \\
& *m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n \\
& **3 + 35*n**2 + 10*n + 1) + 10*A*a*c**2*m**3*n*x*(e*x)**m/(m**5 + 10*m**4*n \\
& + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n* \\
& *2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5 \\
& *m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 4*A*a*c**2*m**3*x*(e*x)**m/(\\
& m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n* \\
& *3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n \\
& **2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 35*A*a*c**2* \\
& m**2*n**2*x*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n \\
& + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 \\
& + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10
\end{aligned}$$

$$\begin{aligned}
& *n + 1) + 30*A*a*c**2*m**2*n*x*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m** \\
& 3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 1 \\
& 0*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50* \\
& n**3 + 35*n**2 + 10*n + 1) + 6*A*a*c**2*m**2*x*(e*x)**m/(m**5 + 10*m**4*n + \\
& 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 \\
& + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m \\
& + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 50*A*a*c**2*m*n**3*x*(e*x)**m/ \\
& (m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n \\
& **3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m* \\
& n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 70*A*a*c**2 \\
& *m*n**2*x*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + \\
& 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + \\
& 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n \\
& + 1) + 30*A*a*c**2*m*n*x*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n** \\
& 2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m** \\
& 2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 \\
& + 35*n**2 + 10*n + 1) + 4*A*a*c**2*m*x*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 \\
& + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m* \\
& *2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n* \\
& **4 + 50*n**3 + 35*n**2 + 10*n + 1) + 24*A*a*c**2*n**4*x*(e*x)**m/(m**5 + 10 \\
& *m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105* \\
& m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40* \\
& m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 50*A*a*c**2*n**3*x*(e \\
& *x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50 \\
& *m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + \\
& 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 35*A \\
& *a*c**2*n**2*x*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3 \\
& *n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n* \\
& **4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + \\
& 10*n + 1) + 10*A*a*c**2*n*x*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3* \\
& n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10* \\
& m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n* \\
& **3 + 35*n**2 + 10*n + 1) + A*a*c**2*x*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + \\
& 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m** \\
& 2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n** \\
& 4 + 50*n**3 + 35*n**2 + 10*n + 1) + 2*A*a*c*d*m**4*x*x**n*(e*x)**m/(m**5 + \\
& 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 10 \\
& 5*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 4 \\
& 0*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 18*A*a*c*d*m**3*n*x \\
& *x**n*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m \\
& **3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100* \\
& m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1 \\
&) + 8*A*a*c*d*m**3*x*x**n*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n** \\
& 2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m** \\
& 2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3
\end{aligned}$$

$$\begin{aligned}
& *m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} \\
& + 35*n^{**2} + 10*n + 1) + 19*A*a*d^{**2}*m^{**2}*n^{**2}*x*x^{**2}*n)*(e*x)^{**m}/(m^{**5} \\
& + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + \\
& 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} \\
& + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 24*A*a*d^{**2}*m^{**2} \\
& *n*x*x^{**2}*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}* \\
& n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} \\
& + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + \\
& 10*n + 1) + 6*A*a*d^{**2}*m^{**2}*x*x^{**2}*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} \\
& + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2} \\
& *n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} \\
& + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 12*A*a*d^{**2}*m*n^{**3}*x*x^{**2}*n)*(e*x)^{**m} \\
& /(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2} \\
& *n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m \\
& *n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 38*A*a*d^{**2} \\
& *m*n^{**2}*x*x^{**2}*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40 \\
& *m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24 \\
& *m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} \\
& + 10*n + 1) + 24*A*a*d^{**2}*m*n*x*x^{**2}*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5 \\
& *m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + \\
& 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + \\
& 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 4*A*a*d^{**2}*m*x*x^{**2}*n)*(e*x)^{**m} \\
& /(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2} \\
& *n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m \\
& *n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 12*A*a*d^{**2} \\
& *n^{**3}*x*x^{**2}*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m \\
& **3*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m \\
& *n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} \\
& + 10*n + 1) + 19*A*a*d^{**2}*n^{**2}*x*x^{**2}*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5* \\
& m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + \\
& 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + \\
& 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 8*A*a*d^{**2}*n*x*x^{**2}*n)*(e*x)^{**m}/ \\
& (m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n \\
& **3 + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m \\
& n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + A*a*d^{**2}*x \\
& x^{**2}*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 1 \\
& 0*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 1 \\
& 00*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n \\
& + 1) + A*b*c^{**2}*m^{**4}*x*x^{**2}*n*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n \\
& **2 + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m \\
& **2 + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} \\
& + 35*n^{**2} + 10*n + 1) + 9*A*b*c^{**2}*m^{**3}*n*x*x^{**2}*n*(e*x)^{**m}/(m^{**5} + 10*m^{**4} \\
& *n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2} \\
& n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + \\
& 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 4*A*b*c^{**2}*m^{**3}*x*x^{**2}*n*(e
\end{aligned}$$

$$\begin{aligned}
& x) **m / (m **5 + 10 * m **4 * n + 5 * m **4 + 35 * m **3 * n **2 + 40 * m **3 * n + 10 * m **3 + 50 * \\
& m **2 * n **3 + 105 * m **2 * n **2 + 60 * m **2 * n + 10 * m **2 + 24 * m * n **4 + 100 * m * n **3 + \\
& 105 * m * n **2 + 40 * m * n + 5 * m + 24 * n **4 + 50 * n **3 + 35 * n **2 + 10 * n + 1) + 26 * A * \\
& b * c **2 * m **2 * n **2 * x * x **n * (e * x) **m / (m **5 + 10 * m **4 * n + 5 * m **4 + 35 * m **3 * n **2 \\
& + 40 * m **3 * n + 10 * m **3 + 50 * m **2 * n **3 + 105 * m **2 * n **2 + 60 * m **2 * n + 10 * m **2 \\
& + 24 * m * n **4 + 100 * m * n **3 + 105 * m * n **2 + 40 * m * n + 5 * m + 24 * n **4 + 50 * n **3 + \\
& 35 * n **2 + 10 * n + 1) + 27 * A * b * c **2 * m **2 * n * x * x **n * (e * x) **m / (m **5 + 10 * m **4 * n \\
& + 5 * m **4 + 35 * m **3 * n **2 + 40 * m **3 * n + 10 * m **3 + 50 * m **2 * n **3 + 105 * m **2 * n ** \\
& 2 + 60 * m **2 * n + 10 * m **2 + 24 * m * n **4 + 100 * m * n **3 + 105 * m * n **2 + 40 * m * n + 5 * \\
& m + 24 * n **4 + 50 * n **3 + 35 * n **2 + 10 * n + 1) + 6 * A * b * c **2 * m **2 * x * x **n * (e * x) * \\
& * m / (m **5 + 10 * m **4 * n + 5 * m **4 + 35 * m **3 * n **2 + 40 * m **3 * n + 10 * m **3 + 50 * m ** \\
& 2 * n **3 + 105 * m **2 * n **2 + 60 * m **2 * n + 10 * m **2 + 24 * m * n **4 + 100 * m * n **3 + 105 \\
& * m * n **2 + 40 * m * n + 5 * m + 24 * n **4 + 50 * n **3 + 35 * n **2 + 10 * n + 1) + 24 * A * b * c \\
& **2 * m * n **3 * x * x **n * (e * x) **m / (m **5 + 10 * m **4 * n + 5 * m **4 + 35 * m **3 * n **2 + 40 * m \\
& **3 * n + 10 * m **3 + 50 * m **2 * n **3 + 105 * m **2 * n **2 + 60 * m **2 * n + 10 * m **2 + 24 * m \\
& * n **4 + 100 * m * n **3 + 105 * m * n **2 + 40 * m * n + 5 * m + 24 * n **4 + 50 * n **3 + 35 * n ** \\
& 2 + 10 * n + 1) + 52 * A * b * c **2 * m * n **2 * x * x **n * (e * x) **m / (m **5 + 10 * m **4 * n + 5 * m * \\
& * 4 + 35 * m **3 * n **2 + 40 * m **3 * n + 10 * m **3 + 50 * m **2 * n **3 + 105 * m **2 * n **2 + 60 \\
& * m **2 * n + 10 * m **2 + 24 * m * n **4 + 100 * m * n **3 + 105 * m * n **2 + 40 * m * n + 5 * m + 24 \\
& * n **4 + 50 * n **3 + 35 * n **2 + 10 * n + 1) + 27 * A * b * c **2 * m * n * x * x **n * (e * x) **m / (m * \\
& * 5 + 10 * m **4 * n + 5 * m **4 + 35 * m **3 * n **2 + 40 * m **3 * n + 10 * m **3 + 50 * m **2 * n **3 \\
& + 105 * m **2 * n **2 + 60 * m **2 * n + 10 * m **2 + 24 * m * n **4 + 100 * m * n **3 + 105 * m * n ** \\
& 2 + 40 * m * n + 5 * m + 24 * n **4 + 50 * n **3 + 35 * n **2 + 10 * n + 1) + 4 * A * b * c **2 * m * x \\
& * x **n * (e * x) **m / (m **5 + 10 * m **4 * n + 5 * m **4 + 35 * m **3 * n **2 + 40 * m **3 * n + 10 * m \\
& **3 + 50 * m **2 * n **3 + 105 * m **2 * n **2 + 60 * m **2 * n + 10 * m **2 + 24 * m * n **4 + 100 * \\
& m * n **3 + 105 * m * n **2 + 40 * m * n + 5 * m + 24 * n **4 + 50 * n **3 + 35 * n **2 + 10 * n + 1 \\
&) + 24 * A * b * c **2 * n **3 * x * x **n * (e * x) **m / (m **5 + 10 * m **4 * n + 5 * m **4 + 35 * m **3 * n \\
& **2 + 40 * m **3 * n + 10 * m **3 + 50 * m **2 * n **3 + 105 * m **2 * n **2 + 60 * m **2 * n + 10 * m \\
& **2 + 24 * m * n **4 + 100 * m * n **3 + 105 * m * n **2 + 40 * m * n + 5 * m + 24 * n **4 + 50 * n ** \\
& 3 + 35 * n **2 + 10 * n + 1) + 26 * A * b * c **2 * n **2 * x * x **n * (e * x) **m / (m **5 + 10 * m **4 * \\
& n + 5 * m **4 + 35 * m **3 * n **2 + 40 * m **3 * n + 10 * m **3 + 50 * m **2 * n **3 + 105 * m **2 * n \\
& **2 + 60 * m **2 * n + 10 * m **2 + 24 * m * n **4 + 100 * m * n **3 + 105 * m * n **2 + 40 * m * n + \\
& 5 * m + 24 * n **4 + 50 * n **3 + 35 * n **2 + 10 * n + 1) + 9 * A * b * c **2 * n * x * x **n * (e * x) ** \\
& m / (m **5 + 10 * m **4 * n + 5 * m **4 + 35 * m **3 * n **2 + 40 * m **3 * n + 10 * m **3 + 50 * m **2 \\
& * n **3 + 105 * m **2 * n **2 + 60 * m **2 * n + 10 * m **2 + 24 * m * n **4 + 100 * m * n **3 + 105 * \\
& m * n **2 + 40 * m * n + 5 * m + 24 * n **4 + 50 * n **3 + 35 * n **2 + 10 * n + 1) + A * b * c **2 * \\
& x * x **n * (e * x) **m / (m **5 + 10 * m **4 * n + 5 * m **4 + 35 * m **3 * n **2 + 40 * m **3 * n + 10 * \\
& m **3 + 50 * m **2 * n **3 + 105 * m **2 * n **2 + 60 * m **2 * n + 10 * m **2 + 24 * m * n **4 + 100 \\
& * m * n **3 + 105 * m * n **2 + 40 * m * n + 5 * m + 24 * n **4 + 50 * n **3 + 35 * n **2 + 10 * n + \\
& 1) + 2 * A * b * c * d * m **4 * x * x ** (2 * n) * (e * x) **m / (m **5 + 10 * m **4 * n + 5 * m **4 + 35 * m ** \\
& 3 * n **2 + 40 * m **3 * n + 10 * m **3 + 50 * m **2 * n **3 + 105 * m **2 * n **2 + 60 * m **2 * n + 1 \\
& 0 * m **2 + 24 * m * n **4 + 100 * m * n **3 + 105 * m * n **2 + 40 * m * n + 5 * m + 24 * n **4 + 50 * \\
& n **3 + 35 * n **2 + 10 * n + 1) + 16 * A * b * c * d * m **3 * n * x * x ** (2 * n) * (e * x) **m / (m **5 + \\
& 10 * m **4 * n + 5 * m **4 + 35 * m **3 * n **2 + 40 * m **3 * n + 10 * m **3 + 50 * m **2 * n **3 + 10 \\
& 5 * m **2 * n **2 + 60 * m **2 * n + 10 * m **2 + 24 * m * n **4 + 100 * m * n **3 + 105 * m * n **2 + 4
\end{aligned}$$

$$\begin{aligned}
& 0*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 8*A*b*c*d*m**3*x*x* \\
& *(2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10* \\
& m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100 \\
& *m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + \\
& 1) + 38*A*b*c*d*m**2*n**2*x*x*(2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + \\
& 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2 \\
& *n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 \\
& + 50*n**3 + 35*n**2 + 10*n + 1) + 48*A*b*c*d*m**2*n*x*x*(2*n)*(e*x)**m/(m \\
& **5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n** \\
& 3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n* \\
& *2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 12*A*b*c*d*m* \\
& *2*x*x*(2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3* \\
& n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n** \\
& 4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + \\
& 10*n + 1) + 24*A*b*c*d*m*n**3*x*x*(2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m** \\
& 4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60* \\
& m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24* \\
& n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 76*A*b*c*d*m*n**2*x*x*(2*n)*(e*x)** \\
& m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2 \\
& *n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105* \\
& m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 48*A*b*c* \\
& d*m*n*x*x*(2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m* \\
& *3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m* \\
& n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 \\
& + 10*n + 1) + 8*A*b*c*d*m*x*x*(2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + \\
& 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m** \\
& 2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n** \\
& 4 + 50*n**3 + 35*n**2 + 10*n + 1) + 24*A*b*c*d*n**3*x*x*(2*n)*(e*x)**m/(m* \\
& *5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 \\
& + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n** \\
& 2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 38*A*b*c*d*n** \\
& 2*x*x*(2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n \\
& + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 \\
& + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 1 \\
& 0*n + 1) + 16*A*b*c*d*n*x*x*(2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35 \\
& *m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n \\
& + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + \\
& 50*n**3 + 35*n**2 + 10*n + 1) + 2*A*b*c*d*x*x*(2*n)*(e*x)**m/(m**5 + 10*m \\
& **4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m* \\
& *2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m* \\
& n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + A*b*d**2*m**4*x*x*(3*n \\
&)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 \\
& + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n* \\
& *3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + \\
& 7*A*b*d**2*m**3*n*x*x*(3*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*
\end{aligned}$$

$$\begin{aligned}
& n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10* \\
& m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n* \\
& *3 + 35*n^{**2} + 10*n + 1) + 4*A*b*d^{**2}*m^{**3}*x*x^{**3}*n*(e*x)^{**m}/(m^{**5} + 10*m \\
& **4*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m* \\
& **2*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m* \\
& n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 14*A*b*d^{**2}*m^{**2}*n^{**2}*x \\
& *x^{**3}*n*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + \\
& 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + \\
& 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n \\
& + 1) + 21*A*b*d^{**2}*m^{**2}*n*x*x^{**3}*n*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + \\
& 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{** \\
& 2*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{** \\
& 4 + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 6*A*b*d^{**2}*m^{**2}*x*x^{**3}*n*(e*x)^{**m}/(m* \\
& *5 + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} \\
& + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{** \\
& 2 + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 8*A*b*d^{**2}*m*n \\
& **3*x*x^{**3}*n*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3} \\
& *n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n* \\
& **4 + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + \\
& 10*n + 1) + 28*A*b*d^{**2}*m*n^{**2}*x*x^{**3}*n*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m \\
& **4 + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 6 \\
& 0*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 2 \\
& 4*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 21*A*b*d^{**2}*m*n*x*x^{**3}*n*(e*x)^{** \\
& m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2} \\
& *n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105* \\
& m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 4*A*b*d^{** \\
& 2}*m*x*x^{**3}*n*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3} \\
& *n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n* \\
& **4 + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + \\
& 10*n + 1) + 8*A*b*d^{**2}*n^{**3}*x*x^{**3}*n*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} \\
& + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m \\
& **2*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n \\
& **4 + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 14*A*b*d^{**2}*n^{**2}*x*x^{**3}*n*(e*x)^{**m}/ \\
& (m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n \\
& **3 + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m* \\
& n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 7*A*b*d^{**2}* \\
& n*x*x^{**3}*n*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n \\
& + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} \\
& + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 1 \\
& 0*n + 1) + A*b*d^{**2}*x*x^{**3}*n*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{** \\
& 3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 1 \\
& 0*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50* \\
& n^{**3} + 35*n^{**2} + 10*n + 1) + B*a*c*c^{**2}*m^{**4}*x*x^{**n}*(e*x)^{**m}/(m^{**5} + 10*m^{**4}* \\
& n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n \\
& **2 + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n +
\end{aligned}$$

$$\begin{aligned}
& 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + 10n + 1) + 9B*a*c^{**2}m^{**3}n*x*x^{**n}(e \\
& *x)^{**m}/(m^{**5} + 10m^{**4}n + 5m^{**4} + 35m^{**3}n^{**2} + 40m^{**3}n + 10m^{**3} + 50 \\
& *m^{**2}n^{**3} + 105m^{**2}n^{**2} + 60m^{**2}n + 10m^{**2} + 24m*n^{**4} + 100m*n^{**3} + \\
& 105m*n^{**2} + 40m*n + 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + 10n + 1) + 4*B* \\
& a*c^{**2}m^{**3}x*x^{**n}(e*x)^{**m}/(m^{**5} + 10m^{**4}n + 5m^{**4} + 35m^{**3}n^{**2} + 40* \\
& m^{**3}n + 10m^{**3} + 50m^{**2}n^{**3} + 105m^{**2}n^{**2} + 60m^{**2}n + 10m^{**2} + 24* \\
& m*n^{**4} + 100m*n^{**3} + 105m*n^{**2} + 40m*n + 5m + 24n^{**4} + 50n^{**3} + 35n* \\
& *2 + 10n + 1) + 26*B*a*c^{**2}m^{**2}n^{**2}x*x^{**n}(e*x)^{**m}/(m^{**5} + 10m^{**4}n + \\
& 5m^{**4} + 35m^{**3}n^{**2} + 40m^{**3}n + 10m^{**3} + 50m^{**2}n^{**3} + 105m^{**2}n^{**2} \\
& + 60m^{**2}n + 10m^{**2} + 24m*n^{**4} + 100m*n^{**3} + 105m*n^{**2} + 40m*n + 5m \\
& + 24n^{**4} + 50n^{**3} + 35n^{**2} + 10n + 1) + 27*B*a*c^{**2}m^{**2}n*x*x^{**n}(e*x) \\
& ^{**m}/(m^{**5} + 10m^{**4}n + 5m^{**4} + 35m^{**3}n^{**2} + 40m^{**3}n + 10m^{**3} + 50m* \\
& *2n^{**3} + 105m^{**2}n^{**2} + 60m^{**2}n + 10m^{**2} + 24m*n^{**4} + 100m*n^{**3} + 10 \\
& 5m*n^{**2} + 40m*n + 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + 10n + 1) + 6*B*a*c \\
& ^{**2}m^{**2}x*x^{**n}(e*x)^{**m}/(m^{**5} + 10m^{**4}n + 5m^{**4} + 35m^{**3}n^{**2} + 40m^{** \\
& 3n + 10m^{**3} + 50m^{**2}n^{**3} + 105m^{**2}n^{**2} + 60m^{**2}n + 10m^{**2} + 24m*n \\
& ^{**4} + 100m*n^{**3} + 105m*n^{**2} + 40m*n + 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} \\
& + 10n + 1) + 24*B*a*c^{**2}m*n^{**3}x*x^{**n}(e*x)^{**m}/(m^{**5} + 10m^{**4}n + 5m^{**4} \\
& + 35m^{**3}n^{**2} + 40m^{**3}n + 10m^{**3} + 50m^{**2}n^{**3} + 105m^{**2}n^{**2} + 60m \\
& ^{**2}n + 10m^{**2} + 24m*n^{**4} + 100m*n^{**3} + 105m*n^{**2} + 40m*n + 5m + 24n \\
& ^{**4} + 50n^{**3} + 35n^{**2} + 10n + 1) + 52*B*a*c^{**2}m*n^{**2}x*x^{**n}(e*x)^{**m}/(m \\
& ^{**5} + 10m^{**4}n + 5m^{**4} + 35m^{**3}n^{**2} + 40m^{**3}n + 10m^{**3} + 50m^{**2}n^{** \\
& 3 + 105m^{**2}n^{**2} + 60m^{**2}n + 10m^{**2} + 24m*n^{**4} + 100m*n^{**3} + 105m*n* \\
& *2 + 40m*n + 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + 10n + 1) + 27*B*a*c^{**2}m \\
& *n*x*x^{**n}(e*x)^{**m}/(m^{**5} + 10m^{**4}n + 5m^{**4} + 35m^{**3}n^{**2} + 40m^{**3}n + \\
& 10m^{**3} + 50m^{**2}n^{**3} + 105m^{**2}n^{**2} + 60m^{**2}n + 10m^{**2} + 24m*n^{**4} + \\
& 100m*n^{**3} + 105m*n^{**2} + 40m*n + 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + 10n \\
& + 1) + 4*B*a*c^{**2}m*x*x^{**n}(e*x)^{**m}/(m^{**5} + 10m^{**4}n + 5m^{**4} + 35m^{**3}n \\
& ^{**2} + 40m^{**3}n + 10m^{**3} + 50m^{**2}n^{**3} + 105m^{**2}n^{**2} + 60m^{**2}n + 10m \\
& ^{**2} + 24m*n^{**4} + 100m*n^{**3} + 105m*n^{**2} + 40m*n + 5m + 24n^{**4} + 50n^{** \\
& 3 + 35n^{**2} + 10n + 1) + 24*B*a*c^{**2}n^{**3}x*x^{**n}(e*x)^{**m}/(m^{**5} + 10m^{**4}n \\
& + 5m^{**4} + 35m^{**3}n^{**2} + 40m^{**3}n + 10m^{**3} + 50m^{**2}n^{**3} + 105m^{**2}n \\
& ^{**2} + 60m^{**2}n + 10m^{**2} + 24m*n^{**4} + 100m*n^{**3} + 105m*n^{**2} + 40m*n + \\
& 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + 10n + 1) + 26*B*a*c^{**2}n^{**2}x*x^{**n}(e \\
& x)^{**m}/(m^{**5} + 10m^{**4}n + 5m^{**4} + 35m^{**3}n^{**2} + 40m^{**3}n + 10m^{**3} + 50* \\
& m^{**2}n^{**3} + 105m^{**2}n^{**2} + 60m^{**2}n + 10m^{**2} + 24m*n^{**4} + 100m*n^{**3} + \\
& 105m*n^{**2} + 40m*n + 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + 10n + 1) + 9*B*a \\
& *c^{**2}n*x*x^{**n}(e*x)^{**m}/(m^{**5} + 10m^{**4}n + 5m^{**4} + 35m^{**3}n^{**2} + 40m^{**3} \\
& *n + 10m^{**3} + 50m^{**2}n^{**3} + 105m^{**2}n^{**2} + 60m^{**2}n + 10m^{**2} + 24m*n* \\
& ^{**4} + 100m*n^{**3} + 105m*n^{**2} + 40m*n + 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + \\
& 10n + 1) + B*a*c^{**2}x*x^{**n}(e*x)^{**m}/(m^{**5} + 10m^{**4}n + 5m^{**4} + 35m^{**3}n \\
& n^{**2} + 40m^{**3}n + 10m^{**3} + 50m^{**2}n^{**3} + 105m^{**2}n^{**2} + 60m^{**2}n + 10* \\
& m^{**2} + 24m*n^{**4} + 100m*n^{**3} + 105m*n^{**2} + 40m*n + 5m + 24n^{**4} + 50n* \\
& *3 + 35n^{**2} + 10n + 1) + 2*B*a*c*d*m^{**4}x*x^{**2n}(e*x)^{**m}/(m^{**5} + 10m* \\
& ^{**4}n + 5m^{**4} + 35m^{**3}n^{**2} + 40m^{**3}n + 10m^{**3} + 50m^{**2}n^{**3} + 105m^{**
\end{aligned}$$

$$\begin{aligned}
& 2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n \\
& + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 16*B*a*c*d*m**3*n*x*x** \\
& (2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m* \\
& *3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m \\
& *n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) \\
& + 8*B*a*c*d*m**3*x*x** (2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3* \\
& n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10* \\
& m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n* \\
& *3 + 35*n**2 + 10*n + 1) + 38*B*a*c*d*m**2*n**2*x*x** (2*n)*(e*x)**m/(m**5 + \\
& 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 1 \\
& 05*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + \\
& 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 48*B*a*c*d*m**2*n* \\
& x*x** (2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + \\
& 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + \\
& 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10* \\
& n + 1) + 12*B*a*c*d*m**2*x*x** (2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 3 \\
& 5*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2* \\
& n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 \\
& + 50*n**3 + 35*n**2 + 10*n + 1) + 24*B*a*c*d*m*n**3*x*x** (2*n)*(e*x)**m/(m* \\
& *5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 \\
& + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n** \\
& 2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 76*B*a*c*d*m*n \\
& **2*x*x** (2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3 \\
& *n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n* \\
& *4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + \\
& 10*n + 1) + 48*B*a*c*d*m*n*x*x** (2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 \\
& + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m* \\
& *2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n* \\
& *4 + 50*n**3 + 35*n**2 + 10*n + 1) + 8*B*a*c*d*m*x*x** (2*n)*(e*x)**m/(m**5 \\
& + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + \\
& 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + \\
& 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 24*B*a*c*d*n**3*x \\
& *x** (2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + \\
& 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + \\
& 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n \\
& + 1) + 38*B*a*c*d*n**2*x*x** (2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35 \\
& *m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n \\
& + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + \\
& 50*n**3 + 35*n**2 + 10*n + 1) + 16*B*a*c*d*n*x*x** (2*n)*(e*x)**m/(m**5 + 1 \\
& 0*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105 \\
& *m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40 \\
& *m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 2*B*a*c*d*x*x** (2*n) \\
& *(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + \\
& 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n** \\
& 3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + B
\end{aligned}$$

$$\begin{aligned}
& *a*d**2*m**4*x*x**(3*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 \\
& + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 \\
& + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + \\
& 35*n**2 + 10*n + 1) + 7*B*a*d**2*m**3*n*x*x**(3*n)*(e*x)**m/(m**5 + 10*m**4 \\
& *n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2* \\
& n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + \\
& 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 4*B*a*d**2*m**3*x*x**(3*n) \\
& *(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + \\
& 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n** \\
& 3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 1 \\
& 4*B*a*d**2*m**2*n**2*x*x**(3*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m* \\
& **3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + \\
& 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50 \\
& *n**3 + 35*n**2 + 10*n + 1) + 21*B*a*d**2*m**2*n*x*x**(3*n)*(e*x)**m/(m**5 \\
& + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + \\
& 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + \\
& 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 6*B*a*d**2*m**2*x \\
& *x**(3*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + \\
& 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + \\
& 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n \\
& + 1) + 8*B*a*d**2*m*n**3*x*x**(3*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + \\
& 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2 \\
& *n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 \\
& + 50*n**3 + 35*n**2 + 10*n + 1) + 28*B*a*d**2*m*n**2*x*x**(3*n)*(e*x)**m/(\\
& m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n* \\
& **3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n \\
& **2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 21*B*a*d**2* \\
& m*n*x*x**(3*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3 \\
& *n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n* \\
& **4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + \\
& 10*n + 1) + 4*B*a*d**2*m*x*x**(3*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + \\
& 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2 \\
& *n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 \\
& + 50*n**3 + 35*n**2 + 10*n + 1) + 8*B*a*d**2*n**3*x*x**(3*n)*(e*x)**m/(m** \\
& 5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 \\
& + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 \\
& + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 14*B*a*d**2*n** \\
& 2*x*x**(3*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n \\
& + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 \\
& + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 1 \\
& 0*n + 1) + 7*B*a*d**2*n*x*x**(3*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35 \\
& *m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n \\
& + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + \\
& 50*n**3 + 35*n**2 + 10*n + 1) + B*a*d**2*x*x**(3*n)*(e*x)**m/(m**5 + 10*m* \\
& **4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**
\end{aligned}$$

$$\begin{aligned}
& 2n^{**2} + 60m^{**2}n + 10m^{**2} + 24m*n^{**4} + 100m*n^{**3} + 105m*n^{**2} + 40m*n \\
& + 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + 10n + 1) + B*b*c^{**2}m^{**4}x*x^{**}(2n) \\
& *(e*x)^{**m}/(m^{**5} + 10m^{**4}n + 5m^{**4} + 35m^{**3}n^{**2} + 40m^{**3}n + 10m^{**3} + \\
& 50m^{**2}n^{**3} + 105m^{**2}n^{**2} + 60m^{**2}n + 10m^{**2} + 24m*n^{**4} + 100m*n^{**3} \\
& + 105m*n^{**2} + 40m*n + 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + 10n + 1) + 8 \\
& *B*b*c^{**2}m^{**3}n*x*x^{**}(2n)*(e*x)^{**m}/(m^{**5} + 10m^{**4}n + 5m^{**4} + 35m^{**3}n \\
& **2 + 40m^{**3}n + 10m^{**3} + 50m^{**2}n^{**3} + 105m^{**2}n^{**2} + 60m^{**2}n + 10m \\
& **2 + 24m*n^{**4} + 100m*n^{**3} + 105m*n^{**2} + 40m*n + 5m + 24n^{**4} + 50n^{**3} \\
& + 35n^{**2} + 10n + 1) + 4*B*b*c^{**2}m^{**3}x*x^{**}(2n)*(e*x)^{**m}/(m^{**5} + 10m* \\
& **4n + 5m^{**4} + 35m^{**3}n^{**2} + 40m^{**3}n + 10m^{**3} + 50m^{**2}n^{**3} + 105m^{**2} \\
& n^{**2} + 60m^{**2}n + 10m^{**2} + 24m*n^{**4} + 100m*n^{**3} + 105m*n^{**2} + 40m*n \\
& + 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + 10n + 1) + 19*B*b*c^{**2}m^{**2}n^{**2}x* \\
& x^{**}(2n)*(e*x)^{**m}/(m^{**5} + 10m^{**4}n + 5m^{**4} + 35m^{**3}n^{**2} + 40m^{**3}n + 1 \\
& 0m^{**3} + 50m^{**2}n^{**3} + 105m^{**2}n^{**2} + 60m^{**2}n + 10m^{**2} + 24m*n^{**4} + 1 \\
& 00m*n^{**3} + 105m*n^{**2} + 40m*n + 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + 10n \\
& + 1) + 24*B*b*c^{**2}m^{**2}n*x*x^{**}(2n)*(e*x)^{**m}/(m^{**5} + 10m^{**4}n + 5m^{**4} + \\
& 35m^{**3}n^{**2} + 40m^{**3}n + 10m^{**3} + 50m^{**2}n^{**3} + 105m^{**2}n^{**2} + 60m^{**2} \\
& *n + 10m^{**2} + 24m*n^{**4} + 100m*n^{**3} + 105m*n^{**2} + 40m*n + 5m + 24n^{**4} \\
& + 50n^{**3} + 35n^{**2} + 10n + 1) + 6*B*b*c^{**2}m^{**2}x*x^{**}(2n)*(e*x)^{**m}/(m^{**} \\
& 5 + 10m^{**4}n + 5m^{**4} + 35m^{**3}n^{**2} + 40m^{**3}n + 10m^{**3} + 50m^{**2}n^{**3} \\
& + 105m^{**2}n^{**2} + 60m^{**2}n + 10m^{**2} + 24m*n^{**4} + 100m*n^{**3} + 105m*n^{**2} \\
& + 40m*n + 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + 10n + 1) + 12*B*b*c^{**2}m*n \\
& **3x*x^{**}(2n)*(e*x)^{**m}/(m^{**5} + 10m^{**4}n + 5m^{**4} + 35m^{**3}n^{**2} + 40m^{**3} \\
& *n + 10m^{**3} + 50m^{**2}n^{**3} + 105m^{**2}n^{**2} + 60m^{**2}n + 10m^{**2} + 24m*n* \\
& **4 + 100m*n^{**3} + 105m*n^{**2} + 40m*n + 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + \\
& 10n + 1) + 38*B*b*c^{**2}m*n^{**2}x*x^{**}(2n)*(e*x)^{**m}/(m^{**5} + 10m^{**4}n + 5m \\
& **4 + 35m^{**3}n^{**2} + 40m^{**3}n + 10m^{**3} + 50m^{**2}n^{**3} + 105m^{**2}n^{**2} + 6 \\
& 0m^{**2}n + 10m^{**2} + 24m*n^{**4} + 100m*n^{**3} + 105m*n^{**2} + 40m*n + 5m + 2 \\
& 4n^{**4} + 50n^{**3} + 35n^{**2} + 10n + 1) + 24*B*b*c^{**2}m*n*x*x^{**}(2n)*(e*x)^{**} \\
& m/(m^{**5} + 10m^{**4}n + 5m^{**4} + 35m^{**3}n^{**2} + 40m^{**3}n + 10m^{**3} + 50m^{**2} \\
& n^{**3} + 105m^{**2}n^{**2} + 60m^{**2}n + 10m^{**2} + 24m*n^{**4} + 100m*n^{**3} + 105* \\
& m*n^{**2} + 40m*n + 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + 10n + 1) + 4*B*b*c^{**2} \\
& m*x*x^{**}(2n)*(e*x)^{**m}/(m^{**5} + 10m^{**4}n + 5m^{**4} + 35m^{**3}n^{**2} + 40m^{**3} \\
& *n + 10m^{**3} + 50m^{**2}n^{**3} + 105m^{**2}n^{**2} + 60m^{**2}n + 10m^{**2} + 24m*n* \\
& **4 + 100m*n^{**3} + 105m*n^{**2} + 40m*n + 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + \\
& 10n + 1) + 12*B*b*c^{**2}n^{**3}x*x^{**}(2n)*(e*x)^{**m}/(m^{**5} + 10m^{**4}n + 5m^{**} \\
& 4 + 35m^{**3}n^{**2} + 40m^{**3}n + 10m^{**3} + 50m^{**2}n^{**3} + 105m^{**2}n^{**2} + 60* \\
& m^{**2}n + 10m^{**2} + 24m*n^{**4} + 100m*n^{**3} + 105m*n^{**2} + 40m*n + 5m + 24* \\
& n^{**4} + 50n^{**3} + 35n^{**2} + 10n + 1) + 19*B*b*c^{**2}n^{**2}x*x^{**}(2n)*(e*x)^{**m} \\
& /(m^{**5} + 10m^{**4}n + 5m^{**4} + 35m^{**3}n^{**2} + 40m^{**3}n + 10m^{**3} + 50m^{**2}* \\
& n^{**3} + 105m^{**2}n^{**2} + 60m^{**2}n + 10m^{**2} + 24m*n^{**4} + 100m*n^{**3} + 105m* \\
& n^{**2} + 40m*n + 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} + 10n + 1) + 8*B*b*c^{**2} \\
& n*x*x^{**}(2n)*(e*x)^{**m}/(m^{**5} + 10m^{**4}n + 5m^{**4} + 35m^{**3}n^{**2} + 40m^{**3}* \\
& n + 10m^{**3} + 50m^{**2}n^{**3} + 105m^{**2}n^{**2} + 60m^{**2}n + 10m^{**2} + 24m*n^{**} \\
& 4 + 100m*n^{**3} + 105m*n^{**2} + 40m*n + 5m + 24n^{**4} + 50n^{**3} + 35n^{**2} +
\end{aligned}$$

$$\begin{aligned}
& 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + \\
& 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 2*B*b*c*d*x*x^{**3} \\
& *n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} \\
& 3 + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m* \\
& n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) \\
& + B*b*d^{**2}*m^{**4}*x*x^{**4}*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n* \\
& **2 + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m* \\
& **2 + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} \\
& + 35*n^{**2} + 10*n + 1) + 6*B*b*d^{**2}*m^{**3}*n*x*x^{**4}*n)*(e*x)^{**m}/(m^{**5} + 10*m \\
& **4*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m* \\
& **2*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m* \\
& n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 4*B*b*d^{**2}*m^{**3}*x*x^{**4} \\
& *n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} \\
& 3 + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m* \\
& n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) \\
& + 11*B*b*d^{**2}*m^{**2}*n^{**2}*x*x^{**4}*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35 \\
& *m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n \\
& + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + \\
& 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 18*B*b*d^{**2}*m^{**2}*n*x*x^{**4}*n)*(e*x)^{**m}/(m* \\
& *5 + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} \\
& + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} \\
& 2 + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 6*B*b*d^{**2}*m^{**} \\
& 2*x*x^{**4}*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n \\
& + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} \\
& + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 1 \\
& 0*n + 1) + 6*B*b*d^{**2}*m*n^{**3}*x*x^{**4}*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} \\
& + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m \\
& **2*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n \\
& **4 + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 22*B*b*d^{**2}*m*n^{**2}*x*x^{**4}*n)*(e*x)^{**} \\
& m/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2} \\
& *n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105* \\
& m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 18*B*b*d* \\
& **2*m*n*x*x^{**4}*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m \\
& **3*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m \\
& *n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**} \\
& 2 + 10*n + 1) + 4*B*b*d^{**2}*m*x*x^{**4}*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} \\
& + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m \\
& **2*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n \\
& **4 + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 6*B*b*d^{**2}*n^{**3}*x*x^{**4}*n)*(e*x)^{**m}/(\\
& m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n* \\
& **3 + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n \\
& **2 + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 11*B*b*d^{**2}* \\
& n^{**2}*x*x^{**4}*n)*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**} \\
& 3*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n \\
& **4 + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2}
\end{aligned}$$

```

+ 10*n + 1) + 6*B*b*d**2*n*x*x**(4*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 +
  35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**
2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**
4 + 50*n**3 + 35*n**2 + 10*n + 1) + B*b*d**2*x*x**(4*n)*(e*x)**m/(m**5 + 10
*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*
m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*
m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1), True))

```

Maxima [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 332 vs. $2(160) = 320$.

Time = 0.24 (sec) , antiderivative size = 332, normalized size of antiderivative = 2.08

$$\begin{aligned}
 & \int (ex)^m (a + bx^n) (A + Bx^n) (c + dx^n)^2 dx \\
 &= \frac{Bbd^2 e^m x e^{(m \log(x) + 4n \log(x))}}{m + 4n + 1} + \frac{2Bbcde^m x e^{(m \log(x) + 3n \log(x))}}{m + 3n + 1} + \frac{Bad^2 e^m x e^{(m \log(x) + 3n \log(x))}}{m + 3n + 1} \\
 &+ \frac{Abd^2 e^m x e^{(m \log(x) + 3n \log(x))}}{m + 3n + 1} + \frac{Bbc^2 e^m x e^{(m \log(x) + 2n \log(x))}}{m + 2n + 1} + \frac{2Bacde^m x e^{(m \log(x) + 2n \log(x))}}{m + 2n + 1} \\
 &+ \frac{2Abcde^m x e^{(m \log(x) + 2n \log(x))}}{m + 2n + 1} + \frac{Aad^2 e^m x e^{(m \log(x) + 2n \log(x))}}{m + 2n + 1} + \frac{Bac^2 e^m x e^{(m \log(x) + n \log(x))}}{m + n + 1} \\
 &+ \frac{Abc^2 e^m x e^{(m \log(x) + n \log(x))}}{m + n + 1} + \frac{2Aacde^m x e^{(m \log(x) + n \log(x))}}{m + n + 1} + \frac{(ex)^{m+1} Aac^2}{e(m+1)}
 \end{aligned}$$

```
[In] integrate((e*x)^m*(a+b*x^n)*(A+B*x^n)*(c+d*x^n)^2,x, algorithm="maxima")
```

```
[Out] B*b*d^2*e^m*x*e^(m*log(x) + 4*n*log(x))/(m + 4*n + 1) + 2*B*b*c*d*e^m*x*e^(
m*log(x) + 3*n*log(x))/(m + 3*n + 1) + B*a*d^2*e^m*x*e^(m*log(x) + 3*n*log(
x))/(m + 3*n + 1) + A*b*d^2*e^m*x*e^(m*log(x) + 3*n*log(x))/(m + 3*n + 1) +
B*b*c^2*e^m*x*e^(m*log(x) + 2*n*log(x))/(m + 2*n + 1) + 2*B*a*c*d*e^m*x*e^
(m*log(x) + 2*n*log(x))/(m + 2*n + 1) + 2*A*b*c*d*e^m*x*e^(m*log(x) + 2*n*l
og(x))/(m + 2*n + 1) + A*a*d^2*e^m*x*e^(m*log(x) + 2*n*log(x))/(m + 2*n + 1
) + B*a*c^2*e^m*x*e^(m*log(x) + n*log(x))/(m + n + 1) + A*b*c^2*e^m*x*e^(m*
log(x) + n*log(x))/(m + n + 1) + 2*A*a*c*d*e^m*x*e^(m*log(x) + n*log(x))/(m
+ n + 1) + (e*x)^(m + 1)*A*a*c^2/(e*(m + 1))
```

Giac [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 11834 vs. 2(160) = 320.

Time = 0.39 (sec) , antiderivative size = 11834, normalized size of antiderivative = 73.96

$$\int (ex)^m (a + bx^n) (A + Bx^n) (c + dx^n)^2 dx = \text{Too large to display}$$

[In] integrate((e*x)^m*(a+b*x^n)*(A+B*x^n)*(c+d*x^n)^2,x, algorithm="giac")

[Out] (B*b*d^2*m^4*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 6*B*b*d^2*m^3*n*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 11*B*b*d^2*m^2*n^2*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 6*B*b*d^2*m*n^3*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 2*B*b*c*d*m^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + B*a*d^2*m^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + A*b*d^2*m^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + B*b*d^2*m^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 14*B*b*c*d*m^3*n*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 7*B*a*d^2*m^3*n*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 7*A*b*d^2*m^3*n*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 6*B*b*d^2*m^3*n*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 28*B*b*c*d*m^2*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 14*B*a*d^2*m^2*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 14*A*b*d^2*m^2*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 11*B*b*d^2*m^2*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 16*B*b*c*d*m*n^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 8*B*a*d^2*m*n^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 8*A*b*d^2*m*n^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 6*B*b*d^2*m*n^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + B*b*c^2*m^4*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 2*B*a*c*d*m^4*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 2*A*b*c*d*m^4*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 2*B*b*c*d*m^4*x*x^(2*n)*e^(m*log(e) + m*log(x)) + A*a*d^2*m^4*x*x^(2*n)*e^(m*log(e) + m*log(x)) + B*a*d^2*m^4*x*x^(2*n)*e^(m*log(e) + m*log(x)) + A*b*d^2*m^4*x*x^(2*n)*e^(m*log(e) + m*log(x)) + B*b*d^2*m^4*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 8*B*b*c^2*m^3*n*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 16*B*a*c*d*m^3*n*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 16*A*b*c*d*m^3*n*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 14*B*b*c*d*m^3*n*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 8*A*a*d^2*m^3*n*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 7*B*a*d^2*m^3*n*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 7*A*b*d^2*m^3*n*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 6*B*b*d^2*m^3*n*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 19*B*b*c^2*m^2*n^2*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 38*B*a*c*d*m^2*n^2*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 38*A*b*c*d*m^2*n^2*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 28*B*b*c*d*m^2*n^2*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 19*A*a*d^2*m^2*n^2*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 14*B*a*d^2*m^2*n^2*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 14*A*b*d^2*m^2*n^2*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 11*B*b*d^2*m^2*n^2*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 12*B*b*c^2*m*n^3*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 24*B*a*c*d*m*n^3*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 24*A*b*c*d*m*n^3*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 16*B*b*c*d*m*n^3*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 12*A*a*d^2*m*n^3*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 8*B*a*d^2*m*n^3*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 8*A*b*d^2*m*n^3*x*x

$$\begin{aligned}
& ^{(2*n)}e^{(m*\log(e) + m*\log(x))} + 6*B*b*d^2*m^n^3*x*x^{(2*n)}e^{(m*\log(e) + m* \\
& \log(x))} + B*a*c^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + A*b*c^2*m^4*x*x^n*e^{(\\
& m*\log(e) + m*\log(x))} + B*b*c^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2*A*a*c* \\
& d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2*B*a*c*d*m^4*x*x^n*e^{(m*\log(e) + m* \\
& \log(x))} + 2*A*b*c*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2*B*b*c*d*m^4*x*x^n* \\
& e^{(m*\log(e) + m*\log(x))} + A*a*d^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + B*a*d \\
& ^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + A*b*d^2*m^4*x*x^n*e^{(m*\log(e) + m* \\
& \log(x))} + B*b*d^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 9*B*a*c^2*m^3*n*x*x^n*e \\
& ^{(m*\log(e) + m*\log(x))} + 9*A*b*c^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 8* \\
& B*b*c^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 18*A*a*c*d*m^3*n*x*x^n*e^{(m* \\
& \log(e) + m*\log(x))} + 16*B*a*c*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 16*A*b \\
& *c*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 14*B*b*c*d*m^3*n*x*x^n*e^{(m*\log(\\
& e) + m*\log(x))} + 8*A*a*d^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 7*B*a*d^2* \\
& m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 7*A*b*d^2*m^3*n*x*x^n*e^{(m*\log(e) + m \\
& *log(x))} + 6*B*b*d^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 26*B*a*c^2*m^2*n \\
& ^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 26*A*b*c^2*m^2*n^2*x*x^n*e^{(m*\log(e) + m \\
& *log(x))} + 19*B*b*c^2*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 52*A*a*c*d*m^2 \\
& *n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 38*B*a*c*d*m^2*n^2*x*x^n*e^{(m*\log(e) \\
& + m*\log(x))} + 38*A*b*c*d*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 28*B*b*c*d \\
& *m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 19*A*a*d^2*m^2*n^2*x*x^n*e^{(m*\log(\\
& e) + m*\log(x))} + 14*B*a*d^2*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 14*A*b \\
& d^2*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 11*B*b*d^2*m^2*n^2*x*x^n*e^{(m* \\
& \log(e) + m*\log(x))} + 24*B*a*c^2*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 24*A*b \\
& *c^2*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 12*B*b*c^2*m^n^3*x*x^n*e^{(m*\log(\\
& e) + m*\log(x))} + 48*A*a*c*d*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 24*B*a*c* \\
& d*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 24*A*b*c*d*m^n^3*x*x^n*e^{(m*\log(e) \\
& + m*\log(x))} + 16*B*b*c*d*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 12*A*a*d^2*m \\
& *n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 8*B*a*d^2*m^n^3*x*x^n*e^{(m*\log(e) + m* \\
& \log(x))} + 8*A*b*d^2*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 6*B*b*d^2*m^n^3*x \\
& *x^n*e^{(m*\log(e) + m*\log(x))} + A*a*c^2*m^4*x*e^{(m*\log(e) + m*\log(x))} + B*a* \\
& c^2*m^4*x*e^{(m*\log(e) + m*\log(x))} + A*b*c^2*m^4*x*e^{(m*\log(e) + m*\log(x))} + \\
& B*b*c^2*m^4*x*e^{(m*\log(e) + m*\log(x))} + 2*A*a*c*d*m^4*x*e^{(m*\log(e) + m* \\
& \log(x))} + 2*B*a*c*d*m^4*x*e^{(m*\log(e) + m*\log(x))} + 2*A*b*c*d*m^4*x*e^{(m*\log(\\
& e) + m*\log(x))} + 2*B*b*c*d*m^4*x*e^{(m*\log(e) + m*\log(x))} + A*a*d^2*m^4*x*e \\
& ^{(m*\log(e) + m*\log(x))} + B*a*d^2*m^4*x*e^{(m*\log(e) + m*\log(x))} + A*b*d^2*m^4 \\
& *x*e^{(m*\log(e) + m*\log(x))} + B*b*d^2*m^4*x*e^{(m*\log(e) + m*\log(x))} + 10*A*a \\
& *c^2*m^3*n*x*e^{(m*\log(e) + m*\log(x))} + 9*B*a*c^2*m^3*n*x*e^{(m*\log(e) + m* \\
& \log(x))} + 9*A*b*c^2*m^3*n*x*e^{(m*\log(e) + m*\log(x))} + 8*B*b*c^2*m^3*n*x*e^{(m* \\
& \log(e) + m*\log(x))} + 18*A*a*c*d*m^3*n*x*e^{(m*\log(e) + m*\log(x))} + 16*B*a*c* \\
& d*m^3*n*x*e^{(m*\log(e) + m*\log(x))} + 16*A*b*c*d*m^3*n*x*e^{(m*\log(e) + m*\log(\\
& x))} + 14*B*b*c*d*m^3*n*x*e^{(m*\log(e) + m*\log(x))} + 8*A*a*d^2*m^3*n*x*e^{(m* \\
& \log(e) + m*\log(x))} + 7*B*a*d^2*m^3*n*x*e^{(m*\log(e) + m*\log(x))} + 7*A*b*d^2*m \\
& ^3*n*x*e^{(m*\log(e) + m*\log(x))} + 6*B*b*d^2*m^3*n*x*e^{(m*\log(e) + m*\log(x))} \\
& + 35*A*a*c^2*m^2*n^2*x*e^{(m*\log(e) + m*\log(x))} + 26*B*a*c^2*m^2*n^2*x*e^{(m* \\
& \log(e) + m*\log(x))} + 26*A*b*c^2*m^2*n^2*x*e^{(m*\log(e) + m*\log(x))} + 19*B*b*
\end{aligned}$$

$$\begin{aligned}
& c^2 m^2 n^2 x e^{(m \log(e) + m \log(x))} + 52 A a c d m^2 n^2 x e^{(m \log(e) + m \log(x))} + 38 B a c d m^2 n^2 x e^{(m \log(e) + m \log(x))} + 38 A b c d m^2 n^2 x e^{(m \log(e) + m \log(x))} \\
& + 28 B b c d m^2 n^2 x e^{(m \log(e) + m \log(x))} + 19 A a d^2 m^2 n^2 x e^{(m \log(e) + m \log(x))} + 14 B a d^2 m^2 n^2 x e^{(m \log(e) + m \log(x))} \\
& + 14 A b d^2 m^2 n^2 x e^{(m \log(e) + m \log(x))} + 11 B b d^2 m^2 n^2 x e^{(m \log(e) + m \log(x))} + 50 A a c^2 m n^3 x e^{(m \log(e) + m \log(x))} \\
& + 24 B a c^2 m n^3 x e^{(m \log(e) + m \log(x))} + 24 A b c^2 m n^3 x e^{(m \log(e) + m \log(x))} + 12 B b c^2 m n^3 x e^{(m \log(e) + m \log(x))} \\
& + 48 A a c d m n^3 x e^{(m \log(e) + m \log(x))} + 24 B a c d m n^3 x e^{(m \log(e) + m \log(x))} + 24 A b c d m n^3 x e^{(m \log(e) + m \log(x))} \\
& + 16 B b c d m n^3 x e^{(m \log(e) + m \log(x))} + 12 A a d^2 m n^3 x e^{(m \log(e) + m \log(x))} + 8 B a d^2 m n^3 x e^{(m \log(e) + m \log(x))} \\
& + 8 A b d^2 m n^3 x e^{(m \log(e) + m \log(x))} + 6 B b d^2 m n^3 x e^{(m \log(e) + m \log(x))} + 24 A a c^2 n^4 x e^{(m \log(e) + m \log(x))} \\
& + 4 B b d^2 m^3 x x^{(4n)} e^{(m \log(e) + m \log(x))} + 18 B b d^2 m^2 n x x^{(4n)} e^{(m \log(e) + m \log(x))} + 22 B b d^2 m n^2 x x^{(4n)} e^{(m \log(e) + m \log(x))} \\
& + 6 B b d^2 n^3 x x^{(4n)} e^{(m \log(e) + m \log(x))} + 8 B b c d m^3 x x^{(3n)} e^{(m \log(e) + m \log(x))} + 4 B a d^2 m^3 x x^{(3n)} e^{(m \log(e) + m \log(x))} \\
& + 4 A b d^2 m^3 x x^{(3n)} e^{(m \log(e) + m \log(x))} + 4 B b d^2 m^3 x x^{(3n)} e^{(m \log(e) + m \log(x))} + 42 B b c d m^2 n x x^{(3n)} e^{(m \log(e) + m \log(x))} \\
& + 21 B a d^2 m^2 n x x^{(3n)} e^{(m \log(e) + m \log(x))} + 21 A b d^2 m^2 n x x^{(3n)} e^{(m \log(e) + m \log(x))} + 18 B b d^2 m^2 n x x^{(3n)} e^{(m \log(e) + m \log(x))} \\
& + 56 B b c d m n^2 x x^{(3n)} e^{(m \log(e) + m \log(x))} + 28 B a d^2 m n^2 x x^{(3n)} e^{(m \log(e) + m \log(x))} + 28 A b d^2 m n^2 x x^{(3n)} e^{(m \log(e) + m \log(x))} \\
& + 22 B b d^2 m n^2 x x^{(3n)} e^{(m \log(e) + m \log(x))} + 16 B b c d n^3 x x^{(3n)} e^{(m \log(e) + m \log(x))} + 8 B a d^2 n^3 x x^{(3n)} e^{(m \log(e) + m \log(x))} \\
& + 8 A b d^2 n^3 x x^{(3n)} e^{(m \log(e) + m \log(x))} + 6 B b d^2 n^3 x x^{(3n)} e^{(m \log(e) + m \log(x))} + 4 B b c^2 m^3 x x^{(2n)} e^{(m \log(e) + m \log(x))} \\
& + 8 B a c d m^3 x x^{(2n)} e^{(m \log(e) + m \log(x))} + 8 A b c d m^3 x x^{(2n)} e^{(m \log(e) + m \log(x))} + 8 B b c d m^3 x x^{(2n)} e^{(m \log(e) + m \log(x))} \\
& + 4 A a d^2 m^3 x x^{(2n)} e^{(m \log(e) + m \log(x))} + 4 B a d^2 m^3 x x^{(2n)} e^{(m \log(e) + m \log(x))} + 4 A b d^2 m^3 x x^{(2n)} e^{(m \log(e) + m \log(x))} \\
& + 4 B b d^2 m^3 x x^{(2n)} e^{(m \log(e) + m \log(x))} + 24 B b c^2 m^2 n x x^{(2n)} e^{(m \log(e) + m \log(x))} + 48 B a c d m^2 n x x^{(2n)} e^{(m \log(e) + m \log(x))} \\
& + 48 A b c d m^2 n x x^{(2n)} e^{(m \log(e) + m \log(x))} + 42 B b c d m^2 n x x^{(2n)} e^{(m \log(e) + m \log(x))} + m \log(x) + 24 A a d^2 m^2 n x x^{(2n)} e^{(m \log(e) + m \log(x))} \\
& + 21 B a d^2 m^2 n x x^{(2n)} e^{(m \log(e) + m \log(x))} + 21 A b d^2 m^2 n x x^{(2n)} e^{(m \log(e) + m \log(x))} + 18 B b d^2 m^2 n x x^{(2n)} e^{(m \log(e) + m \log(x))} \\
& + 38 B b c^2 m n^2 x x^{(2n)} e^{(m \log(e) + m \log(x))} + 76 B a c d m n^2 x x^{(2n)} e^{(m \log(e) + m \log(x))} + 76 A b c d m n^2 x x^{(2n)} e^{(m \log(e) + m \log(x))} \\
& + 56 B b c d m n^2 x x^{(2n)} e^{(m \log(e) + m \log(x))} + 38 A a d^2 m n^2 x x^{(2n)} e^{(m \log(e) + m \log(x))} + 28 B a d^2 m n^2 x x^{(2n)} e^{(m \log(e) + m \log(x))} \\
& + 22 B b d^2 m n^2 x x^{(2n)} e^{(m \log(e) + m \log(x))} + 12 B b c^2 n^3 x x^{(2n)} e^{(m \log(e) + m \log(x))} + 24 B a c d n^3 x x^{(2n)} e^{(m \log(e) + m \log(x))}
\end{aligned}$$

$$\begin{aligned}
& + 24*A*b*c*d*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 16*B*b*c*d*n^3*x*x^{(2* \\
& n)}*e^{(m*\log(e) + m*\log(x))} + 12*A*a*d^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x) \\
&)} + 8*B*a*d^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 8*A*b*d^2*n^3*x*x^{(2 \\
& *n)}*e^{(m*\log(e) + m*\log(x))} + 6*B*b*d^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x) \\
&)} + 4*B*a*c^2*m^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 4*A*b*c^2*m^3*x*x^n*e^{(m \\
& *log(e) + m*log(x))} + 4*B*b*c^2*m^3*x*x^n*e^{(m*log(e) + m*log(x))} + 8*A*a*c \\
& *d*m^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 8*B*a*c*d*m^3*x*x^n*e^{(m*\log(e) + m* \\
& log(x))} + 8*A*b*c*d*m^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 8*B*b*c*d*m^3*x*x^n \\
& *e^{(m*\log(e) + m*\log(x))} + 4*A*a*d^2*m^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 4* \\
& B*a*d^2*m^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 4*A*b*d^2*m^3*x*x^n*e^{(m*\log(e) \\
& + m*\log(x))} + 4*B*b*d^2*m^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 27*B*a*c^2*m^2 \\
& *n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 27*A*b*c^2*m^2*n*x*x^n*e^{(m*\log(e) + m*1 \\
& og(x))} + 24*B*b*c^2*m^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 54*A*a*c*d*m^2*n* \\
& x*x^n*e^{(m*\log(e) + m*\log(x))} + 48*B*a*c*d*m^2*n*x*x^n*e^{(m*\log(e) + m*\log(\\
& x))} + 48*A*b*c*d*m^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 42*B*b*c*d*m^2*n*x*x \\
& ^n*e^{(m*\log(e) + m*\log(x))} + 24*A*a*d^2*m^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 21*B*a*d^2*m^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 21*A*b*d^2*m^2*n*x*x^n* \\
& e^{(m*\log(e) + m*\log(x))} + 18*B*b*d^2*m^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + \\
& 52*B*a*c^2*m^n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 52*A*b*c^2*m^n^2*x*x^n*e^{(\\
& m*\log(e) + m*\log(x))} + 38*B*b*c^2*m^n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 104 \\
& *A*a*c*d*m^n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 76*B*a*c*d*m^n^2*x*x^n*e^{(m* \\
& log(e) + m*log(x))} + 76*A*b*c*d*m^n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 56*B* \\
& b*c*d*m^n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 38*A*a*d^2*m^n^2*x*x^n*e^{(m*log \\
& (e) + m*log(x))} + 28*B*a*d^2*m^n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 28*A*b*d \\
& ^2*m^n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 22*B*b*d^2*m^n^2*x*x^n*e^{(m*\log(e) \\
& + m*\log(x))} + 24*B*a*c^2*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 24*A*b*c^2*n^ \\
& 3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 12*B*b*c^2*n^3*x*x^n*e^{(m*\log(e) + m*\log(\\
& x))} + 48*A*a*c*d*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 24*B*a*c*d*n^3*x*x^n*e \\
& ^{(m*\log(e) + m*\log(x))} + 24*A*b*c*d*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 16* \\
& B*b*c*d*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 12*A*a*d^2*n^3*x*x^n*e^{(m*\log(e) \\
&) + m*\log(x))} + 8*B*a*d^2*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 8*A*b*d^2*n^3 \\
& *x*x^n*e^{(m*\log(e) + m*\log(x))} + 6*B*b*d^2*n^3*x*x^n*e^{(m*\log(e) + m*\log(x) \\
&)} + 4*A*a*c^2*m^3*x*e^{(m*\log(e) + m*\log(x))} + 4*B*a*c^2*m^3*x*e^{(m*\log(e) + \\
& m*\log(x))} + 4*A*b*c^2*m^3*x*e^{(m*\log(e) + m*\log(x))} + 4*B*b*c^2*m^3*x*e^{(m \\
& *log(e) + m*log(x))} + 8*A*a*c*d*m^3*x*e^{(m*\log(e) + m*\log(x))} + 8*B*a*c*d*m \\
& ^3*x*e^{(m*\log(e) + m*\log(x))} + 8*A*b*c*d*m^3*x*e^{(m*\log(e) + m*\log(x))} + 8* \\
& B*b*c*d*m^3*x*e^{(m*\log(e) + m*\log(x))} + 4*A*a*d^2*m^3*x*e^{(m*\log(e) + m*log \\
& (x))} + 4*B*a*d^2*m^3*x*e^{(m*\log(e) + m*\log(x))} + 4*A*b*d^2*m^3*x*e^{(m*\log(e) \\
&) + m*\log(x))} + 4*B*b*d^2*m^3*x*e^{(m*\log(e) + m*\log(x))} + 30*A*a*c^2*m^2*n* \\
& x*e^{(m*\log(e) + m*\log(x))} + 27*B*a*c^2*m^2*n*x*e^{(m*\log(e) + m*\log(x))} + 27 \\
& *A*b*c^2*m^2*n*x*e^{(m*\log(e) + m*\log(x))} + 24*B*b*c^2*m^2*n*x*e^{(m*\log(e) + \\
& m*\log(x))} + 54*A*a*c*d*m^2*n*x*e^{(m*\log(e) + m*\log(x))} + 48*B*a*c*d*m^2*n* \\
& x*e^{(m*\log(e) + m*\log(x))} + 48*A*b*c*d*m^2*n*x*e^{(m*\log(e) + m*\log(x))} + 42 \\
& *B*b*c*d*m^2*n*x*e^{(m*\log(e) + m*\log(x))} + 24*A*a*d^2*m^2*n*x*e^{(m*\log(e) + \\
& m*\log(x))} + 21*B*a*d^2*m^2*n*x*e^{(m*\log(e) + m*\log(x))} + 21*A*b*d^2*m^2*n*
\end{aligned}$$

$$\begin{aligned}
& x^m e^{m \log(e) + m \log(x)} + 18 B^2 b^2 d^2 m^2 n^2 x^m e^{m \log(e) + m \log(x)} + 70 \\
& A^2 a^2 c^2 m^2 n^2 x^m e^{m \log(e) + m \log(x)} + 52 B^2 a^2 c^2 m^2 n^2 x^m e^{m \log(e) + m \log(x)} + \\
& m \log(x) + 52 A^2 b^2 c^2 m^2 n^2 x^m e^{m \log(e) + m \log(x)} + 38 B^2 b^2 c^2 m^2 n^2 x^m e^{m \log(e) + m \log(x)} + \\
& 104 A^2 a^2 c^2 d m^2 n^2 x^m e^{m \log(e) + m \log(x)} + 76 B^2 a^2 c^2 d m^2 n^2 x^m e^{m \log(e) + m \log(x)} + \\
& 76 A^2 b^2 c^2 d m^2 n^2 x^m e^{m \log(e) + m \log(x)} + 56 B^2 b^2 c^2 d m^2 n^2 x^m e^{m \log(e) + m \log(x)} + \\
& 38 A^2 a^2 d^2 m^2 n^2 x^m e^{m \log(e) + m \log(x)} + 28 B^2 a^2 d^2 m^2 n^2 x^m e^{m \log(e) + m \log(x)} + 2 \\
& 8 A^2 b^2 d^2 m^2 n^2 x^m e^{m \log(e) + m \log(x)} + 22 B^2 b^2 d^2 m^2 n^2 x^m e^{m \log(e) + m \log(x)} + \\
& m \log(x) + 50 A^2 a^2 c^2 n^3 x^m e^{m \log(e) + m \log(x)} + 24 B^2 a^2 c^2 n^3 x^m e^{m \log(e) + m \log(x)} + \\
& 24 A^2 b^2 c^2 n^3 x^m e^{m \log(e) + m \log(x)} + 12 B^2 b^2 c^2 n^3 x^m e^{m \log(e) + m \log(x)} + \\
& 48 A^2 a^2 c^2 d n^3 x^m e^{m \log(e) + m \log(x)} + 24 B^2 a^2 c^2 d n^3 x^m e^{m \log(e) + m \log(x)} + \\
& 24 A^2 b^2 c^2 d n^3 x^m e^{m \log(e) + m \log(x)} + 16 B^2 b^2 c^2 d n^3 x^m e^{m \log(e) + m \log(x)} + \\
& 12 A^2 a^2 d^2 n^3 x^m e^{m \log(e) + m \log(x)} + 8 B^2 a^2 d^2 n^3 x^m e^{m \log(e) + m \log(x)} + 8 A^2 b^2 d^2 n^3 x^m e^{m \log(e) + m \log(x)} + \\
& 6 B^2 b^2 d^2 n^3 x^m e^{m \log(e) + m \log(x)} + 6 B^2 b^2 d^2 m^2 n^2 x^4 e^{m \log(e) + m \log(x)} + 18 B^2 b^2 d^2 m^2 n^2 x^4 e^{m \log(e) + m \log(x)} + \\
& 11 B^2 b^2 d^2 m^2 n^2 x^4 e^{m \log(e) + m \log(x)} + 12 B^2 b^2 c^2 d m^2 n^2 x^3 e^{m \log(e) + m \log(x)} + 6 B^2 a^2 d^2 m^2 n^2 x^3 e^{m \log(e) + m \log(x)} + \\
& 6 A^2 b^2 d^2 m^2 n^2 x^3 e^{m \log(e) + m \log(x)} + 6 B^2 b^2 d^2 m^2 n^2 x^3 e^{m \log(e) + m \log(x)} + 42 B^2 b^2 c^2 d m^2 n^2 x^3 e^{m \log(e) + m \log(x)} + \\
& 21 B^2 a^2 d^2 m^2 n^2 x^3 e^{m \log(e) + m \log(x)} + 21 A^2 b^2 d^2 m^2 n^2 x^3 e^{m \log(e) + m \log(x)} + 18 B^2 b^2 d^2 m^2 n^2 x^3 e^{m \log(e) + m \log(x)} + \\
& 28 B^2 b^2 c^2 d m^2 n^2 x^3 e^{m \log(e) + m \log(x)} + 14 B^2 a^2 d^2 m^2 n^2 x^3 e^{m \log(e) + m \log(x)} + 14 A^2 b^2 d^2 m^2 n^2 x^3 e^{m \log(e) + m \log(x)} + \\
& 11 B^2 b^2 d^2 m^2 n^2 x^3 e^{m \log(e) + m \log(x)} + 6 B^2 b^2 c^2 m^2 n^2 x^2 e^{m \log(e) + m \log(x)} + 12 B^2 a^2 c^2 d m^2 n^2 x^2 e^{m \log(e) + m \log(x)} + \\
& 12 A^2 b^2 c^2 d m^2 n^2 x^2 e^{m \log(e) + m \log(x)} + 12 B^2 b^2 c^2 d m^2 n^2 x^2 e^{m \log(e) + m \log(x)} + 6 A^2 a^2 d^2 m^2 n^2 x^2 e^{m \log(e) + m \log(x)} + \\
& 6 B^2 a^2 d^2 m^2 n^2 x^2 e^{m \log(e) + m \log(x)} + 6 A^2 b^2 d^2 m^2 n^2 x^2 e^{m \log(e) + m \log(x)} + 6 B^2 b^2 d^2 m^2 n^2 x^2 e^{m \log(e) + m \log(x)} + \\
& 24 B^2 b^2 c^2 m^2 n^2 x^2 e^{m \log(e) + m \log(x)} + 48 B^2 a^2 c^2 d m^2 n^2 x^2 e^{m \log(e) + m \log(x)} + 48 A^2 b^2 c^2 d m^2 n^2 x^2 e^{m \log(e) + m \log(x)} + \\
& 42 B^2 b^2 c^2 d m^2 n^2 x^2 e^{m \log(e) + m \log(x)} + 24 A^2 a^2 d^2 m^2 n^2 x^2 e^{m \log(e) + m \log(x)} + 21 B^2 a^2 d^2 m^2 n^2 x^2 e^{m \log(e) + m \log(x)} + \\
& 21 A^2 b^2 d^2 m^2 n^2 x^2 e^{m \log(e) + m \log(x)} + 18 B^2 b^2 d^2 m^2 n^2 x^2 e^{m \log(e) + m \log(x)} + 19 B^2 b^2 c^2 n^2 m^2 x^2 e^{m \log(e) + m \log(x)} + \\
& 38 B^2 a^2 c^2 d n^2 m^2 x^2 e^{m \log(e) + m \log(x)} + 38 A^2 b^2 c^2 d n^2 m^2 x^2 e^{m \log(e) + m \log(x)} + 28 B^2 b^2 c^2 d n^2 m^2 x^2 e^{m \log(e) + m \log(x)} + \\
& 19 A^2 a^2 d^2 n^2 m^2 x^2 e^{m \log(e) + m \log(x)} + 14 B^2 a^2 d^2 n^2 m^2 x^2 e^{m \log(e) + m \log(x)} + 14 A^2 b^2 d^2 n^2 m^2 x^2 e^{m \log(e) + m \log(x)} + \\
& 11 B^2 b^2 d^2 n^2 m^2 x^2 e^{m \log(e) + m \log(x)} + 6 B^2 a^2 c^2 m^2 n^2 x^2 e^{m \log(e) + m \log(x)} + 6 A^2 b^2 c^2 m^2 n^2 x^2 e^{m \log(e) + m \log(x)} + 6 B^2 b^2 c^2 m^2 n^2 x^2 e^{m \log(e) + m \log(x)} + \\
& 12 A^2 a^2 c^2 d m^2 n^2 x^2 e^{m \log(e) + m \log(x)} + 12 B^2 a^2 c^2 d m^2 n^2 x^2 e^{m \log(e) + m \log(x)} + 12 A^2 b^2 c^2 d m^2 n^2 x^2 e^{m \log(e) + m \log(x)} + 12 B^2 a^2 c^2 d m^2 n^2 x^2 e^{m \log(e) + m \log(x)} + m
\end{aligned}$$

$(e) + m \log(x)) + 8A^*b^*c^*d^*m^*x^*x^{(2n)}e^{(m \log(e) + m \log(x))} + 8B^*b^*c^*d^*m^*x^*x^{(2n)}e^{(m \log(e) + m \log(x))} + 4A^*a^*d^{2m^*x^*x^{(2n)}e^{(m \log(e) + m \log(x))} + 4B^*a^*d^{2m^*x^*x^{(2n)}e^{(m \log(e) + m \log(x))} + 4A^*b^*d^{2m^*x^*x^{(2n)}e^{(m \log(e) + m \log(x))} + 4B^*b^*d^{2m^*x^*x^{(2n)}e^{(m \log(e) + m \log(x))} + 8B^*b^*c^{2n^*x^*x^{(2n)}e^{(m \log(e) + m \log(x))} + 16B^*a^*c^*d^*n^*x^*x^{(2n)}e^{(m \log(e) + m \log(x))} + 16A^*b^*c^*d^*n^*x^*x^{(2n)}e^{(m \log(e) + m \log(x))} + 14B^*b^*c^*d^*n^*x^*x^{(2n)}e^{(m \log(e) + m \log(x))} + 8A^*a^*d^{2n^*x^*x^{(2n)}e^{(m \log(e) + m \log(x))} + 7B^*a^*d^{2n^*x^*x^{(2n)}e^{(m \log(e) + m \log(x))} + 7A^*b^*d^{2n^*x^*x^{(2n)}e^{(m \log(e) + m \log(x))} + 6B^*b^*d^{2n^*x^*x^{(2n)}e^{(m \log(e) + m \log(x))} + 4B^*a^*c^{2m^*x^*x^n}e^{(m \log(e) + m \log(x))} + 4A^*b^*c^{2m^*x^*x^n}e^{(m \log(e) + m \log(x))} + 4B^*b^*c^{2m^*x^*x^n}e^{(m \log(e) + m \log(x))} + 8A^*a^*c^*d^*m^*x^*x^n}e^{(m \log(e) + m \log(x))} + 8B^*a^*c^*d^*m^*x^*x^n}e^{(m \log(e) + m \log(x))} + 8A^*b^*c^*d^*m^*x^*x^n}e^{(m \log(e) + m \log(x))} + 8B^*b^*c^*d^*m^*x^*x^n}e^{(m \log(e) + m \log(x))} + 4A^*a^*d^{2m^*x^*x^n}e^{(m \log(e) + m \log(x))} + 4B^*a^*d^{2m^*x^*x^n}e^{(m \log(e) + m \log(x))} + 4A^*b^*d^{2m^*x^*x^n}e^{(m \log(e) + m \log(x))} + 4B^*b^*d^{2m^*x^*x^n}e^{(m \log(e) + m \log(x))} + 9B^*a^*c^{2n^*x^*x^n}e^{(m \log(e) + m \log(x))} + 9A^*b^*c^{2n^*x^*x^n}e^{(m \log(e) + m \log(x))} + 8B^*b^*c^{2n^*x^*x^n}e^{(m \log(e) + m \log(x))} + 18A^*a^*c^*d^*n^*x^*x^n}e^{(m \log(e) + m \log(x))} + 16B^*a^*c^*d^*n^*x^*x^n}e^{(m \log(e) + m \log(x))} + 16A^*b^*c^*d^*n^*x^*x^n}e^{(m \log(e) + m \log(x))} + 14B^*b^*c^*d^*n^*x^*x^n}e^{(m \log(e) + m \log(x))} + 8A^*a^*d^{2n^*x^*x^n}e^{(m \log(e) + m \log(x))} + 7B^*a^*d^{2n^*x^*x^n}e^{(m \log(e) + m \log(x))} + 7A^*b^*d^{2n^*x^*x^n}e^{(m \log(e) + m \log(x))} + 6B^*b^*d^{2n^*x^*x^n}e^{(m \log(e) + m \log(x))} + m \log(x)) + 4A^*a^*c^{2m^*x^*e^{(m \log(e) + m \log(x))} + 4B^*a^*c^{2m^*x^*e^{(m \log(e) + m \log(x))} + 4A^*b^*c^{2m^*x^*e^{(m \log(e) + m \log(x))} + 4B^*b^*c^{2m^*x^*e^{(m \log(e) + m \log(x))} + 8A^*a^*c^*d^*m^*x^*e^{(m \log(e) + m \log(x))} + 8B^*a^*c^*d^*m^*x^*e^{(m \log(e) + m \log(x))} + 8A^*b^*c^*d^*m^*x^*e^{(m \log(e) + m \log(x))} + 8B^*b^*c^*d^*m^*x^*e^{(m \log(e) + m \log(x))} + 4A^*a^*d^{2m^*x^*e^{(m \log(e) + m \log(x))} + 4B^*a^*d^{2m^*x^*e^{(m \log(e) + m \log(x))} + 4A^*b^*d^{2m^*x^*e^{(m \log(e) + m \log(x))} + 4B^*b^*d^{2m^*x^*e^{(m \log(e) + m \log(x))} + 10A^*a^*c^{2n^*x^*e^{(m \log(e) + m \log(x))} + 9B^*a^*c^{2n^*x^*e^{(m \log(e) + m \log(x))} + 9A^*b^*c^{2n^*x^*e^{(m \log(e) + m \log(x))} + m \log(x))} + 8B^*b^*c^{2n^*x^*e^{(m \log(e) + m \log(x))} + 18A^*a^*c^*d^*n^*x^*e^{(m \log(e) + m \log(x))} + 16B^*a^*c^*d^*n^*x^*e^{(m \log(e) + m \log(x))} + 16A^*b^*c^*d^*n^*x^*e^{(m \log(e) + m \log(x))} + 14B^*b^*c^*d^*n^*x^*e^{(m \log(e) + m \log(x))} + 8A^*a^*d^{2n^*x^*e^{(m \log(e) + m \log(x))} + 7B^*a^*d^{2n^*x^*e^{(m \log(e) + m \log(x))} + 7A^*b^*d^{2n^*x^*e^{(m \log(e) + m \log(x))} + 6B^*b^*d^{2n^*x^*e^{(m \log(e) + m \log(x))} + B^*b^*d^{2x^*x^{(4n)}e^{(m \log(e) + m \log(x))} + 2B^*b^*c^*d^*x^*x^{(3n)}e^{(m \log(e) + m \log(x))} + B^*a^*d^{2x^*x^{(3n)}e^{(m \log(e) + m \log(x))} + A^*b^*d^{2x^*x^{(3n)}e^{(m \log(e) + m \log(x))} + B^*b^*d^{2x^*x^{(3n)}e^{(m \log(e) + m \log(x))} + B^*b^*c^{2x^*x^{(2n)}e^{(m \log(e) + m \log(x))} + 2B^*a^*c^*d^*x^*x^{(2n)}e^{(m \log(e) + m \log(x))} + 2A^*b^*c^*d^*x^*x^{(2n)}e^{(m \log(e) + m \log(x))} + 2B^*b^*c^*d^*x^*x^{(2n)}e^{(m \log(e) + m \log(x))} + A^*a^*d^{2x^*x^{(2n)}e^{(m \log(e) + m \log(x))} + B^*a^*d^{2x^*x^{(2n)}e^{(m \log(e) + m \log(x))} + A^*b^*d^{2x^*x^{(2n)}e^{(m \log(e) + m \log(x))} + m \log(x))} + B^*b^*d^{2x^*x^{(2n)}e^{(m \log(e) + m \log(x))} + B^*a^*c^{2x^*x^n}e^{(m \log(e) + m \log(x))} + A^*b^*c^{2x^*x^n}e^{(m \log(e) + m \log(x))} + B^*b^*c^{2x^*x^n}e^{(m \log(e) + m \log(x))} + 2A^*a^*c^*d^*x^*x^n}e^{(m \log(e) + m \log(x))} + 2B$

$$\begin{aligned}
 & *a*c*d*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2*A*b*c*d*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2*B*b*c*d*x*x^n*e^{(m*\log(e) + m*\log(x))} + A*a*d^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + B*a*d^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + A*b*d^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + B*b*d^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + A*a*c^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + B*a*c^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + A*b*c^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + B*b*c^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2*A*a*c*d*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2*B*a*c*d*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2*A*b*c*d*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2*B*b*c*d*x*x^n*e^{(m*\log(e) + m*\log(x))} + A*a*d^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + B*a*d^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + A*b*d^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + B*b*d^2*x*x^n*e^{(m*\log(e) + m*\log(x))})/(m^5 + 10*m^4*n + 35*m^3*n^2 + 50*m^2*n^3 + 24*m*n^4 + 5*m^4 + 40*m^3*n + 105*m^2*n^2 + 100*m*n^3 + 24*n^4 + 10*m^3 + 60*m^2*n + 105*m*n^2 + 50*n^3 + 10*m^2 + 40*m*n + 35*n^2 + 5*m + 10*n + 1)
 \end{aligned}$$

Mupad [B] (verification not implemented)

Time = 9.47 (sec) , antiderivative size = 588, normalized size of antiderivative = 3.68

$$\begin{aligned}
 & \int (ex)^m (a + bx^n) (A + Bx^n) (c + dx^n)^2 dx \\
 & = \frac{x x^{2n} (ex)^m (A a d^2 + B b c^2 + 2 A b c d + 2 B a c d) (m^3 + 8 m^2 n + 3 m^2 + 19 m n^2 + 16 m n + 3 m + 12 n^3 + 10 m^3 n + 4 m^3 + 35 m^2 n^2 + 30 m^2 n + 6 m^2 + 50 m n^3 + 70 m n^2 + 30 m n + 4 m + 24 n^4 + 50 n^3 + A a c^2 x (ex)^m}{m^4 + 10 m^3 n + 4 m^3 + 35 m^2 n^2 + 30 m^2 n + 6 m^2 + 50 m n^3 + 70 m n^2 + 30 m n + 4 m + 24 n^4 + 50 n^3} \\
 & + \frac{A a c^2 x (ex)^m}{m + 1} \\
 & + \frac{c x x^n (ex)^m (2 A a d + A b c + B a c) (m^3 + 9 m^2 n + 3 m^2 + 26 m n^2 + 18 m n + 3 m + 24 n^3 + 20 m^3 n + 4 m^3 + 35 m^2 n^2 + 30 m^2 n + 6 m^2 + 50 m n^3 + 70 m n^2 + 30 m n + 4 m + 24 n^4 + 50 n^3 + d x x^{3n} (ex)^m (A b d + B a d + 2 B b c) (m^3 + 7 m^2 n + 3 m^2 + 14 m n^2 + 14 m n + 3 m + 8 n^3 + 10 m^3 n + 4 m^3 + 35 m^2 n^2 + 30 m^2 n + 6 m^2 + 50 m n^3 + 70 m n^2 + 30 m n + 4 m + 24 n^4 + 50 n^3 + B b d^2 x x^{4n} (ex)^m (m^3 + 6 m^2 n + 3 m^2 + 11 m n^2 + 12 m n + 3 m + 6 n^3 + 11 n^2 + 6 n^3 + 10 m^3 n + 4 m^3 + 35 m^2 n^2 + 30 m^2 n + 6 m^2 + 50 m n^3 + 70 m n^2 + 30 m n + 4 m + 24 n^4 + 50 n^3)}{m^4 + 10 m^3 n + 4 m^3 + 35 m^2 n^2 + 30 m^2 n + 6 m^2 + 50 m n^3 + 70 m n^2 + 30 m n + 4 m + 24 n^4 + 50 n^3}
 \end{aligned}$$

[In] int((e*x)^m*(A + B*x^n)*(a + b*x^n)*(c + d*x^n)^2,x)

[Out] $(x*x^{(2*n)}*(e*x)^m*(A*a*d^2 + B*b*c^2 + 2*A*b*c*d + 2*B*a*c*d)*(3*m + 8*n + 16*m*n + 19*m*n^2 + 8*m^2*n + 3*m^2 + m^3 + 19*n^2 + 12*n^3 + 1))/(4*m + 10*n + 30*m*n + 70*m*n^2 + 30*m^2*n + 50*m*n^3 + 10*m^3*n + 6*m^2 + 4*m^3 + m^4 + 35*n^2 + 50*n^3 + 24*n^4 + 35*m^2*n^2 + 1) + (A*a*c^2*x*(e*x)^m)/(m + 1) + (c*x*x^n*(e*x)^m*(2*A*a*d + A*b*c + B*a*c)*(3*m + 9*n + 18*m*n + 26*m*n^2 + 9*m^2*n + 3*m^2 + m^3 + 26*n^2 + 24*n^3 + 1))/(4*m + 10*n + 30*m*n + 70*m*n^2 + 30*m^2*n + 50*m*n^3 + 10*m^3*n + 6*m^2 + 4*m^3 + m^4 + 35*n^2 + 50*n^3 + 24*n^4 + 35*m^2*n^2 + 1) + (d*x*x^{(3*n)}*(e*x)^m*(A*b*d + B*a*d + 2*B*b*c)*(3*m + 7*n + 14*m*n + 14*m*n^2 + 7*m^2*n + 3*m^2 + m^3 + 14*n^2 + 8*n^3 + 1))/(4*m + 10*n + 30*m*n + 70*m*n^2 + 30*m^2*n + 50*m*n^3 + 10*m^3*n + 6*m^2 + 4*m^3 + m^4 + 35*n^2 + 50*n^3 + 24*n^4 + 35*m^2*n^2 + 1) + (B*b*d^2*x*x^{(4*n)}*(e*x)^m*(3*m + 6*n + 12*m*n + 11*m*n^2 + 6*m^2*n + 3*m^2 + m$

$$\begin{aligned} &^3 + 11*n^2 + 6*n^3 + 1)) / (4*m + 10*n + 30*m*n + 70*m*n^2 + 30*m^2*n + 50*m \\ &*n^3 + 10*m^3*n + 6*m^2 + 4*m^3 + m^4 + 35*n^2 + 50*n^3 + 24*n^4 + 35*m^2*n \\ &^2 + 1) \end{aligned}$$

3.11 $\int (ex)^m (A + Bx^n) (c + dx^n)^2 dx$

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Optimal result

Integrand size = 22, antiderivative size = 102

$$\int (ex)^m (A + Bx^n) (c + dx^n)^2 dx = \frac{c(Bc + 2Ad)x^{1+n}(ex)^m}{1 + m + n} + \frac{d(2Bc + Ad)x^{1+2n}(ex)^m}{1 + m + 2n} + \frac{Bd^2x^{1+3n}(ex)^m}{1 + m + 3n} + \frac{Ac^2(ex)^{1+m}}{e(1 + m)}$$

[Out] $c*(2*A*d+B*c)*x^{(1+n)}*(e*x)^m/(1+m+n)+d*(A*d+2*B*c)*x^{(1+2*n)}*(e*x)^m/(1+m+2*n)+B*d^2*x^{(1+3*n)}*(e*x)^m/(1+m+3*n)+A*c^2*(e*x)^{(1+m)}/e/(1+m)$

Rubi [A] (verified)

Time = 0.05 (sec) , antiderivative size = 102, normalized size of antiderivative = 1.00, number of steps used = 8, number of rules used = 3, $\frac{\text{number of rules}}{\text{integrand size}} = 0.136$, Rules used = {459, 20, 30}

$$\int (ex)^m (A + Bx^n) (c + dx^n)^2 dx = \frac{cx^{n+1}(ex)^m(2Ad + Bc)}{m + n + 1} + \frac{dx^{2n+1}(ex)^m(Ad + 2Bc)}{m + 2n + 1} + \frac{Ac^2(ex)^{m+1}}{e(m + 1)} + \frac{Bd^2x^{3n+1}(ex)^m}{m + 3n + 1}$$

[In] $\text{Int}[(e*x)^m*(A + B*x^n)*(c + d*x^n)^2,x]$

[Out] $(c*(B*c + 2*A*d)*x^{(1 + n)}*(e*x)^m)/(1 + m + n) + (d*(2*B*c + A*d)*x^{(1 + 2*n)}*(e*x)^m)/(1 + m + 2*n) + (B*d^2*x^{(1 + 3*n)}*(e*x)^m)/(1 + m + 3*n) + (A*c^2*(e*x)^{(1 + m)})/(e*(1 + m))$

Rule 20

$\text{Int}[(u_*)*((a_*)*(v_))^{(m_*)}*((b_*)*(v_))^{(n_*)}, x_Symbol] \rightarrow \text{Dist}[b^{\text{IntPart}[n]}*((b*v)^{\text{FracPart}[n]}/(a^{\text{IntPart}[n]}*(a*v)^{\text{FracPart}[n]})), \text{Int}[u*(a*v)^{(m+n)}$

), x], x] /; FreeQ[{a, b, m, n}, x] && !IntegerQ[m] && !IntegerQ[n] && !IntegerQ[m + n]

Rule 30

Int[(x_)^(m_), x_Symbol] := Simp[x^(m + 1)/(m + 1), x] /; FreeQ[m, x] && NeQ[m, -1]

Rule 459

Int[((e_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_), x_Symbol] := Int[ExpandIntegrand[(e*x)^m*(a + b*x^n)^p*(c + d*x^n)^q, x], x] /; FreeQ[{a, b, c, d, e, m, n}, x] && NeQ[b*c - a*d, 0] && IGtQ[p, 0] && IGtQ[q, 0]

Rubi steps

$$\begin{aligned}
 \text{integral} &= \int (Ac^2(ex)^m + c(Bc + 2Ad)x^n(ex)^m + d(2Bc + Ad)x^{2n}(ex)^m + Bd^2x^{3n}(ex)^m) dx \\
 &= \frac{Ac^2(ex)^{1+m}}{e(1+m)} + (Bd^2) \int x^{3n}(ex)^m dx \\
 &\quad + (d(2Bc + Ad)) \int x^{2n}(ex)^m dx + (c(Bc + 2Ad)) \int x^n(ex)^m dx \\
 &= \frac{Ac^2(ex)^{1+m}}{e(1+m)} + (Bd^2x^{-m}(ex)^m) \int x^{m+3n} dx \\
 &\quad + (d(2Bc + Ad)x^{-m}(ex)^m) \int x^{m+2n} dx + (c(Bc + 2Ad)x^{-m}(ex)^m) \int x^{m+n} dx \\
 &= \frac{c(Bc + 2Ad)x^{1+n}(ex)^m}{1+m+n} + \frac{d(2Bc + Ad)x^{1+2n}(ex)^m}{1+m+2n} + \frac{Bd^2x^{1+3n}(ex)^m}{1+m+3n} + \frac{Ac^2(ex)^{1+m}}{e(1+m)}
 \end{aligned}$$

Mathematica [A] (verified)

Time = 0.18 (sec) , antiderivative size = 78, normalized size of antiderivative = 0.76

$$\int (ex)^m (A + Bx^n) (c + dx^n)^2 dx = x(ex)^m \left(\frac{Ac^2}{1+m} + \frac{c(Bc + 2Ad)x^n}{1+m+n} + \frac{d(2Bc + Ad)x^{2n}}{1+m+2n} + \frac{Bd^2x^{3n}}{1+m+3n} \right)$$

[In] Integrate[(e*x)^m*(A + B*x^n)*(c + d*x^n)^2,x]

[Out] x*(e*x)^m*((A*c^2)/(1 + m) + (c*(B*c + 2*A*d)*x^n)/(1 + m + n) + (d*(2*B*c + A*d)*x^(2*n))/(1 + m + 2*n) + (B*d^2*x^(3*n))/(1 + m + 3*n))

Maple [C] (warning: unable to verify)

Result contains higher order function than in optimal. Order 9 vs. order 3.

Time = 4.92 (sec) , antiderivative size = 699, normalized size of antiderivative = 6.85

method	result
risch	$\frac{x(5B^2c^2x^n+16Bcdmnx^{2n}+6Bcdm^2x^{2n}+Ac^2+Bc^2m^3x^n+6Bd^2mnx^{3n}+3Ac^2m+6Ac^2n+3Bc^2m^2x^n+6Bc^2n^2x^n+3Bd^2m^3+3Bd^2m^2x^n+3Bd^2mx^{3n}+3Bd^2n^2x^n)}{12Ax(ex)^m c^2mn+3Bx x^n(ex)^m c^2m+5Bx x^n(ex)^m c^2n+2Ax x^n(ex)^m cd+Ax x^{2n}(ex)^m d^2m^3+3Bx x^{3n}(ex)^m d^2m^2+2Bx x^{3n}(ex)^m d^2m^2}$
paralelrisch	

[In] int((e*x)^m*(A+B*x^n)*(c+d*x^n)^2,x,method=_RETURNVERBOSE)

[Out] $x*(16*B*c*d*m*n*(x^n)^2+5*B*c^2*x^n*n+2*B*c*d*(x^n)^2+3*A*d^2*(x^n)^2*m+6*B*c*d*m^2*(x^n)^2+A*c^2+B*c^2*m^3*x^n+3*B*d^2*m^2*(x^n)^3+8*B*c*d*m^2*n*(x^n)^2+3*A*c^2*m+6*A*c^2*n+4*A*d^2*(x^n)^2*n+3*B*c^2*m^2*x^n+6*B*c^2*n^2*x^n+3*B*c^2*x^n*m+A*c^2*m^3+12*A*c^2*m*n+6*B*d^2*m*n*(x^n)^3+2*A*c*d*m^3*x^n+8*A*d^2*m*n*(x^n)^2+10*A*c*d*m^2*n*x^n+12*A*c*d*m*n^2*x^n+20*A*c*d*m*n*x^n+6*A*c^2*n^3+3*A*c^2*m^2+11*A*c^2*n^2+3*A*d^2*n^2*(x^n)^2+3*m*B*d^2*(x^n)^3+3*B*d^2*(x^n)^3*n+(x^n)^2*A*d^2+x^n*B*c^2+2*B*d^2*n^2*(x^n)^3+(x^n)^3*B*d^2+2*A*c*d*x^n+6*A*c^2*m^2*n+11*A*c^2*m*n^2+5*B*c^2*m^2*n*x^n+6*B*c^2*m*n^2*x^n+6*B*c*d*m^2*(x^n)^2+3*B*d^2*m^2*n*(x^n)^3+B*d^2*m^3*(x^n)^3+3*A*d^2*m^2*(x^n)^2+6*B*c*d*n^2*(x^n)^2+6*A*c*d*m^2*x^n+A*d^2*m^3*(x^n)^2+12*A*c*d*n^2*x^n+10*B*c^2*m*n*x^n+6*B*c*d*(x^n)^2*m+8*B*c*d*(x^n)^2*n+3*A*d^2*m*n^2*(x^n)^2+2*B*c*d*m^3*(x^n)^2+6*A*c*d*x^n*m+10*A*c*d*x^n*n+2*B*d^2*m*n^2*(x^n)^3+4*A*d^2*m^2*n*(x^n)^2)/(1+m)/(1+m+n)/(1+m+2*n)/(1+m+3*n)*e^m*x^m*exp(1/2*I*c*sgn(I*e*x)*Pi*m*(csgn(I*e*x)-csgn(I*x))*(-csgn(I*e*x)+csgn(I*e)))$

Fricas [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 527 vs. 2(102) = 204.

Time = 0.28 (sec) , antiderivative size = 527, normalized size of antiderivative = 5.17

$$\int (ex)^m (A + Bx^n) (c + dx^n)^2 dx$$

$$= \frac{(Bd^2m^3 + 3Bd^2m^2 + 3Bd^2m + Bd^2 + 2(Bd^2m + Bd^2)n^2 + 3(Bd^2m^2 + 2Bd^2m + Bd^2)n)xx^{3n}e^{(m \log(e) + m \log(x))}}{(1+m)(1+m+n)(1+m+2n)(1+m+3n)}$$

[In] integrate((e*x)^m*(A+B*x^n)*(c+d*x^n)^2,x, algorithm="fricas")

[Out] $((B*d^2*m^3 + 3*B*d^2*m^2 + 3*B*d^2*m + B*d^2 + 2*(B*d^2*m + B*d^2)*n^2 + 3*(B*d^2*m^2 + 2*B*d^2*m + B*d^2)*n)*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + ((2*B*c*d + A*d^2)*m^3 + 2*B*c*d + A*d^2 + 3*(2*B*c*d + A*d^2)*m^2 + 3*(2*B*c*d + A*d^2 + (2*B*c*d + A*d^2)*m)*n^2 + 3*(2*B*c*d + A*d^2)*m + 4*(2*B*c*d + A*d^2 + (2*B*c*d + A*d^2)*m^2 + 2*(2*B*c*d + A*d^2)*m)*n)*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))}$

$\log(e) + m \log(x)) + ((B*c^2 + 2*A*c*d)*m^3 + B*c^2 + 2*A*c*d + 3*(B*c^2 + 2*A*c*d)*m^2 + 6*(B*c^2 + 2*A*c*d + (B*c^2 + 2*A*c*d)*m)*n^2 + 3*(B*c^2 + 2*A*c*d)*m + 5*(B*c^2 + 2*A*c*d + (B*c^2 + 2*A*c*d)*m^2 + 2*(B*c^2 + 2*A*c*d)*m)*n)*x*x^n*e^{(m \log(e) + m \log(x))} + (A*c^2*m^3 + 6*A*c^2*n^3 + 3*A*c^2*m^2 + 3*A*c^2*m + A*c^2 + 11*(A*c^2*m + A*c^2)*n^2 + 6*(A*c^2*m^2 + 2*A*c^2*m + A*c^2)*n)*x*e^{(m \log(e) + m \log(x))}/(m^4 + 6*(m + 1)*n^3 + 4*m^3 + 11*(m^2 + 2*m + 1)*n^2 + 6*m^2 + 6*(m^3 + 3*m^2 + 3*m + 1)*n + 4*m + 1)$

Sympy [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 5882 vs. $2(94) = 188$.

Time = 3.13 (sec) , antiderivative size = 5882, normalized size of antiderivative = 57.67

$$\int (ex)^m (A + Bx^n)(c + dx^n)^2 dx = \text{Too large to display}$$

[In] integrate((e*x)**m*(A+B*x**n)*(c+d*x**n)**2,x)

[Out] Piecewise(((A + B)*(c + d)**2*log(x)/e, Eq(m, -1) & Eq(n, 0)), ((A*c**2*log(x) + 2*A*c*d*x**n/n + A*d**2*x**(2*n)/(2*n) + B*c**2*x**n/n + B*c*d*x**(2*n)/n + B*d**2*x**(3*n)/(3*n))/e, Eq(m, -1)), (A*c**2*Piecewise((0**(-3*n - 1)*x, Eq(e, 0)), (Piecewise((-1/(3*n*(e*x)**(3*n))), Ne(n, 0)), (log(e*x), True))/e, True)) + 2*A*c*d*Piecewise((-x*x**n*(e*x)**(-3*n - 1)/(2*n), Ne(n, 0)), (x*x**n*(e*x)**(-3*n - 1)*log(x), True)) + A*d**2*Piecewise((-x*x**(2*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x*x**(2*n)*(e*x)**(-3*n - 1)*log(x), True)) + B*c**2*Piecewise((-x*x**n*(e*x)**(-3*n - 1)/(2*n), Ne(n, 0)), (x*x**n*(e*x)**(-3*n - 1)*log(x), True)) + 2*B*c*d*Piecewise((-x*x**(2*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x*x**(2*n)*(e*x)**(-3*n - 1)*log(x), True)) + B*d**2*x*x**(3*n)*(e*x)**(-3*n - 1)*log(x), Eq(m, -3*n - 1)), (A*c**2*Piecewise((0**(-2*n - 1)*x, Eq(e, 0)), (Piecewise((-1/(2*n*(e*x)**(2*n))), Ne(n, 0)), (log(e*x), True))/e, True)) + 2*A*c*d*Piecewise((-x*x**n*(e*x)**(-2*n - 1)/n, Ne(n, 0)), (x*x**n*(e*x)**(-2*n - 1)*log(x), True)) + A*d**2*x*x**(2*n)*(e*x)**(-2*n - 1)*log(x) + B*c**2*Piecewise((-x*x**n*(e*x)**(-2*n - 1)/n, Ne(n, 0)), (x*x**n*(e*x)**(-2*n - 1)*log(x), True)) + 2*B*c*d*x*x**(2*n)*(e*x)**(-2*n - 1)*log(x) + B*d**2*Piecewise((x*x**(3*n)*(e*x)**(-2*n - 1)/n, Ne(n, 0)), (x*x**(3*n)*(e*x)**(-2*n - 1)*log(x), True)), Eq(m, -2*n - 1)), (A*c**2*Piecewise((0**(-n - 1)*x, Eq(e, 0)), (Piecewise((-1/(n*(e*x)**n), Ne(n, 0)), (log(e*x), True))/e, True)) + 2*A*c*d*x*x**n*(e*x)**(-n - 1)*log(x) + A*d**2*Piecewise((x*x**(2*n)*(e*x)**(-n - 1)/n, Ne(n, 0)), (x*x**(2*n)*(e*x)**(-n - 1)*log(x), True)) + B*c**2*x*x**n*(e*x)**(-n - 1)*log(x) + 2*B*c*d*Piecewise((x*x**(2*n)*(e*x)**(-n - 1)/n, Ne(n, 0)), (x*x**(2*n)*(e*x)**(-n - 1)*log(x), True)) + B*d**2*Piecewise((x*x**(3*n)*(e*x)**(-n - 1)/(2*n), Ne(n, 0)), (x*x**(3*n)*(e*x)**(-n - 1)*log(x), True)), Eq(m, -n - 1)), (A*c**2*m**3*x*(e*x)**m/(m**4 + 6*m**3*n + 4*m**3 + 11*m**2*n**2 + 18*m**2*n + 6*m**2 + 6*m*n**3 + 22*m*n**2 + 18*m*n + 4*m + 6*n**3 + 11*n**2 + 6*

$$\begin{aligned}
& x*x**(2*n)*(e*x)**m/(m**4 + 6*m**3*n + 4*m**3 + 11*m**2*n**2 + 18*m**2*n + \\
& 6*m**2 + 6*m*n**3 + 22*m*n**2 + 18*m*n + 4*m + 6*n**3 + 11*n**2 + 6*n + 1) \\
& + 8*A*d**2*m*n*x*x**(2*n)*(e*x)**m/(m**4 + 6*m**3*n + 4*m**3 + 11*m**2*n**2 \\
& + 18*m**2*n + 6*m**2 + 6*m*n**3 + 22*m*n**2 + 18*m*n + 4*m + 6*n**3 + 11*n \\
& **2 + 6*n + 1) + 3*A*d**2*m*x*x**(2*n)*(e*x)**m/(m**4 + 6*m**3*n + 4*m**3 + \\
& 11*m**2*n**2 + 18*m**2*n + 6*m**2 + 6*m*n**3 + 22*m*n**2 + 18*m*n + 4*m + \\
& 6*n**3 + 11*n**2 + 6*n + 1) + 3*A*d**2*n**2*x*x**(2*n)*(e*x)**m/(m**4 + 6*m \\
& **3*n + 4*m**3 + 11*m**2*n**2 + 18*m**2*n + 6*m**2 + 6*m*n**3 + 22*m*n**2 + \\
& 18*m*n + 4*m + 6*n**3 + 11*n**2 + 6*n + 1) + 4*A*d**2*n*x*x**(2*n)*(e*x)** \\
& m/(m**4 + 6*m**3*n + 4*m**3 + 11*m**2*n**2 + 18*m**2*n + 6*m**2 + 6*m*n**3 \\
& + 22*m*n**2 + 18*m*n + 4*m + 6*n**3 + 11*n**2 + 6*n + 1) + A*d**2*x*x**(2*n \\
&)*(e*x)**m/(m**4 + 6*m**3*n + 4*m**3 + 11*m**2*n**2 + 18*m**2*n + 6*m**2 + \\
& 6*m*n**3 + 22*m*n**2 + 18*m*n + 4*m + 6*n**3 + 11*n**2 + 6*n + 1) + B*c**2* \\
& m**3*x*x**n*(e*x)**m/(m**4 + 6*m**3*n + 4*m**3 + 11*m**2*n**2 + 18*m**2*n + \\
& 6*m**2 + 6*m*n**3 + 22*m*n**2 + 18*m*n + 4*m + 6*n**3 + 11*n**2 + 6*n + 1) \\
& + 5*B*c**2*m**2*n*x*x**n*(e*x)**m/(m**4 + 6*m**3*n + 4*m**3 + 11*m**2*n**2 \\
& + 18*m**2*n + 6*m**2 + 6*m*n**3 + 22*m*n**2 + 18*m*n + 4*m + 6*n**3 + 11*n \\
& **2 + 6*n + 1) + 3*B*c**2*m**2*x*x**n*(e*x)**m/(m**4 + 6*m**3*n + 4*m**3 + \\
& 11*m**2*n**2 + 18*m**2*n + 6*m**2 + 6*m*n**3 + 22*m*n**2 + 18*m*n + 4*m + 6 \\
& *n**3 + 11*n**2 + 6*n + 1) + 6*B*c**2*m*n**2*x*x**n*(e*x)**m/(m**4 + 6*m**3 \\
& *n + 4*m**3 + 11*m**2*n**2 + 18*m**2*n + 6*m**2 + 6*m*n**3 + 22*m*n**2 + 18 \\
& *m*n + 4*m + 6*n**3 + 11*n**2 + 6*n + 1) + 10*B*c**2*m*n*x*x**n*(e*x)**m/(m \\
& **4 + 6*m**3*n + 4*m**3 + 11*m**2*n**2 + 18*m**2*n + 6*m**2 + 6*m*n**3 + 22 \\
& *m*n**2 + 18*m*n + 4*m + 6*n**3 + 11*n**2 + 6*n + 1) + 3*B*c**2*m*x*x**n*(e \\
& *x)**m/(m**4 + 6*m**3*n + 4*m**3 + 11*m**2*n**2 + 18*m**2*n + 6*m**2 + 6*m* \\
& n**3 + 22*m*n**2 + 18*m*n + 4*m + 6*n**3 + 11*n**2 + 6*n + 1) + 6*B*c**2*n* \\
& *2*x*x**n*(e*x)**m/(m**4 + 6*m**3*n + 4*m**3 + 11*m**2*n**2 + 18*m**2*n + 6 \\
& *m**2 + 6*m*n**3 + 22*m*n**2 + 18*m*n + 4*m + 6*n**3 + 11*n**2 + 6*n + 1) + \\
& 5*B*c**2*n*x*x**n*(e*x)**m/(m**4 + 6*m**3*n + 4*m**3 + 11*m**2*n**2 + 18*m \\
& **2*n + 6*m**2 + 6*m*n**3 + 22*m*n**2 + 18*m*n + 4*m + 6*n**3 + 11*n**2 + 6 \\
& *n + 1) + B*c**2*x*x**n*(e*x)**m/(m**4 + 6*m**3*n + 4*m**3 + 11*m**2*n**2 + \\
& 18*m**2*n + 6*m**2 + 6*m*n**3 + 22*m*n**2 + 18*m*n + 4*m + 6*n**3 + 11*n** \\
& 2 + 6*n + 1) + 2*B*c*d*m**3*x*x**(2*n)*(e*x)**m/(m**4 + 6*m**3*n + 4*m**3 + \\
& 11*m**2*n**2 + 18*m**2*n + 6*m**2 + 6*m*n**3 + 22*m*n**2 + 18*m*n + 4*m + \\
& 6*n**3 + 11*n**2 + 6*n + 1) + 8*B*c*d*m**2*n*x*x**(2*n)*(e*x)**m/(m**4 + 6* \\
& m**3*n + 4*m**3 + 11*m**2*n**2 + 18*m**2*n + 6*m**2 + 6*m*n**3 + 22*m*n**2 \\
& + 18*m*n + 4*m + 6*n**3 + 11*n**2 + 6*n + 1) + 6*B*c*d*m**2*x*x**(2*n)*(e*x \\
&)**m/(m**4 + 6*m**3*n + 4*m**3 + 11*m**2*n**2 + 18*m**2*n + 6*m**2 + 6*m*n* \\
& *3 + 22*m*n**2 + 18*m*n + 4*m + 6*n**3 + 11*n**2 + 6*n + 1) + 6*B*c*d*m*n** \\
& 2*x*x**(2*n)*(e*x)**m/(m**4 + 6*m**3*n + 4*m**3 + 11*m**2*n**2 + 18*m**2*n \\
& + 6*m**2 + 6*m*n**3 + 22*m*n**2 + 18*m*n + 4*m + 6*n**3 + 11*n**2 + 6*n + 1 \\
&) + 16*B*c*d*m*n*x*x**(2*n)*(e*x)**m/(m**4 + 6*m**3*n + 4*m**3 + 11*m**2*n** \\
& *2 + 18*m**2*n + 6*m**2 + 6*m*n**3 + 22*m*n**2 + 18*m*n + 4*m + 6*n**3 + 11 \\
& *n**2 + 6*n + 1) + 6*B*c*d*m*x*x**(2*n)*(e*x)**m/(m**4 + 6*m**3*n + 4*m**3 \\
& + 11*m**2*n**2 + 18*m**2*n + 6*m**2 + 6*m*n**3 + 22*m*n**2 + 18*m*n + 4*m +
\end{aligned}$$

```

6*n**3 + 11*n**2 + 6*n + 1) + 6*B*c*d*n**2*x*x**(2*n)*(e*x)**m/(m**4 + 6*m
**3*n + 4*m**3 + 11*m**2*n**2 + 18*m**2*n + 6*m**2 + 6*m*n**3 + 22*m*n**2 +
18*m*n + 4*m + 6*n**3 + 11*n**2 + 6*n + 1) + 8*B*c*d*n*x*x**(2*n)*(e*x)**m
/(m**4 + 6*m**3*n + 4*m**3 + 11*m**2*n**2 + 18*m**2*n + 6*m**2 + 6*m*n**3 +
22*m*n**2 + 18*m*n + 4*m + 6*n**3 + 11*n**2 + 6*n + 1) + 2*B*c*d*x*x**(2*n
)*(e*x)**m/(m**4 + 6*m**3*n + 4*m**3 + 11*m**2*n**2 + 18*m**2*n + 6*m**2 +
6*m*n**3 + 22*m*n**2 + 18*m*n + 4*m + 6*n**3 + 11*n**2 + 6*n + 1) + B*d**2*
m**3*x*x**(3*n)*(e*x)**m/(m**4 + 6*m**3*n + 4*m**3 + 11*m**2*n**2 + 18*m**2
*n + 6*m**2 + 6*m*n**3 + 22*m*n**2 + 18*m*n + 4*m + 6*n**3 + 11*n**2 + 6*n
+ 1) + 3*B*d**2*m**2*n*x*x**(3*n)*(e*x)**m/(m**4 + 6*m**3*n + 4*m**3 + 11*m
**2*n**2 + 18*m**2*n + 6*m**2 + 6*m*n**3 + 22*m*n**2 + 18*m*n + 4*m + 6*n**
3 + 11*n**2 + 6*n + 1) + 3*B*d**2*m**2*x*x**(3*n)*(e*x)**m/(m**4 + 6*m**3*n
+ 4*m**3 + 11*m**2*n**2 + 18*m**2*n + 6*m**2 + 6*m*n**3 + 22*m*n**2 + 18*m
*n + 4*m + 6*n**3 + 11*n**2 + 6*n + 1) + 2*B*d**2*m*n**2*x*x**(3*n)*(e*x)**
m/(m**4 + 6*m**3*n + 4*m**3 + 11*m**2*n**2 + 18*m**2*n + 6*m**2 + 6*m*n**3
+ 22*m*n**2 + 18*m*n + 4*m + 6*n**3 + 11*n**2 + 6*n + 1) + 6*B*d**2*m*n*x*x
**(3*n)*(e*x)**m/(m**4 + 6*m**3*n + 4*m**3 + 11*m**2*n**2 + 18*m**2*n + 6*m
**2 + 6*m*n**3 + 22*m*n**2 + 18*m*n + 4*m + 6*n**3 + 11*n**2 + 6*n + 1) + 3
*B*d**2*m*x*x**(3*n)*(e*x)**m/(m**4 + 6*m**3*n + 4*m**3 + 11*m**2*n**2 + 18
*m**2*n + 6*m**2 + 6*m*n**3 + 22*m*n**2 + 18*m*n + 4*m + 6*n**3 + 11*n**2 +
6*n + 1) + 2*B*d**2*n**2*x*x**(3*n)*(e*x)**m/(m**4 + 6*m**3*n + 4*m**3 + 1
1*m**2*n**2 + 18*m**2*n + 6*m**2 + 6*m*n**3 + 22*m*n**2 + 18*m*n + 4*m + 6*
n**3 + 11*n**2 + 6*n + 1) + 3*B*d**2*n*x*x**(3*n)*(e*x)**m/(m**4 + 6*m**3*n
+ 4*m**3 + 11*m**2*n**2 + 18*m**2*n + 6*m**2 + 6*m*n**3 + 22*m*n**2 + 18*m
*n + 4*m + 6*n**3 + 11*n**2 + 6*n + 1) + B*d**2*x*x**(3*n)*(e*x)**m/(m**4 +
6*m**3*n + 4*m**3 + 11*m**2*n**2 + 18*m**2*n + 6*m**2 + 6*m*n**3 + 22*m*n*
*2 + 18*m*n + 4*m + 6*n**3 + 11*n**2 + 6*n + 1), True))

```

Maxima [A] (verification not implemented)

none

Time = 0.20 (sec) , antiderivative size = 155, normalized size of antiderivative = 1.52

$$\int (ex)^m (A + Bx^n) (c + dx^n)^2 dx = \frac{Bd^2 e^m x e^{(m \log(x) + 3n \log(x))}}{m + 3n + 1} + \frac{2Bcde^m x e^{(m \log(x) + 2n \log(x))}}{m + 2n + 1} \\
+ \frac{Ad^2 e^m x e^{(m \log(x) + 2n \log(x))}}{m + 2n + 1} + \frac{Bc^2 e^m x e^{(m \log(x) + n \log(x))}}{m + n + 1} \\
+ \frac{2Acde^m x e^{(m \log(x) + n \log(x))}}{m + n + 1} + \frac{(ex)^{m+1} Ac^2}{e(m+1)}$$

[In] integrate((e*x)^m*(A+B*x^n)*(c+d*x^n)^2,x, algorithm="maxima")

[Out] B*d^2*e^m*x*e^(m*log(x) + 3*n*log(x))/(m + 3*n + 1) + 2*B*c*d*e^m*x*e^(m*log(x) + 2*n*log(x))/(m + 2*n + 1) + A*d^2*e^m*x*e^(m*log(x) + 2*n*log(x))/(m

+ 2*n + 1) + B*c^2*e^m*x*e^(m*log(x) + n*log(x))/(m + n + 1) + 2*A*c*d*e^m*x*e^(m*log(x) + n*log(x))/(m + n + 1) + (e*x)^(m + 1)*A*c^2/(e*(m + 1))

Giac [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 2951 vs. 2(102) = 204.

Time = 0.30 (sec) , antiderivative size = 2951, normalized size of antiderivative = 28.93

$$\int (ex)^m (A + Bx^n)(c + dx^n)^2 dx = \text{Too large to display}$$

[In] integrate((e*x)^m*(A+B*x^n)*(c+d*x^n)^2,x, algorithm="giac")

[Out] (B*d^2*m^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 3*B*d^2*m^2*n*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 2*B*d^2*m*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 2*B*c*d*m^3*x*x^(2*n)*e^(m*log(e) + m*log(x)) + A*d^2*m^3*x*x^(2*n)*e^(m*log(e) + m*log(x)) + B*d^2*m^3*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 8*B*c*d*m^2*n*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 4*A*d^2*m^2*n*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 3*B*d^2*m^2*n*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 6*B*c*d*m*n^2*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 3*A*d^2*m*n^2*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 2*B*d^2*m*n^2*x*x^(2*n)*e^(m*log(e) + m*log(x)) + B*c^2*m^3*x*x^n*e^(m*log(e) + m*log(x)) + 2*A*c*d*m^3*x*x^n*e^(m*log(e) + m*log(x)) + 2*B*c*d*m^3*x*x^n*e^(m*log(e) + m*log(x)) + A*d^2*m^3*x*x^n*e^(m*log(e) + m*log(x)) + B*d^2*m^3*x*x^n*e^(m*log(e) + m*log(x)) + 5*B*c^2*m^2*n*x*x^n*e^(m*log(e) + m*log(x)) + 10*A*c*d*m^2*n*x*x^n*e^(m*log(e) + m*log(x)) + 8*B*c*d*m^2*n*x*x^n*e^(m*log(e) + m*log(x)) + 4*A*d^2*m^2*n*x*x^n*e^(m*log(e) + m*log(x)) + m*log(x) + 3*B*d^2*m^2*n*x*x^n*e^(m*log(e) + m*log(x)) + 6*B*c^2*m*n^2*x*x^n*e^(m*log(e) + m*log(x)) + 12*A*c*d*m*n^2*x*x^n*e^(m*log(e) + m*log(x)) + 6*B*c*d*m*n^2*x*x^n*e^(m*log(e) + m*log(x)) + 3*A*d^2*m*n^2*x*x^n*e^(m*log(e) + m*log(x)) + 2*B*d^2*m*n^2*x*x^n*e^(m*log(e) + m*log(x)) + A*c^2*m^3*x*x*e^(m*log(e) + m*log(x)) + B*c^2*m^3*x*x*e^(m*log(e) + m*log(x)) + 2*A*c*d*m^3*x*x*e^(m*log(e) + m*log(x)) + 2*B*c*d*m^3*x*x*e^(m*log(e) + m*log(x)) + A*d^2*m^3*x*x*e^(m*log(e) + m*log(x)) + B*d^2*m^3*x*x*e^(m*log(e) + m*log(x)) + 6*A*c^2*m^2*n*x*x*e^(m*log(e) + m*log(x)) + 5*B*c^2*m^2*n*x*x*e^(m*log(e) + m*log(x)) + 10*A*c*d*m^2*n*x*x*e^(m*log(e) + m*log(x)) + 8*B*c*d*m^2*n*x*x*e^(m*log(e) + m*log(x)) + m*log(x) + 4*A*d^2*m^2*n*x*x*e^(m*log(e) + m*log(x)) + 3*B*d^2*m^2*n*x*x*e^(m*log(e) + m*log(x)) + 11*A*c^2*m*n^2*x*x*e^(m*log(e) + m*log(x)) + 6*B*c^2*m*n^2*x*x*e^(m*log(e) + m*log(x)) + 12*A*c*d*m*n^2*x*x*e^(m*log(e) + m*log(x)) + 6*B*c*d*m*n^2*x*x*e^(m*log(e) + m*log(x)) + 3*A*d^2*m*n^2*x*x*e^(m*log(e) + m*log(x)) + m*log(x) + 2*B*d^2*m*n^2*x*x*e^(m*log(e) + m*log(x)) + 6*A*c^2*n^3*x*x*e^(m*log(e) + m*log(x)) + 3*B*d^2*m^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 6*B*d^2*m*n*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 2*B*d^2*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 6*B*c*d*m^2*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 3*A*d^2*m^2*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 3*B*d^2*m^2*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 16*B*c*d*m*n*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 8*A*d^2*m*n*x*x^(2*n)

$$\begin{aligned}
& e^{(m \log(e) + m \log(x))} + 6*B*d^2*m*n*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + \\
& 6*B*c*d*n^2*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + 3*A*d^2*n^2*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + \\
& 2*B*d^2*n^2*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + 3*B*c^2*m^2*x*x^n*e^{(m \log(e) + m \log(x))} + \\
& 6*A*c*d*m^2*x*x^n*e^{(m \log(e) + m \log(x))} + 6*B*c*d*m^2*x*x^n*e^{(m \log(e) + m \log(x))} + \\
& 3*A*d^2*m^2*x*x^n*e^{(m \log(e) + m \log(x))} + 3*B*d^2*m^2*x*x^n*e^{(m \log(e) + m \log(x))} + \\
& 10*B*c^2*m*n*x*x^n*e^{(m \log(e) + m \log(x))} + 20*A*c*d*m*n*x*x^n*e^{(m \log(e) + m \log(x))} + \\
& 16*B*c*d*m*n*x*x^n*e^{(m \log(e) + m \log(x))} + 8*A*d^2*m*n*x*x^n*e^{(m \log(e) + m \log(x))} + \\
& 6*B*d^2*m*n*x*x^n*e^{(m \log(e) + m \log(x))} + 6*B*c^2*n^2*x*x^n*e^{(m \log(e) + m \log(x))} + \\
& 12*A*c*d*n^2*x*x^n*e^{(m \log(e) + m \log(x))} + 6*B*c*d*n^2*x*x^n*e^{(m \log(e) + m \log(x))} + \\
& 3*A*d^2*n^2*x*x^n*e^{(m \log(e) + m \log(x))} + 2*B*d^2*n^2*x*x^n*e^{(m \log(e) + m \log(x))} + \\
& 3*A*c^2*m^2*x*x^n*e^{(m \log(e) + m \log(x))} + 3*B*c^2*m^2*x*x^n*e^{(m \log(e) + m \log(x))} + \\
& 6*A*c*d*m^2*x*x^n*e^{(m \log(e) + m \log(x))} + 6*B*c*d*m^2*x*x^n*e^{(m \log(e) + m \log(x))} + \\
& 3*A*d^2*m^2*x*x^n*e^{(m \log(e) + m \log(x))} + 3*B*d^2*m^2*x*x^n*e^{(m \log(e) + m \log(x))} + \\
& 12*A*c^2*m*n*x*x^n*e^{(m \log(e) + m \log(x))} + 10*B*c^2*m*n*x*x^n*e^{(m \log(e) + m \log(x))} + \\
& 20*A*c*d*m*n*x*x^n*e^{(m \log(e) + m \log(x))} + 16*B*c*d*m*n*x*x^n*e^{(m \log(e) + m \log(x))} + \\
& 8*A*d^2*m*n*x*x^n*e^{(m \log(e) + m \log(x))} + 6*B*d^2*m*n*x*x^n*e^{(m \log(e) + m \log(x))} + \\
& 11*A*c^2*n^2*x*x^n*e^{(m \log(e) + m \log(x))} + 6*B*c^2*n^2*x*x^n*e^{(m \log(e) + m \log(x))} + \\
& 12*A*c*d*n^2*x*x^n*e^{(m \log(e) + m \log(x))} + 6*B*c*d*n^2*x*x^n*e^{(m \log(e) + m \log(x))} + \\
& 3*A*d^2*n^2*x*x^n*e^{(m \log(e) + m \log(x))} + 2*B*d^2*n^2*x*x^n*e^{(m \log(e) + m \log(x))} + \\
& 3*B*d^2*m*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 3*B*d^2*n*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + \\
& 6*B*c*d*m*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + 3*A*d^2*m*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + \\
& 3*B*d^2*m*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + 8*B*c*d*n*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + \\
& 4*A*d^2*n*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + 3*B*d^2*n*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + \\
& 3*B*c^2*m*x*x^n*e^{(m \log(e) + m \log(x))} + 6*A*c*d*m*x*x^n*e^{(m \log(e) + m \log(x))} + \\
& 6*B*c*d*m*x*x^n*e^{(m \log(e) + m \log(x))} + 3*A*d^2*m*x*x^n*e^{(m \log(e) + m \log(x))} + \\
& 3*B*d^2*m*x*x^n*e^{(m \log(e) + m \log(x))} + 5*B*c^2*n*x*x^n*e^{(m \log(e) + m \log(x))} + \\
& 10*A*c*d*n*x*x^n*e^{(m \log(e) + m \log(x))} + 8*B*c*d*n*x*x^n*e^{(m \log(e) + m \log(x))} + \\
& 4*A*d^2*n*x*x^n*e^{(m \log(e) + m \log(x))} + 3*B*d^2*n*x*x^n*e^{(m \log(e) + m \log(x))} + \\
& 3*A*c^2*m*x*x^n*e^{(m \log(e) + m \log(x))} + 3*B*c^2*m*x*x^n*e^{(m \log(e) + m \log(x))} + \\
& 6*A*c*d*m*x*x^n*e^{(m \log(e) + m \log(x))} + 6*B*c*d*m*x*x^n*e^{(m \log(e) + m \log(x))} + \\
& 3*A*d^2*m*x*x^n*e^{(m \log(e) + m \log(x))} + 3*B*d^2*m*x*x^n*e^{(m \log(e) + m \log(x))} + \\
& 6*A*c^2*n*x*x^n*e^{(m \log(e) + m \log(x))} + 5*B*c^2*n*x*x^n*e^{(m \log(e) + m \log(x))} + \\
& 10*A*c*d*n*x*x^n*e^{(m \log(e) + m \log(x))} + 8*B*c*d*n*x*x^n*e^{(m \log(e) + m \log(x))} + \\
& 4*A*d^2*n*x*x^n*e^{(m \log(e) + m \log(x))} + 3*B*d^2*n*x*x^n*e^{(m \log(e) + m \log(x))} + \\
& B*d^2*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 2*B*c*d*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + \\
& A*d^2*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + B*d^2*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + \\
& B*c^2*x*x^n*e^{(m \log(e) + m \log(x))} + 2*A*c*d*x*x^n*e^{(m \log(e) + m \log(x))} + \\
& 2*B*c*d*x*x^n*e^{(m \log(e) + m \log(x))} + A*d^2*x*x^n*e^{(m \log(e) + m \log(x))} + \\
& B*d^2*x*x^n*e^{(m \log(e) + m \log(x))} + A*c^2*x*x^n*e^{(m \log(e) + m \log(x))} + \\
& B*c^2*x*x^n*e^{(m \log(e) + m \log(x))} + 2*A*c*d*x*x^n*e^{(m \log(e) + m \log(x))} + \\
& 2*B*c*d*x*x^n*e^{(m \log(e) + m \log(x))} + A*d^2*x*x^n*e^{(m \log(e) + m \log(x))}
\end{aligned}$$

$(e) + m \cdot \log(x)) + B \cdot d^2 \cdot x \cdot e^{(m \cdot \log(e) + m \cdot \log(x))} / (m^4 + 6 \cdot m^3 \cdot n + 11 \cdot m^2 \cdot n^2 + 6 \cdot m \cdot n^3 + 4 \cdot m^3 + 18 \cdot m^2 \cdot n + 22 \cdot m \cdot n^2 + 6 \cdot n^3 + 6 \cdot m^2 + 18 \cdot m \cdot n + 11 \cdot n^2 + 4 \cdot m + 6 \cdot n + 1)$

Mupad [B] (verification not implemented)

Time = 9.12 (sec) , antiderivative size = 265, normalized size of antiderivative = 2.60

$$\int (ex)^m (A + Bx^n) (c + dx^n)^2 dx$$

$$= \frac{A c^2 x (ex)^m}{m + 1} + \frac{c x x^n (ex)^m (2 A d + B c) (m^2 + 5 m n + 2 m + 6 n^2 + 5 n + 1)}{m^3 + 6 m^2 n + 3 m^2 + 11 m n^2 + 12 m n + 3 m + 6 n^3 + 11 n^2 + 6 n + 1}$$

$$+ \frac{d x x^{2n} (ex)^m (A d + 2 B c) (m^2 + 4 m n + 2 m + 3 n^2 + 4 n + 1)}{m^3 + 6 m^2 n + 3 m^2 + 11 m n^2 + 12 m n + 3 m + 6 n^3 + 11 n^2 + 6 n + 1}$$

$$+ \frac{B d^2 x x^{3n} (ex)^m (m^2 + 3 m n + 2 m + 2 n^2 + 3 n + 1)}{m^3 + 6 m^2 n + 3 m^2 + 11 m n^2 + 12 m n + 3 m + 6 n^3 + 11 n^2 + 6 n + 1}$$

[In] int((e*x)^m*(A + B*x^n)*(c + d*x^n)^2,x)

[Out] $(A \cdot c^2 \cdot x \cdot (e \cdot x)^m) / (m + 1) + (c \cdot x \cdot x^n \cdot (e \cdot x)^m \cdot (2 \cdot A \cdot d + B \cdot c) \cdot (2 \cdot m + 5 \cdot n + 5 \cdot m \cdot n + m^2 + 6 \cdot n^2 + 1)) / (3 \cdot m + 6 \cdot n + 12 \cdot m \cdot n + 11 \cdot m \cdot n^2 + 6 \cdot m^2 \cdot n + 3 \cdot m^2 + m^3 + 11 \cdot n^2 + 6 \cdot n^3 + 1) + (d \cdot x \cdot x^{2n} \cdot (e \cdot x)^m \cdot (A \cdot d + 2 \cdot B \cdot c) \cdot (2 \cdot m + 4 \cdot n + 4 \cdot m \cdot n + m^2 + 3 \cdot n^2 + 1)) / (3 \cdot m + 6 \cdot n + 12 \cdot m \cdot n + 11 \cdot m \cdot n^2 + 6 \cdot m^2 \cdot n + 3 \cdot m^2 + m^3 + 11 \cdot n^2 + 6 \cdot n^3 + 1) + (B \cdot d^2 \cdot x \cdot x^{3n} \cdot (e \cdot x)^m \cdot (2 \cdot m + 3 \cdot n + 3 \cdot m \cdot n + m^2 + 2 \cdot n^2 + 1)) / (3 \cdot m + 6 \cdot n + 12 \cdot m \cdot n + 11 \cdot m \cdot n^2 + 6 \cdot m^2 \cdot n + 3 \cdot m^2 + m^3 + 11 \cdot n^2 + 6 \cdot n^3 + 1)$

3.12 $\int \frac{(ex)^m (A+Bx^n)(c+dx^n)^2}{a+bx^n} dx$

Optimal result	419
Rubi [A] (verified)	419
Mathematica [A] (verified)	421
Maple [F]	422
Fricas [F]	422
Sympy [C] (verification not implemented)	422
Maxima [F]	423
Giac [F]	424
Mupad [F(-1)]	424

Optimal result

Integrand size = 31, antiderivative size = 185

$$\begin{aligned} & \int \frac{(ex)^m (A + Bx^n) (c + dx^n)^2}{a + bx^n} dx \\ &= \frac{d(2bBc + Abd - aBd)x^{1+n}(ex)^m}{b^2(1+m+n)} + \frac{Bd^2x^{1+2n}(ex)^m}{b(1+m+2n)} \\ &+ \frac{(a^2Bd^2 - abd(2Bc + Ad) + b^2c(Bc + 2Ad))(ex)^{1+m}}{b^3e(1+m)} \\ &+ \frac{(Ab - aB)(bc - ad)^2(ex)^{1+m} \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{bx^n}{a}\right)}{ab^3e(1+m)} \end{aligned}$$

```
[Out] d*(A*b*d-B*a*d+2*B*b*c)*x^(1+n)*(e*x)^m/b^2/(1+m+n)+B*d^2*x^(1+2*n)*(e*x)^m
/b/(1+m+2*n)+(a^2*B*d^2-a*b*d*(A*d+2*B*c)+b^2*c*(2*A*d+B*c))*(e*x)^(1+m)/b^
3/e/(1+m)+(A*b-B*a)*(-a*d+b*c)^2*(e*x)^(1+m)*hypergeom([1, (1+m)/n], [(1+m+n
)/n], -b*x^n/a)/a/b^3/e/(1+m)
```

Rubi [A] (verified)

Time = 0.14 (sec) , antiderivative size = 185, normalized size of antiderivative = 1.00, number of steps used = 7, number of rules used = 4, $\frac{\text{number of rules}}{\text{integrand size}} = 0.129$, Rules used

= {584, 20, 30, 371}

$$\int \frac{(ex)^m (A + Bx^n) (c + dx^n)^2}{a + bx^n} dx$$

$$= \frac{(ex)^{m+1} (a^2 B d^2 - abd(Ad + 2Bc) + b^2 c(2Ad + Bc))}{b^3 e(m+1)}$$

$$+ \frac{(ex)^{m+1} (Ab - aB)(bc - ad)^2 \text{Hypergeometric2F1}\left(1, \frac{m+1}{n}, \frac{m+n+1}{n}, -\frac{bx^n}{a}\right)}{ab^3 e(m+1)}$$

$$+ \frac{dx^{n+1}(ex)^m (-aBd + Abd + 2bBc)}{b^2(m+n+1)} + \frac{Bd^2 x^{2n+1}(ex)^m}{b(m+2n+1)}$$

[In] Int[((e*x)^m*(A + B*x^n)*(c + d*x^n)^2)/(a + b*x^n),x]

[Out] (d*(2*b*B*c + A*b*d - a*B*d)*x^(1 + n)*(e*x)^m)/(b^2*(1 + m + n)) + (B*d^2*x^(1 + 2*n)*(e*x)^m)/(b*(1 + m + 2*n)) + ((a^2*B*d^2 - a*b*d*(2*B*c + A*d) + b^2*c*(B*c + 2*A*d))*(e*x)^(1 + m))/(b^3*e*(1 + m)) + ((A*b - a*B)*(b*c - a*d)^2*(e*x)^(1 + m)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -(b*x^n)/a])/(a*b^3*e*(1 + m))

Rule 20

Int[(u_.)*((a_.)*(v_))^(m_.)*((b_.)*(v_))^(n_.), x_Symbol] := Dist[b^IntPart[n]*(b*v)^FracPart[n]/(a^IntPart[n]*(a*v)^FracPart[n]), Int[u*(a*v)^(m+n), x], x] /; FreeQ[{a, b, m, n}, x] && !IntegerQ[m] && !IntegerQ[n] && !IntegerQ[m+n]

Rule 30

Int[(x_)^(m_.), x_Symbol] := Simp[x^(m+1)/(m+1), x] /; FreeQ[m, x] && NeQ[m, -1]

Rule 371

Int[((c_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_), x_Symbol] := Simp[a^p*((c*x)^(m+1)/(c*(m+1)))*Hypergeometric2F1[-p, (m+1)/n, (m+1)/n+1, (-b)*(x^n/a)], x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILtQ[p, 0] || GtQ[a, 0])

Rule 584

Int[((g_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_.)*((c_) + (d_.)*(x_)^(n_))^(q_.)*((e_) + (f_.)*(x_)^(n_))^(r_.), x_Symbol] := Int[ExpandIntegrand[(g*x)^m*(a + b*x^n)^p*(c + d*x^n)^q*(e + f*x^n)^r, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n}, x] && IGtQ[p, -2] && IGtQ[q, 0] && IGtQ[r, 0]

Rubi steps

$$\begin{aligned}
 \text{integral} &= \int \left(\frac{(a^2 B d^2 - a b d(2 B c + A d) + b^2 c(B c + 2 A d)) (e x)^m}{b^3} \right. \\
 &\quad \left. + \frac{d(2 b B c + A b d - a B d) x^n (e x)^m}{b^2} + \frac{B d^2 x^{2 n} (e x)^m}{b} \right. \\
 &\quad \left. + \frac{(A b - a B)(b c - a d)^2 (e x)^m}{b^3 (a + b x^n)} \right) dx \\
 &= \frac{(a^2 B d^2 - a b d(2 B c + A d) + b^2 c(B c + 2 A d)) (e x)^{1+m}}{b^3 e(1+m)} + \frac{(B d^2) \int x^{2 n} (e x)^m dx}{b} \\
 &\quad + \frac{((A b - a B)(b c - a d)^2) \int \frac{(e x)^m}{a + b x^n} dx}{b^3} + \frac{(d(2 b B c + A b d - a B d)) \int x^n (e x)^m dx}{b^2} \\
 &= \frac{(a^2 B d^2 - a b d(2 B c + A d) + b^2 c(B c + 2 A d)) (e x)^{1+m}}{b^3 e(1+m)} \\
 &\quad + \frac{(A b - a B)(b c - a d)^2 (e x)^{1+m} {}_2F_1\left(1, \frac{1+m}{n}; \frac{1+m+n}{n}; -\frac{b x^n}{a}\right)}{a b^3 e(1+m)} \\
 &\quad + \frac{(B d^2 x^{-m} (e x)^m) \int x^{m+2 n} dx}{b} + \frac{(d(2 b B c + A b d - a B d) x^{-m} (e x)^m) \int x^{m+n} dx}{b^2} \\
 &= \frac{d(2 b B c + A b d - a B d) x^{1+n} (e x)^m}{b^2 (1+m+n)} + \frac{B d^2 x^{1+2 n} (e x)^m}{b(1+m+2 n)} \\
 &\quad + \frac{(a^2 B d^2 - a b d(2 B c + A d) + b^2 c(B c + 2 A d)) (e x)^{1+m}}{b^3 e(1+m)} \\
 &\quad + \frac{(A b - a B)(b c - a d)^2 (e x)^{1+m} {}_2F_1\left(1, \frac{1+m}{n}; \frac{1+m+n}{n}; -\frac{b x^n}{a}\right)}{a b^3 e(1+m)}
 \end{aligned}$$

Mathematica [A] (verified)

Time = 0.40 (sec) , antiderivative size = 153, normalized size of antiderivative = 0.83

$$\int \frac{(e x)^m (A + B x^n) (c + d x^n)^2}{a + b x^n} dx$$

$$= \frac{x(e x)^m \left(\frac{a^2 B d^2 - a b d(2 B c + A d) + b^2 c(B c + 2 A d)}{1+m} + \frac{b d(2 b B c + A b d - a B d) x^n}{1+m+n} + \frac{b^2 B d^2 x^{2 n}}{1+m+2 n} + \frac{(A b - a B)(b c - a d)^2 \text{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{b x^n}{a}\right)}{a(1+m)} \right)}{b^3}$$

[In] Integrate[((e*x)^m*(A + B*x^n)*(c + d*x^n)^2)/(a + b*x^n),x]

[Out] (x*(e*x)^m*((a^2*B*d^2 - a*b*d*(2*B*c + A*d) + b^2*c*(B*c + 2*A*d))/(1 + m) + (b*d*(2*b*B*c + A*b*d - a*B*d)*x^n)/(1 + m + n) + (b^2*B*d^2*x^(2*n))/(1 + m + 2*n) + ((A*b - a*B)*(b*c - a*d)^2*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -(b*x^n)/a]))/(a*(1 + m)))/b^3

Maple [F]

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)^2}{a + bx^n} dx$$

[In] int((e*x)^m*(A+B*x^n)*(c+d*x^n)^2/(a+b*x^n),x)

[Out] int((e*x)^m*(A+B*x^n)*(c+d*x^n)^2/(a+b*x^n),x)

Fricas [F]

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)^2}{a + bx^n} dx = \int \frac{(Bx^n + A)(dx^n + c)^2(ex)^m}{bx^n + a} dx$$

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

[Out] integral((B*d^2*x^(3*n) + A*c^2 + (2*B*c*d + A*d^2)*x^(2*n) + (B*c^2 + 2*A*c*d)*x^n)*(e*x)^m/(b*x^n + a), x)

Sympy [C] (verification not implemented)

Result contains complex when optimal does not.

Time = 9.55 (sec) , antiderivative size = 1402, normalized size of antiderivative = 7.58

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)^2}{a + bx^n} dx = \text{Too large to display}$$

[In] integrate((e*x)**m*(A+B*x**n)*(c+d*x**n)**2/(a+b*x**n),x)

[Out] A*a**(m/n + 1/n)*a**(-m/n - 1 - 1/n)*c**2*e**m*x**(m + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 1/n)*gamma(m/n + 1/n)/(n**2*gamma(m/n + 1 + 1/n)) + A*a**(m/n + 1/n)*a**(-m/n - 1 - 1/n)*c**2*e**m*x**(m + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 1/n)*gamma(m/n + 1/n)/(n**2*gamma(m/n + 1 + 1/n)) + A*a**(-m/n - 3 - 1/n)*a**(m/n + 2 + 1/n)*d**2*e**m*x**(m + 2*n + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 2 + 1/n)*gamma(m/n + 2 + 1/n)/(n**2*gamma(m/n + 3 + 1/n)) + 2*A*a**(-m/n - 3 - 1/n)*a**(m/n + 2 + 1/n)*d**2*e**m*x**(m + 2*n + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 2 + 1/n)*gamma(m/n + 2 + 1/n)/(n*gamma(m/n + 3 + 1/n)) + A*a**(-m/n - 3 - 1/n)*a**(m/n + 2 + 1/n)*d**2*e**m*x**(m + 2*n + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 2 + 1/n)*gamma(m/n + 2 + 1/n)/(n**2*gamma(m/n + 3 + 1/n)) + 2*A*a**(-m/n - 2 - 1/n)*a**(m/n + 1 + 1/n)*c*d*e**m*x**(m + n + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 1 + 1/n)*gamma(m/n + 1 + 1/n)/(n**2*gamma(m/n + 2 + 1/n)) + 2*A*a**(-m/n - 2 - 1/n)*a**(m/n + 1 + 1/n)*c*d*e**m*x**(m + n + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 1 + 1/n)*gamma

$(m/n + 1 + 1/n)/(n \cdot \gamma(m/n + 2 + 1/n)) + 2Aa^{-(m/n - 2 - 1/n)}a^{(m/n + 1 + 1/n)}c \cdot d \cdot e^{m \cdot x^{n+1}} \cdot \text{lerchphi}(b \cdot x^{n+1} \cdot \exp_{\text{polar}}(I \cdot \pi)/a, 1, m/n + 1 + 1/n) \cdot \gamma(m/n + 1 + 1/n)/(n^2 \cdot \gamma(m/n + 2 + 1/n)) + B \cdot a^{-(m/n - 4 - 1/n)}a^{(m/n + 3 + 1/n)}d^2 \cdot e^{m \cdot x^{n+1}} \cdot \text{lerchphi}(b \cdot x^{n+1} \cdot \exp_{\text{polar}}(I \cdot \pi)/a, 1, m/n + 3 + 1/n) \cdot \gamma(m/n + 3 + 1/n)/(n^2 \cdot \gamma(m/n + 4 + 1/n)) + 3B \cdot a^{-(m/n - 4 - 1/n)}a^{(m/n + 3 + 1/n)}d^2 \cdot e^{m \cdot x^{n+1}} \cdot \text{lerchphi}(b \cdot x^{n+1} \cdot \exp_{\text{polar}}(I \cdot \pi)/a, 1, m/n + 3 + 1/n) \cdot \gamma(m/n + 3 + 1/n)/(n \cdot \gamma(m/n + 4 + 1/n)) + B \cdot a^{-(m/n - 4 - 1/n)}a^{(m/n + 3 + 1/n)}d^2 \cdot e^{m \cdot x^{n+1}} \cdot \text{lerchphi}(b \cdot x^{n+1} \cdot \exp_{\text{polar}}(I \cdot \pi)/a, 1, m/n + 3 + 1/n) \cdot \gamma(m/n + 3 + 1/n)/(n^2 \cdot \gamma(m/n + 4 + 1/n)) + 2B \cdot a^{-(m/n - 3 - 1/n)}a^{(m/n + 2 + 1/n)}c \cdot d \cdot e^{m \cdot x^{n+1}} \cdot \text{lerchphi}(b \cdot x^{n+1} \cdot \exp_{\text{polar}}(I \cdot \pi)/a, 1, m/n + 2 + 1/n) \cdot \gamma(m/n + 2 + 1/n)/(n^2 \cdot \gamma(m/n + 3 + 1/n)) + 4B \cdot a^{-(m/n - 3 - 1/n)}a^{(m/n + 2 + 1/n)}c \cdot d \cdot e^{m \cdot x^{n+1}} \cdot \text{lerchphi}(b \cdot x^{n+1} \cdot \exp_{\text{polar}}(I \cdot \pi)/a, 1, m/n + 2 + 1/n) \cdot \gamma(m/n + 2 + 1/n)/(n \cdot \gamma(m/n + 3 + 1/n)) + 2B \cdot a^{-(m/n - 3 - 1/n)}a^{(m/n + 2 + 1/n)}c \cdot d \cdot e^{m \cdot x^{n+1}} \cdot \text{lerchphi}(b \cdot x^{n+1} \cdot \exp_{\text{polar}}(I \cdot \pi)/a, 1, m/n + 2 + 1/n) \cdot \gamma(m/n + 2 + 1/n)/(n^2 \cdot \gamma(m/n + 3 + 1/n)) + B \cdot a^{-(m/n - 2 - 1/n)}a^{(m/n + 1 + 1/n)}c^2 \cdot e^{m \cdot x^{n+1}} \cdot \text{lerchphi}(b \cdot x^{n+1} \cdot \exp_{\text{polar}}(I \cdot \pi)/a, 1, m/n + 1 + 1/n) \cdot \gamma(m/n + 1 + 1/n)/(n^2 \cdot \gamma(m/n + 2 + 1/n)) + B \cdot a^{-(m/n - 2 - 1/n)}a^{(m/n + 1 + 1/n)}c^2 \cdot e^{m \cdot x^{n+1}} \cdot \text{lerchphi}(b \cdot x^{n+1} \cdot \exp_{\text{polar}}(I \cdot \pi)/a, 1, m/n + 1 + 1/n) \cdot \gamma(m/n + 1 + 1/n)/(n \cdot \gamma(m/n + 2 + 1/n)) + B \cdot a^{-(m/n - 2 - 1/n)}a^{(m/n + 1 + 1/n)}c^2 \cdot e^{m \cdot x^{n+1}} \cdot \text{lerchphi}(b \cdot x^{n+1} \cdot \exp_{\text{polar}}(I \cdot \pi)/a, 1, m/n + 1 + 1/n) \cdot \gamma(m/n + 1 + 1/n)/(n^2 \cdot \gamma(m/n + 2 + 1/n))$

Maxima [F]

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)^2}{a + bx^n} dx = \int \frac{(Bx^n + A)(dx^n + c)^2 (ex)^m}{bx^n + a} dx$$

[In] integrate((e*x)^m*(A+B*x^n)*(c+d*x^n)^2/(a+b*x^n),x, algorithm="maxima")

[Out] ((b^3*c^2*e^m - 2*a*b^2*c*d*e^m + a^2*b*d^2*e^m)*A - (a*b^2*c^2*e^m - 2*a^2*b*c*d*e^m + a^3*d^2*e^m)*B)*integrate(x^m/(b^4*x^n + a*b^3), x) + ((m^2 + m*(n + 2) + n + 1)*B*b^2*d^2*e^m*x*e^(m*log(x) + 2*n*log(x)) + ((2*(m^2 + m*(3*n + 2) + 2*n^2 + 3*n + 1)*b^2*c*d*e^m - (m^2 + m*(3*n + 2) + 2*n^2 + 3*n + 1)*a*b*d^2*e^m)*A + ((m^2 + m*(3*n + 2) + 2*n^2 + 3*n + 1)*b^2*c^2*e^m - 2*(m^2 + m*(3*n + 2) + 2*n^2 + 3*n + 1)*a*b*c*d*e^m + (m^2 + m*(3*n + 2) + 2*n^2 + 3*n + 1)*a^2*d^2*e^m)*B)*x*x^m + ((m^2 + 2*m*(n + 1) + 2*n + 1)*A*b^2*d^2*e^m + (2*(m^2 + 2*m*(n + 1) + 2*n + 1)*b^2*c*d*e^m - (m^2 + 2*m*(n + 1) + 2*n + 1)*a*b*d^2*e^m)*B)*x*x^m)/((m^3 + 3*m^2*(n + 1) + (2*n^2 + 6*n + 3)*m + 2*n^2 + 3*n + 1)*b^3)

Giac [F]

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)^2}{a + bx^n} dx = \int \frac{(Bx^n + A)(dx^n + c)^2 (ex)^m}{bx^n + a} dx$$

[In] integrate((e*x)^m*(A+B*x^n)*(c+d*x^n)^2/(a+b*x^n),x, algorithm="giac")

[Out] integrate((B*x^n + A)*(d*x^n + c)^2*(e*x)^m/(b*x^n + a), x)

Mupad [F(-1)]

Timed out.

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)^2}{a + bx^n} dx = \int \frac{(ex)^m (A + Bx^n)(c + dx^n)^2}{a + bx^n} dx$$

[In] int(((e*x)^m*(A + B*x^n)*(c + d*x^n)^2)/(a + b*x^n),x)

[Out] int(((e*x)^m*(A + B*x^n)*(c + d*x^n)^2)/(a + b*x^n), x)

3.13 $\int \frac{(ex)^m (A+Bx^n)(c+dx^n)^2}{(a+bx^n)^2} dx$

Optimal result	425
Rubi [A] (verified)	425
Mathematica [A] (verified)	428
Maple [F]	428
Fricas [F]	429
Sympy [F]	429
Maxima [F]	429
Giac [F]	430
Mupad [F(-1)]	430

Optimal result

Integrand size = 31, antiderivative size = 268

$$\int \frac{(ex)^m (A + Bx^n) (c + dx^n)^2}{(a + bx^n)^2} dx = -\frac{d^2(Ab(1+m+n) - aB(1+m+2n))x^{1+n}(ex)^m}{ab^2n(1+m+n)} - \frac{d(Ab(2bc(1+m) - ad(1+m+n)) - aB(2bc(1+m+n) - ad(1+m+2n)))(ex)^{1+m}}{ab^3e(1+m)n} + \frac{(Ab - aB)(ex)^{1+m} (c + dx^n)^2}{aben(a + bx^n)} - \frac{(bc - ad)(Ab(bc(1+m-n) - ad(1+m+n)) - aB(bc(1+m) - ad(1+m+2n)))(ex)^{1+m}}{a^2b^3e(1+m)n} \text{ Hypergeo}$$

```
[Out] -d^2*(A*b*(1+m+n)-a*B*(1+m+2*n))*x^(1+n)*(e*x)^m/a/b^2/n/(1+m+n)-d*(A*b*(2*
b*c*(1+m)-a*d*(1+m+n))-a*B*(2*b*c*(1+m+n)-a*d*(1+m+2*n))*(e*x)^(1+m)/a/b^3
/e/(1+m)/n+(A*b-B*a)*(e*x)^(1+m)*(c+d*x^n)^2/a/b/e/n/(a+b*x^n)-(-a*d+b*c)*(
A*b*(b*c*(1+m-n)-a*d*(1+m+n))-a*B*(b*c*(1+m)-a*d*(1+m+2*n)))*(e*x)^(1+m)*hy
pergeom([1, (1+m)/n], [(1+m+n)/n], -b*x^n/a)/a^2/b^3/e/(1+m)/n
```

Rubi [A] (verified)

Time = 0.41 (sec) , antiderivative size = 268, normalized size of antiderivative = 1.00, number of steps used = 6, number of rules used = 5, $\frac{\text{number of rules}}{\text{integrand size}} = 0.161$, Rules used

= {608, 584, 20, 30, 371}

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)^2}{(a + bx^n)^2} dx =$$

$$\frac{(ex)^{m+1}(bc - ad) \operatorname{Hypergeometric2F1}\left(1, \frac{m+1}{n}, \frac{m+n+1}{n}, -\frac{bx^n}{a}\right) (Ab(bc(m - n + 1) - ad(m + n + 1)) - aB)}{a^2 b^3 e(m + 1)n}$$

$$- \frac{d(ex)^{m+1}(Ab(2bc(m + 1) - ad(m + n + 1)) - aB(2bc(m + n + 1) - ad(m + 2n + 1)))}{ab^3 e(m + 1)n}$$

$$- \frac{d^2 x^{n+1}(ex)^m (Ab(m + n + 1) - aB(m + 2n + 1))}{ab^2 n(m + n + 1)} + \frac{(ex)^{m+1}(Ab - aB)(c + dx^n)^2}{aben(a + bx^n)}$$

[In] Int[((e*x)^m*(A + B*x^n)*(c + d*x^n)^2)/(a + b*x^n)^2,x]

[Out] -((d^2*(A*b*(1 + m + n) - a*B*(1 + m + 2*n))*x^(1 + n)*(e*x)^m)/(a*b^2*n*(1 + m + n))) - (d*(A*b*(2*b*c*(1 + m) - a*d*(1 + m + n)) - a*B*(2*b*c*(1 + m + n) - a*d*(1 + m + 2*n)))*(e*x)^(1 + m))/(a*b^3*e*(1 + m)*n) + ((A*b - a*B)*(e*x)^(1 + m)*(c + d*x^n)^2)/(a*b*e*n*(a + b*x^n)) - ((b*c - a*d)*(A*b*(b*c*(1 + m - n) - a*d*(1 + m + n)) - a*B*(b*c*(1 + m) - a*d*(1 + m + 2*n)))*(e*x)^(1 + m)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -(b*x^n)/a])/(a^2*b^3*e*(1 + m)*n)

Rule 20

Int[(u_.)*((a_.)*(v_))^(m_.)*((b_.)*(v_))^(n_), x_Symbol] := Dist[b^IntPart[n]*((b*v)^FracPart[n]/(a^IntPart[n]*(a*v)^FracPart[n])), Int[u*(a*v)^(m + n), x], x] /; FreeQ[{a, b, m, n}, x] && !IntegerQ[m] && !IntegerQ[n] && !IntegerQ[m + n]

Rule 30

Int[(x_)^(m_.), x_Symbol] := Simp[x^(m + 1)/(m + 1), x] /; FreeQ[m, x] && NeQ[m, -1]

Rule 371

Int[((c_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_), x_Symbol] := Simp[a^p*((c*x)^(m + 1)/(c*(m + 1)))*Hypergeometric2F1[-p, (m + 1)/n, (m + 1)/n + 1, (-b)*(x^n/a)], x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILtQ[p, 0] || GtQ[a, 0])

Rule 584

Int[((g_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_.)*((c_) + (d_.)*(x_)^(n_))^(q_.)*((e_) + (f_.)*(x_)^(n_))^(r_.), x_Symbol] := Int[ExpandIntegrand[(g*x)^m*(a + b*x^n)^p*(c + d*x^n)^q*(e + f*x^n)^r, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n}, x] && IGtQ[p, -2] && IGtQ[q, 0] && IGtQ[r, 0]

Rule 608

```

Int[((g_.)*(x_))^(m_.)*((a_.) + (b_.)*(x_)^(n_))^(p_.)*((c_.) + (d_.)*(x_)^(n_))^(q_.)*((e_.) + (f_.)*(x_)^(n_)), x_Symbol] :> Simp[(-(b*e - a*f))*(g*x)^(m + 1)*(a + b*x^n)^(p + 1)*((c + d*x^n)^q/(a*b*g*n*(p + 1))), x] + Dist[1/(a*b*n*(p + 1)), Int[(g*x)^m*(a + b*x^n)^(p + 1)*(c + d*x^n)^(q - 1)*Simp[c*(b*e*n*(p + 1) + (b*e - a*f)*(m + 1)) + d*(b*e*n*(p + 1) + (b*e - a*f)*(m + n*q + 1))*x^n, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n}, x] && LtQ[p, -1] && GtQ[q, 0] && !(EqQ[q, 1] && SimplerQ[b*c - a*d, b*e - a*f])

```

Rubi steps

$$\begin{aligned}
\text{integral} &= \frac{(Ab - aB)(ex)^{1+m} (c + dx^n)^2}{aben (a + bx^n)} \\
&\quad - \frac{\int \frac{(ex)^m (c + dx^n) (-c(aB(1+m) - Ab(1+m-n)) + d(Ab(1+m+n) - aB(1+m+2n))x^n)}{a + bx^n} dx}{abn} \\
&= \frac{(Ab - aB)(ex)^{1+m} (c + dx^n)^2}{aben (a + bx^n)} \\
&\quad - \frac{\int \left(\frac{d(Ab(2bc(1+m) - ad(1+m+n)) - aB(2bc(1+m+n) - ad(1+m+2n))}{b^2} (ex)^m + \frac{d^2(Ab(1+m+n) - aB(1+m+2n))x^n (ex)^m}{b} \right) dx}{abn} \\
&= - \frac{d(Ab(2bc(1+m) - ad(1+m+n)) - aB(2bc(1+m+n) - ad(1+m+2n)))(ex)^{1+m}}{ab^3e(1+m)n} \\
&\quad + \frac{(Ab - aB)(ex)^{1+m} (c + dx^n)^2}{aben (a + bx^n)} - \frac{(d^2(Ab(1+m+n) - aB(1+m+2n))) \int x^n (ex)^m dx}{ab^2n} \\
&\quad - \frac{((bc - ad)(Ab(bc(1+m-n) - ad(1+m+n)) - aB(bc(1+m) - ad(1+m+2n)))) \int \frac{(ex)^m}{a + bx^n} dx}{ab^3n} \\
&= - \frac{d(Ab(2bc(1+m) - ad(1+m+n)) - aB(2bc(1+m+n) - ad(1+m+2n)))(ex)^{1+m}}{ab^3e(1+m)n} \\
&\quad + \frac{(Ab - aB)(ex)^{1+m} (c + dx^n)^2}{aben (a + bx^n)} \\
&\quad - \frac{(bc - ad)(Ab(bc(1+m-n) - ad(1+m+n)) - aB(bc(1+m) - ad(1+m+2n)))(ex)^{1+m}}{a^2b^3e(1+m)n} \\
&\quad - \frac{(d^2(Ab(1+m+n) - aB(1+m+2n))x^{-m} (ex)^m) \int x^{m+n} dx}{ab^2n}
\end{aligned}$$

$$\begin{aligned}
&= -\frac{d^2(Ab(1+m+n) - aB(1+m+2n))x^{1+n}(ex)^m}{ab^2n(1+m+n)} \\
&\quad - \frac{d(Ab(2bc(1+m) - ad(1+m+n)) - aB(2bc(1+m+n) - ad(1+m+2n)))(ex)^{1+m}}{ab^3e(1+m)n} \\
&\quad + \frac{(Ab - aB)(ex)^{1+m}(c + dx^n)^2}{aben(a + bx^n)} \\
&\quad - \frac{(bc - ad)(Ab(bc(1+m-n) - ad(1+m+n)) - aB(bc(1+m) - ad(1+m+2n)))(ex)^{1+m} {}_2F_1}{a^2b^3e(1+m)n}
\end{aligned}$$

Mathematica [A] (verified)

Time = 0.45 (sec) , antiderivative size = 159, normalized size of antiderivative = 0.59

$$\begin{aligned}
&\int \frac{(ex)^m (A + Bx^n)(c + dx^n)^2}{(a + bx^n)^2} dx \\
&= \frac{x(ex)^m \left(\frac{d(2bBc + Abd - 2aBd)}{1+m} + \frac{bBd^2x^n}{1+m+n} + \frac{(bc-ad)(bBc + 2Abd - 3aBd) \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{bx^n}{a}\right)}{a(1+m)} + \frac{(Ab-aB)(bc-ad)}{a^2} \right)}{b^3}
\end{aligned}$$

[In] Integrate[((e*x)^m*(A + B*x^n)*(c + d*x^n)^2)/(a + b*x^n)^2,x]

[Out] (x*(e*x)^m*((d*(2*b*B*c + A*b*d - 2*a*B*d))/(1 + m) + (b*B*d^2*x^n)/(1 + m + n) + ((b*c - a*d)*(b*B*c + 2*A*b*d - 3*a*B*d)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -((b*x^n)/a)])/(a*(1 + m)) + ((A*b - a*B)*(b*c - a*d)^2*Hypergeometric2F1[2, (1 + m)/n, (1 + m + n)/n, -((b*x^n)/a)]/(a^2*(1 + m)))/b^3

Maple [F]

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)^2}{(a + bx^n)^2} dx$$

[In] int((e*x)^m*(A+B*x^n)*(c+d*x^n)^2/(a+b*x^n)^2,x)

[Out] int((e*x)^m*(A+B*x^n)*(c+d*x^n)^2/(a+b*x^n)^2,x)

Fricas [F]

$$\int \frac{(ex)^m (A + Bx^n) (c + dx^n)^2}{(a + bx^n)^2} dx = \int \frac{(Bx^n + A)(dx^n + c)^2 (ex)^m}{(bx^n + a)^2} dx$$

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

[Out] integral((B*d^2*x^(3*n) + A*c^2 + (2*B*c*d + A*d^2)*x^(2*n) + (B*c^2 + 2*A*c*d)*x^n)*(e*x)^m/(b^2*x^(2*n) + 2*a*b*x^n + a^2), x)

Sympy [F]

$$\int \frac{(ex)^m (A + Bx^n) (c + dx^n)^2}{(a + bx^n)^2} dx = \int \frac{(ex)^m (A + Bx^n) (c + dx^n)^2}{(a + bx^n)^2} dx$$

[In] integrate((e*x)**m*(A+B*x**n)*(c+d*x**n)**2/(a+b*x**n)**2,x)

[Out] Integral((e*x)**m*(A + B*x**n)*(c + d*x**n)**2/(a + b*x**n)**2, x)

Maxima [F]

$$\int \frac{(ex)^m (A + Bx^n) (c + dx^n)^2}{(a + bx^n)^2} dx = \int \frac{(Bx^n + A)(dx^n + c)^2 (ex)^m}{(bx^n + a)^2} dx$$

[In] integrate((e*x)^m*(A+B*x^n)*(c+d*x^n)^2/(a+b*x^n)^2,x, algorithm="maxima")

[Out] -((a^2*b*d^2*e^m*(m + n + 1) + b^3*c^2*e^m*(m - n + 1) - 2*a*b^2*c*d*e^m*(m + 1))*A - (a^3*d^2*e^m*(m + 2*n + 1) - 2*a^2*b*c*d*e^m*(m + n + 1) + a*b^2*c^2*e^m*(m + 1))*B)*integrate(x^m/(a*b^4*n*x^n + a^2*b^3*n), x) + ((m*n + n)*B*a*b^2*d^2*e^m*x*e^(m*log(x) + 2*n*log(x)) + ((m^2 + m*(n + 2) + n + 1)*b^3*c^2*e^m - 2*(m^2 + m*(n + 2) + n + 1)*a*b^2*c*d*e^m + (m^2 + 2*m*(n + 1) + n^2 + 2*n + 1)*a^2*b*d^2*e^m)*A - ((m^2 + m*(n + 2) + n + 1)*a*b^2*c^2*e^m - 2*(m^2 + 2*m*(n + 1) + n^2 + 2*n + 1)*a^2*b*c*d*e^m + (m^2 + m*(3*n + 2) + 2*n^2 + 3*n + 1)*a^3*d^2*e^m)*B)*x*x^m + ((m*n + n^2 + n)*A*a*b^2*d^2*e^m + (2*(m*n + n^2 + n)*a*b^2*c*d*e^m - (m*n + 2*n^2 + n)*a^2*b*d^2*e^m)*B)*x*e^(m*log(x) + n*log(x))/((m^2*n + (n^2 + 2*n)*m + n^2 + n)*a*b^4*x^n + (m^2*n + (n^2 + 2*n)*m + n^2 + n)*a^2*b^3)

Giac [F]

$$\int \frac{(ex)^m (A + Bx^n) (c + dx^n)^2}{(a + bx^n)^2} dx = \int \frac{(Bx^n + A)(dx^n + c)^2 (ex)^m}{(bx^n + a)^2} dx$$

[In] integrate((e*x)^m*(A+B*x^n)*(c+d*x^n)^2/(a+b*x^n)^2,x, algorithm="giac")

[Out] integrate((B*x^n + A)*(d*x^n + c)^2*(e*x)^m/(b*x^n + a)^2, x)

Mupad [F(-1)]

Timed out.

$$\int \frac{(ex)^m (A + Bx^n) (c + dx^n)^2}{(a + bx^n)^2} dx = \int \frac{(ex)^m (A + Bx^n) (c + dx^n)^2}{(a + bx^n)^2} dx$$

[In] int(((e*x)^m*(A + B*x^n)*(c + d*x^n)^2)/(a + b*x^n)^2,x)

[Out] int(((e*x)^m*(A + B*x^n)*(c + d*x^n)^2)/(a + b*x^n)^2, x)

$$3.14 \quad \int \frac{(ex)^m (A+Bx^n)(c+dx^n)^2}{(a+bx^n)^3} dx$$

Optimal result	431
Rubi [A] (verified)	432
Mathematica [A] (verified)	434
Maple [F]	434
Fricas [F]	434
Sympy [F(-1)]	435
Maxima [F]	435
Giac [F]	435
Mupad [F(-1)]	436

Optimal result

Integrand size = 31, antiderivative size = 322

$$\begin{aligned} & \int \frac{(ex)^m (A+Bx^n)(c+dx^n)^2}{(a+bx^n)^3} dx \\ &= \frac{d(bc(1+m) - ad(1+m+n))(Ab(1+m) - aB(1+m+2n))(ex)^{1+m}}{2a^2b^3e(1+m)n^2} \\ & \quad + \frac{(Ab - aB)(ex)^{1+m} (c+dx^n)^2}{2abn(a+bx^n)^2} \\ & \quad + \frac{(bc - ad)(ex)^{1+m} (c(aB(1+m) - Ab(1+m-2n)) - d(Ab(1+m) - aB(1+m+2n))x^n)}{2a^2b^2en^2(a+bx^n)} \\ & \quad + \frac{(bc(aB(1+m) - Ab(1+m-2n))(ad(1+m) - bc(1+m-n)) - ad(bc(1+m) - ad(1+m+n))(A}}{2a^3b^3e(1+m)n^2} \end{aligned}$$

```
[Out] 1/2*d*(b*c*(1+m)-a*d*(1+m+n))*(A*b*(1+m)-a*B*(1+m+2*n))*(e*x)^(1+m)/a^2/b^3
/e/(1+m)/n^2+1/2*(A*b-B*a)*(e*x)^(1+m)*(c+d*x^n)^2/a/b/e/n/(a+b*x^n)^2+1/2*
(-a*d+b*c)*(e*x)^(1+m)*(c*(a*B*(1+m)-A*b*(1+m-2*n))-d*(A*b*(1+m)-a*B*(1+m+2
*n))*x^n)/a^2/b^2/e/n^2/(a+b*x^n)+1/2*(b*c*(a*B*(1+m)-A*b*(1+m-2*n))*(a*d*(
1+m)-b*c*(1+m-n))-a*d*(b*c*(1+m)-a*d*(1+m+n))*(A*b*(1+m)-a*B*(1+m+2*n))*(e
*x)^(1+m)*hypergeom([1, (1+m)/n], [(1+m+n)/n], -b*x^n/a)/a^3/b^3/e/(1+m)/n^2
```

Rubi [A] (verified)

Time = 0.33 (sec) , antiderivative size = 322, normalized size of antiderivative = 1.00,
 number of steps used = 4, number of rules used = 3, $\frac{\text{number of rules}}{\text{integrand size}} = 0.097$, Rules used
 = {608, 470, 371}

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)^2}{(a + bx^n)^3} dx$$

$$= \frac{(ex)^{m+1} \text{Hypergeometric2F1}\left(1, \frac{m+1}{n}, \frac{m+n+1}{n}, -\frac{bx^n}{a}\right) (bc(aB(m+1) - Ab(m-2n+1))(ad(m+1) - bc(m+1)) + d(ex)^{m+1}(Ab(m+1) - aB(m+2n+1))(bc(m+1) - ad(m+n+1)) + (ex)^{m+1}(bc - ad)(c(aB(m+1) - Ab(m-2n+1)) - dx^n(Ab(m+1) - aB(m+2n+1))))}{2a^3b^3e(m+1)n^2} + \frac{d(ex)^{m+1}(Ab(m+1) - aB(m+2n+1))(bc(m+1) - ad(m+n+1))}{2a^2b^3e(m+1)n^2} + \frac{(ex)^{m+1}(bc - ad)(c(aB(m+1) - Ab(m-2n+1)) - dx^n(Ab(m+1) - aB(m+2n+1)))}{2a^2b^2en^2(a + bx^n)} + \frac{(ex)^{m+1}(Ab - aB)(c + dx^n)^2}{2aben(a + bx^n)^2}$$

[In] Int[((e*x)^m*(A + B*x^n)*(c + d*x^n)^2)/(a + b*x^n)^3,x]

[Out] (d*(b*c*(1 + m) - a*d*(1 + m + n))*(A*b*(1 + m) - a*B*(1 + m + 2*n))*(e*x)^(1 + m))/(2*a^2*b^3*e*(1 + m)*n^2) + ((A*b - a*B)*(e*x)^(1 + m)*(c + d*x^n)^2)/(2*a*b*e*n*(a + b*x^n)^2) + ((b*c - a*d)*(e*x)^(1 + m)*(c*(a*B*(1 + m) - A*b*(1 + m - 2*n)) - d*(A*b*(1 + m) - a*B*(1 + m + 2*n))*x^n))/(2*a^2*b^2*e*n^2*(a + b*x^n)) + ((b*c*(a*B*(1 + m) - A*b*(1 + m - 2*n))*(a*d*(1 + m) - b*c*(1 + m - n)) - a*d*(b*c*(1 + m) - a*d*(1 + m + n))*(A*b*(1 + m) - a*B*(1 + m + 2*n)))*(e*x)^(1 + m)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -(b*x^n)/a])/(2*a^3*b^3*e*(1 + m)*n^2)

Rule 371

Int[((c_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_), x_Symbol] := Simp[a^p*((c*x)^(m + 1)/(c*(m + 1)))*Hypergeometric2F1[-p, (m + 1)/n, (m + 1)/n + 1, (-b)*(x^n/a)], x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILtQ[p, 0] || GtQ[a, 0])

Rule 470

Int[((e_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_.)*((c_) + (d_.)*(x_)^(n_)), x_Symbol] := Simp[d*(e*x)^(m + 1)*((a + b*x^n)^(p + 1)/(b*e*(m + n*(p + 1) + 1))), x] - Dist[(a*d*(m + 1) - b*c*(m + n*(p + 1) + 1))/(b*(m + n*(p + 1) + 1)), Int[(e*x)^m*(a + b*x^n)^p, x], x] /; FreeQ[{a, b, c, d, e, m, n, p}, x] && NeQ[b*c - a*d, 0] && NeQ[m + n*(p + 1) + 1, 0]

Rule 608


```

Int[((g_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_)*((c_) + (d_.)*(x_)^(n_))^(q_.)*((e_) + (f_.)*(x_)^(n_)), x_Symbol] := Simp[(-b*e - a*f)*(g*x)^(m + 1)*(a + b*x^n)^(p + 1)*((c + d*x^n)^q/(a*b*g*n*(p + 1))), x] + Dist[1/(a*b*n*(p + 1)), Int[(g*x)^m*(a + b*x^n)^(p + 1)*(c + d*x^n)^(q - 1)*Simp[c*(b*e*n*(p + 1) + (b*e - a*f)*(m + 1)) + d*(b*e*n*(p + 1) + (b*e - a*f)*(m + n*q + 1))*x^n, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n}, x] && LtQ[p, -1] && GtQ[q, 0] && !(EqQ[q, 1] && SimplerQ[b*c - a*d, b*e - a*f])

```

Rubi steps

$$\begin{aligned}
\text{integral} &= \frac{(Ab - aB)(ex)^{1+m} (c + dx^n)^2}{2abn (a + bx^n)^2} \\
&\quad - \frac{\int \frac{(ex)^m (c+dx^n)(-c(aB(1+m)-Ab(1+m-2n))+d(Ab(1+m)-aB(1+m+2n))x^n)}{(a+bx^n)^2} dx}{2abn} \\
&= \frac{(Ab - aB)(ex)^{1+m} (c + dx^n)^2}{2abn (a + bx^n)^2} \\
&\quad + \frac{(bc - ad)(ex)^{1+m} (c(aB(1 + m) - Ab(1 + m - 2n)) - d(Ab(1 + m) - aB(1 + m + 2n))x^n)}{2a^2b^2en^2 (a + bx^n)} \\
&\quad + \frac{\int \frac{(ex)^m (c(aB(1+m)-Ab(1+m-2n))(ad(1+m)-bc(1+m-n))+d(bc(1+m)-ad(1+m+n))(Ab(1+m)-aB(1+m+2n))x^n}{a+bx^n} dx}{2a^2b^2n^2} \\
&= \frac{d(bc(1 + m) - ad(1 + m + n))(Ab(1 + m) - aB(1 + m + 2n))(ex)^{1+m}}{2a^2b^3e(1 + m)n^2} \\
&\quad + \frac{(Ab - aB)(ex)^{1+m} (c + dx^n)^2}{2abn (a + bx^n)^2} \\
&\quad + \frac{(bc - ad)(ex)^{1+m} (c(aB(1 + m) - Ab(1 + m - 2n)) - d(Ab(1 + m) - aB(1 + m + 2n))x^n)}{2a^2b^2en^2 (a + bx^n)} \\
&\quad + \frac{(c(aB(1 + m) - Ab(1 + m - 2n))(ad(1 + m) - bc(1 + m - n)) - \frac{ad(bc(1+m)-ad(1+m+n))(Ab(1+m)}{b}}{2a^2b^2n^2} \\
&= \frac{d(bc(1 + m) - ad(1 + m + n))(Ab(1 + m) - aB(1 + m + 2n))(ex)^{1+m}}{2a^2b^3e(1 + m)n^2} \\
&\quad + \frac{(Ab - aB)(ex)^{1+m} (c + dx^n)^2}{2abn (a + bx^n)^2} \\
&\quad + \frac{(bc - ad)(ex)^{1+m} (c(aB(1 + m) - Ab(1 + m - 2n)) - d(Ab(1 + m) - aB(1 + m + 2n))x^n)}{2a^2b^2en^2 (a + bx^n)} \\
&\quad + \frac{(c(aB(1 + m) - Ab(1 + m - 2n))(ad(1 + m) - bc(1 + m - n)) - \frac{ad(bc(1+m)-ad(1+m+n))(Ab(1+m)}{b}}{2a^3b^2e(1 + m)n^2}
\end{aligned}$$

Mathematica [A] (verified)

Time = 0.65 (sec) , antiderivative size = 168, normalized size of antiderivative = 0.52

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)^2}{(a + bx^n)^3} dx$$

$$= \frac{x(ex)^m \left(Bd^2 + \frac{d(2bBc + Abd - 3aBd) \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{bx^n}{a}\right)}{a} + \frac{(bc-ad)(bBc + 2Abd - 3aBd) \operatorname{Hypergeometric2F1}\left(2, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{bx^n}{a}\right)}{a^2} \right)}{b^3(1+m)}$$

[In] Integrate[((e*x)^m*(A + B*x^n)*(c + d*x^n)^2)/(a + b*x^n)^3,x]

[Out] (x*(e*x)^m*(B*d^2 + (d*(2*b*B*c + A*b*d - 3*a*B*d)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -(b*x^n)/a])/a + ((b*c - a*d)*(b*B*c + 2*A*b*d - 3*a*B*d)*Hypergeometric2F1[2, (1 + m)/n, (1 + m + n)/n, -(b*x^n)/a])/a^2 + ((A*b - a*B)*(b*c - a*d)^2*Hypergeometric2F1[3, (1 + m)/n, (1 + m + n)/n, -(b*x^n)/a])/a^3)/(b^3*(1 + m))

Maple [F]

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)^2}{(a + bx^n)^3} dx$$

[In] int((e*x)^m*(A+B*x^n)*(c+d*x^n)^2/(a+b*x^n)^3,x)

[Out] int((e*x)^m*(A+B*x^n)*(c+d*x^n)^2/(a+b*x^n)^3,x)

Fricas [F]

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)^2}{(a + bx^n)^3} dx = \int \frac{(Bx^n + A)(dx^n + c)^2 (ex)^m}{(bx^n + a)^3} dx$$

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

[Out] integral((B*d^2*x^(3*n) + A*c^2 + (2*B*c*d + A*d^2)*x^(2*n) + (B*c^2 + 2*A*c*d)*x^n)*(e*x)^m/(b^3*x^(3*n) + 3*a*b^2*x^(2*n) + 3*a^2*b*x^n + a^3), x)

Sympy [F(-1)]

Timed out.

$$\int \frac{(ex)^m (A + Bx^n) (c + dx^n)^2}{(a + bx^n)^3} dx = \text{Timed out}$$

[In] integrate((e*x)**m*(A+B*x**n)*(c+d*x**n)**2/(a+b*x**n)**3,x)

[Out] Timed out

Maxima [F]

$$\int \frac{(ex)^m (A + Bx^n) (c + dx^n)^2}{(a + bx^n)^3} dx = \int \frac{(Bx^n + A)(dx^n + c)^2 (ex)^m}{(bx^n + a)^3} dx$$

[In] integrate((e*x)^m*(A+B*x^n)*(c+d*x^n)^2/(a+b*x^n)^3,x, algorithm="maxima")

[Out] (((m^2 - m*(3*n - 2) + 2*n^2 - 3*n + 1)*b^3*c^2*e^m - 2*(m^2 - m*(n - 2) - n + 1)*a*b^2*c*d*e^m + (m^2 + m*(n + 2) + n + 1)*a^2*b*d^2*e^m)*A - ((m^2 - m*(n - 2) - n + 1)*a*b^2*c^2*e^m - 2*(m^2 + m*(n + 2) + n + 1)*a^2*b*c*d*e^m + (m^2 + m*(3*n + 2) + 2*n^2 + 3*n + 1)*a^3*d^2*e^m)*B)*integrate(1/2*x^m/(a^2*b^4*n^2*x^n + a^3*b^3*n^2), x) + 1/2*(2*B*a^2*b^2*d^2*e^m*n^2*x^e^(m*log(x) + 2*n*log(x)) - ((m^2 - m*(3*n - 2) - 3*n + 1)*a*b^3*c^2*e^m - 2*(m^2 - m*(n - 2) - n + 1)*a^2*b^2*c*d*e^m + (m^2 + m*(n + 2) + n + 1)*a^3*b*d^2*e^m)*A - ((m^2 - m*(n - 2) - n + 1)*a^2*b^2*c^2*e^m - 2*(m^2 + m*(n + 2) + n + 1)*a^3*b*c*d*e^m + (m^2 + m*(3*n + 2) + 2*n^2 + 3*n + 1)*a^4*d^2*e^m)*B)*x*x^m - (((m^2 - 2*m*(n - 1) - 2*n + 1)*b^4*c^2*e^m - 2*(m^2 + 2*m + 1)*a*b^3*c*d*e^m + (m^2 + 2*m*(n + 1) + 2*n + 1)*a^2*b^2*d^2*e^m)*A - ((m^2 + 2*m + 1)*a*b^3*c^2*e^m - 2*(m^2 + 2*m*(n + 1) + 2*n + 1)*a^2*b^2*c*d*e^m + (m^2 + 2*m*(2*n + 1) + 4*n^2 + 4*n + 1)*a^3*b*d^2*e^m)*B)*x*e^(m*log(x) + n*log(x)))/((m*n^2 + n^2)*a^2*b^5*x^(2*n) + 2*(m*n^2 + n^2)*a^3*b^4*x^n + (m*n^2 + n^2)*a^4*b^3)

Giac [F]

$$\int \frac{(ex)^m (A + Bx^n) (c + dx^n)^2}{(a + bx^n)^3} dx = \int \frac{(Bx^n + A)(dx^n + c)^2 (ex)^m}{(bx^n + a)^3} dx$$

[In] integrate((e*x)^m*(A+B*x^n)*(c+d*x^n)^2/(a+b*x^n)^3,x, algorithm="giac")

[Out] integrate((B*x^n + A)*(d*x^n + c)^2*(e*x)^m/(b*x^n + a)^3, x)

Mupad [F(-1)]

Timed out.

$$\int \frac{(ex)^m (A + Bx^n) (c + dx^n)^2}{(a + bx^n)^3} dx = \int \frac{(ex)^m (A + Bx^n) (c + dx^n)^2}{(a + bx^n)^3} dx$$

```
[In] int(((e*x)^m*(A + B*x^n)*(c + d*x^n)^2)/(a + b*x^n)^3,x)
```

```
[Out] int(((e*x)^m*(A + B*x^n)*(c + d*x^n)^2)/(a + b*x^n)^3, x)
```

3.15 $\int (ex)^m (a + bx^n)^3 (A + Bx^n) (c + dx^n)^3 dx$

Optimal result	437
Rubi [A] (verified)	438
Mathematica [A] (verified)	441
Maple [C] (warning: unable to verify)	441
Fricas [B] (verification not implemented)	442
Sympy [B] (verification not implemented)	442
Maxima [B] (verification not implemented)	662
Giac [B] (verification not implemented)	663
Mupad [B] (verification not implemented)	746

Optimal result

Integrand size = 31, antiderivative size = 410

$$\begin{aligned}
 & \int (ex)^m (a + bx^n)^3 (A + Bx^n) (c + dx^n)^3 dx \\
 &= \frac{a^2 c^2 (aBc + 3A(bc + ad)) x^{1+n} (ex)^m}{1 + m + n} \\
 &+ \frac{3ac(aBc(bc + ad) + A(b^2 c^2 + 3abcd + a^2 d^2)) x^{1+2n} (ex)^m}{1 + m + 2n} \\
 &+ \frac{(3aBc(b^2 c^2 + 3abcd + a^2 d^2) + A(b^3 c^3 + 9ab^2 c^2 d + 9a^2 bcd^2 + a^3 d^3)) x^{1+3n} (ex)^m}{1 + m + 3n} \\
 &+ \frac{(a^3 B d^3 + 9ab^2 cd(Bc + Ad) + 3a^2 b d^2 (3Bc + Ad) + b^3 c^2 (Bc + 3Ad)) x^{1+4n} (ex)^m}{1 + m + 4n} \\
 &+ \frac{3bd(a^2 B d^2 + b^2 c(Bc + Ad) + abd(3Bc + Ad)) x^{1+5n} (ex)^m}{1 + m + 5n} \\
 &+ \frac{b^2 d^2 (3bBc + Abd + 3aBd) x^{1+6n} (ex)^m}{1 + m + 6n} + \frac{b^3 B d^3 x^{1+7n} (ex)^m}{1 + m + 7n} + \frac{a^3 A c^3 (ex)^{1+m}}{e(1 + m)}
 \end{aligned}$$

```

[Out] a^2*c^2*(B*a*c+3*A*(a*d+b*c))*x^(1+n)*(e*x)^m/(1+m+n)+3*a*c*(a*B*c*(a*d+b*c)
)+A*(a^2*d^2+3*a*b*c*d+b^2*c^2))*x^(1+2*n)*(e*x)^m/(1+m+2*n)+(3*a*B*c*(a^2*
d^2+3*a*b*c*d+b^2*c^2)+A*(a^3*d^3+9*a^2*b*c*d^2+9*a*b^2*c^2*d+b^3*c^3))*x^(
1+3*n)*(e*x)^m/(1+m+3*n)+(a^3*B*d^3+9*a*b^2*c*d*(A*d+B*c)+3*a^2*b*d^2*(A*d+
3*B*c)+b^3*c^2*(3*A*d+B*c))*x^(1+4*n)*(e*x)^m/(1+m+4*n)+3*b*d*(a^2*B*d^2+b^
2*c*(A*d+B*c)+a*b*d*(A*d+3*B*c))*x^(1+5*n)*(e*x)^m/(1+m+5*n)+b^2*d^2*(A*b*d
+3*B*a*d+3*B*b*c))*x^(1+6*n)*(e*x)^m/(1+m+6*n)+b^3*B*d^3*x^(1+7*n)*(e*x)^m/(
1+m+7*n)+a^3*A*c^3*(e*x)^(1+m)/e/(1+m)

```

Rubi [A] (verified)

Time = 0.40 (sec) , antiderivative size = 410, normalized size of antiderivative = 1.00,
 number of steps used = 16, number of rules used = 3, $\frac{\text{number of rules}}{\text{integrand size}} = 0.097$, Rules used
 = {584, 20, 30}

$$\int (ex)^m (a + bx^n)^3 (A + Bx^n) (c + dx^n)^3 dx$$

$$= \frac{a^3 Ac^3 (ex)^{m+1}}{e(m+1)} + \frac{3acx^{2n+1} (ex)^m (A(a^2 d^2 + 3abcd + b^2 c^2) + aBc(ad + bc))}{m + 2n + 1}$$

$$+ \frac{3bdx^{5n+1} (ex)^m (a^2 Bd^2 + abd(Ad + 3Bc) + b^2 c(Ad + Bc))}{m + 5n + 1}$$

$$+ \frac{a^2 c^2 x^{n+1} (ex)^m (3A(ad + bc) + aBc)}{m + n + 1}$$

$$+ \frac{x^{4n+1} (ex)^m (a^3 Bd^3 + 3a^2 bd^2(Ad + 3Bc) + 9ab^2 cd(Ad + Bc) + b^3 c^2(3Ad + Bc))}{m + 4n + 1}$$

$$+ \frac{x^{3n+1} (ex)^m (3aBc(a^2 d^2 + 3abcd + b^2 c^2) + A(a^3 d^3 + 9a^2 bcd^2 + 9ab^2 c^2 d + b^3 c^3))}{m + 3n + 1}$$

$$+ \frac{b^2 d^2 x^{6n+1} (ex)^m (3aBd + Abd + 3bBc)}{m + 6n + 1} + \frac{b^3 Bd^3 x^{7n+1} (ex)^m}{m + 7n + 1}$$

[In] Int[(e*x)^m*(a + b*x^n)^3*(A + B*x^n)*(c + d*x^n)^3,x]

[Out] (a^2*c^2*(a*B*c + 3*A*(b*c + a*d))*x^(1 + n)*(e*x)^m)/(1 + m + n) + (3*a*c*(a*B*c*(b*c + a*d) + A*(b^2*c^2 + 3*a*b*c*d + a^2*d^2))*x^(1 + 2*n)*(e*x)^m)/(1 + m + 2*n) + ((3*a*B*c*(b^2*c^2 + 3*a*b*c*d + a^2*d^2) + A*(b^3*c^3 + 9*a*b^2*c^2*d + 9*a^2*b*c*d^2 + a^3*d^3))*x^(1 + 3*n)*(e*x)^m)/(1 + m + 3*n) + ((a^3*B*d^3 + 9*a*b^2*c*d*(B*c + A*d) + 3*a^2*b*d^2*(3*B*c + A*d) + b^3*c^2*(B*c + 3*A*d))*x^(1 + 4*n)*(e*x)^m)/(1 + m + 4*n) + (3*b*d*(a^2*B*d^2 + b^2*c*(B*c + A*d) + a*b*d*(3*B*c + A*d))*x^(1 + 5*n)*(e*x)^m)/(1 + m + 5*n) + (b^2*d^2*(3*b*B*c + A*b*d + 3*a*B*d))*x^(1 + 6*n)*(e*x)^m)/(1 + m + 6*n) + (b^3*B*d^3*x^(1 + 7*n)*(e*x)^m)/(1 + m + 7*n) + (a^3*A*c^3*(e*x)^(1 + m))/(e*(1 + m))

Rule 20

Int[(u_.)*((a_.)*(v_))^(m_)*((b_.)*(v_))^(n_), x_Symbol] := Dist[b^IntPart[n]*((b*v)^FracPart[n]/(a^IntPart[n]*(a*v)^FracPart[n])), Int[u*(a*v)^(m+n), x], x] /; FreeQ[{a, b, m, n}, x] && !IntegerQ[m] && !IntegerQ[n] && !IntegerQ[m+n]

Rule 30

Int[(x_)^(m_.), x_Symbol] := Simp[x^(m+1)/(m+1), x] /; FreeQ[m, x] && N eQ[m, -1]

Rule 584

```
Int[((g_)*(x_))^(m_)*((a_)+(b_)*(x_)^(n_))^(p_)*((c_)+(d_)*(x_)^(n_))^(q_)*((e_)+(f_)*(x_)^(n_))^(r_), x_Symbol] :> Int[ExpandIntegrand[(g*x)^m*(a + b*x^n)^p*(c + d*x^n)^q*(e + f*x^n)^r, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n}, x] && IGtQ[p, -2] && IGtQ[q, 0] && IGtQ[r, 0]
```

Rubi steps

$$\begin{aligned}
\text{integral} &= \int (a^3 A c^3 (ex)^m + a^2 c^2 (a B c + 3 A (bc + ad)) x^n (ex)^m \\
&\quad + 3 a c (a B c (bc + ad) + A (b^2 c^2 + 3 a b c d + a^2 d^2)) x^{2n} (ex)^m \\
&\quad + (3 a B c (b^2 c^2 + 3 a b c d + a^2 d^2) + A (b^3 c^3 + 9 a b^2 c^2 d + 9 a^2 b c d^2 + a^3 d^3)) x^{3n} (ex)^m \\
&\quad + (a^3 B d^3 + 9 a b^2 c d (B c + A d) + 3 a^2 b d^2 (3 B c + A d) + b^3 c^2 (B c + 3 A d)) x^{4n} (ex)^m \\
&\quad + 3 b d (a^2 B d^2 + b^2 c (B c + A d) + a b d (3 B c + A d)) x^{5n} (ex)^m \\
&\quad + b^2 d^2 (3 b B c + A b d + 3 a B d) x^{6n} (ex)^m + b^3 B d^3 x^{7n} (ex)^m) dx \\
&= \frac{a^3 A c^3 (ex)^{1+m}}{e(1+m)} + (b^3 B d^3) \int x^{7n} (ex)^m dx \\
&\quad + (b^2 d^2 (3 b B c + A b d + 3 a B d)) \int x^{6n} (ex)^m dx \\
&\quad + (a^2 c^2 (a B c + 3 A (bc + ad))) \int x^n (ex)^m dx \\
&\quad + (3 b d (a^2 B d^2 + b^2 c (B c + A d) + a b d (3 B c + A d))) \int x^{5n} (ex)^m dx \\
&\quad + (a^3 B d^3 + 9 a b^2 c d (B c + A d) + 3 a^2 b d^2 (3 B c + A d) + b^3 c^2 (B c + 3 A d)) \int x^{4n} (ex)^m dx \\
&\quad + (3 a c (a B c (bc + ad) + A (b^2 c^2 + 3 a b c d + a^2 d^2))) \int x^{2n} (ex)^m dx \\
&\quad + (3 a B c (b^2 c^2 + 3 a b c d + a^2 d^2) + A (b^3 c^3 + 9 a b^2 c^2 d + 9 a^2 b c d^2 + a^3 d^3)) \int x^{3n} (ex)^m dx
\end{aligned}$$

$$\begin{aligned}
&= \frac{a^3 Ac^3 (ex)^{1+m}}{e(1+m)} + (b^3 Bd^3 x^{-m} (ex)^m) \int x^{m+7n} dx \\
&\quad + (b^2 d^2 (3bBc + Abd + 3aBd) x^{-m} (ex)^m) \int x^{m+6n} dx \\
&\quad + (a^2 c^2 (aBc + 3A(bc + ad)) x^{-m} (ex)^m) \int x^{m+n} dx \\
&\quad + (3bd(a^2 Bd^2 + b^2 c(Bc + Ad) + abd(3Bc + Ad)) x^{-m} (ex)^m) \int x^{m+5n} dx + ((a^3 Bd^3 \\
&\quad + 9ab^2 cd(Bc + Ad) + 3a^2 bd^2(3Bc + Ad) + b^3 c^2(Bc + 3Ad)) x^{-m} (ex)^m) \int x^{m+4n} dx \\
&\quad + (3ac(aBc(bc + ad) + A(b^2 c^2 + 3abcd + a^2 d^2)) x^{-m} (ex)^m) \int x^{m+2n} dx \\
&\quad + ((3aBc(b^2 c^2 + 3abcd + a^2 d^2) \\
&\quad \quad + A(b^3 c^3 + 9ab^2 c^2 d + 9a^2 bcd^2 + a^3 d^3)) x^{-m} (ex)^m) \int x^{m+3n} dx \\
&= \frac{a^2 c^2 (aBc + 3A(bc + ad)) x^{1+n} (ex)^m}{1+m+n} \\
&\quad + \frac{3ac(aBc(bc + ad) + A(b^2 c^2 + 3abcd + a^2 d^2)) x^{1+2n} (ex)^m}{1+m+2n} \\
&\quad + \frac{(3aBc(b^2 c^2 + 3abcd + a^2 d^2) + A(b^3 c^3 + 9ab^2 c^2 d + 9a^2 bcd^2 + a^3 d^3)) x^{1+3n} (ex)^m}{1+m+3n} \\
&\quad + \frac{(a^3 Bd^3 + 9ab^2 cd(Bc + Ad) + 3a^2 bd^2(3Bc + Ad) + b^3 c^2(Bc + 3Ad)) x^{1+4n} (ex)^m}{1+m+4n} \\
&\quad + \frac{3bd(a^2 Bd^2 + b^2 c(Bc + Ad) + abd(3Bc + Ad)) x^{1+5n} (ex)^m}{1+m+5n} \\
&\quad + \frac{b^2 d^2 (3bBc + Abd + 3aBd) x^{1+6n} (ex)^m}{1+m+6n} + \frac{b^3 Bd^3 x^{1+7n} (ex)^m}{1+m+7n} + \frac{a^3 Ac^3 (ex)^{1+m}}{e(1+m)}
\end{aligned}$$

Mathematica [A] (verified)

Time = 1.52 (sec) , antiderivative size = 358, normalized size of antiderivative = 0.87

$$\begin{aligned}
& \int (ex)^m (a + bx^n)^3 (A + Bx^n) (c + dx^n)^3 dx \\
&= x(ex)^m \left(\frac{a^3 Ac^3}{1+m} + \frac{a^2 c^2 (aBc + 3A(bc + ad))x^n}{1+m+n} \right. \\
&\quad + \frac{3ac(aBc(bc + ad) + A(b^2 c^2 + 3abcd + a^2 d^2))x^{2n}}{1+m+2n} \\
&\quad + \frac{(3aBc(b^2 c^2 + 3abcd + a^2 d^2) + A(b^3 c^3 + 9ab^2 c^2 d + 9a^2 bcd^2 + a^3 d^3))x^{3n}}{1+m+3n} \\
&\quad + \frac{(a^3 Bd^3 + 9ab^2 cd(Bc + Ad) + 3a^2 bd^2(3Bc + Ad) + b^3 c^2(Bc + 3Ad))x^{4n}}{1+m+4n} \\
&\quad + \frac{3bd(a^2 Bd^2 + b^2 c(Bc + Ad) + abd(3Bc + Ad))x^{5n}}{1+m+5n} + \left. \frac{b^2 d^2(3bBc + Abd + 3aBd)x^{6n}}{1+m+6n} \right. \\
&\quad \left. + \frac{b^3 Bd^3 x^{7n}}{1+m+7n} \right)
\end{aligned}$$

[In] Integrate[(e*x)^m*(a + b*x^n)^3*(A + B*x^n)*(c + d*x^n)^3,x]

```
[Out] x*(e*x)^m*((a^3*A*c^3)/(1+m) + (a^2*c^2*(a*B*c + 3*A*(b*c + a*d))*x^n)/(1+m+n) + (3*a*c*(a*B*c*(b*c + a*d) + A*(b^2*c^2 + 3*a*b*c*d + a^2*d^2))*x^(2*n))/(1+m+2*n) + ((3*a*B*c*(b^2*c^2 + 3*a*b*c*d + a^2*d^2) + A*(b^3*c^3 + 9*a*b^2*c^2*d + 9*a^2*b*c*d^2 + a^3*d^3))*x^(3*n))/(1+m+3*n) + ((a^3*B*d^3 + 9*a*b^2*c*d*(B*c + A*d) + 3*a^2*b*d^2*(3*B*c + A*d) + b^3*c^2*(B*c + 3*A*d))*x^(4*n))/(1+m+4*n) + (3*b*d*(a^2*B*d^2 + b^2*c*(B*c + A*d) + a*b*d*(3*B*c + A*d))*x^(5*n))/(1+m+5*n) + (b^2*d^2*(3*b*B*c + A*b*d + 3*a*B*d))*x^(6*n))/(1+m+6*n) + (b^3*B*d^3*x^(7*n))/(1+m+7*n))
```

Maple [C] (warning: unable to verify)

Result contains higher order function than in optimal. Order 9 vs. order 3.

Time = 10.71 (sec) , antiderivative size = 20904, normalized size of antiderivative = 50.99

method	result	size
risch	Expression too large to display	20904
parallelrisch	Expression too large to display	27583

[In] int((e*x)^m*(a+b*x^n)^3*(A+B*x^n)*(c+d*x^n)^3,x,method=_RETURNVERBOSE)

[Out] result too large to display

Fricas [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 11628 vs. $2(410) = 820$.

Time = 1.22 (sec) , antiderivative size = 11628, normalized size of antiderivative = 28.36

$$\int (ex)^m (a + bx^n)^3 (A + Bx^n) (c + dx^n)^3 dx = \text{Too large to display}$$

[In] integrate((e*x)^m*(a+b*x^n)^3*(A+B*x^n)*(c+d*x^n)^3,x, algorithm="fricas")

[Out] Too large to include

Sympy [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 365145 vs. $2(410) = 820$.

Time = 40.54 (sec) , antiderivative size = 365145, normalized size of antiderivative = 890.60

$$\int (ex)^m (a + bx^n)^3 (A + Bx^n) (c + dx^n)^3 dx = \text{Too large to display}$$

[In] integrate((e*x)**m*(a+b*x**n)**3*(A+B*x**n)*(c+d*x**n)**3,x)

[Out] Piecewise(((A + B)*(a + b)**3*(c + d)**3*log(x)/e, Eq(m, -1) & Eq(n, 0)), ((A*a**3*c**3*log(x) + 3*A*a**3*c**2*d*x**n/n + 3*A*a**3*c*d**2*x**(2*n)/(2*n) + A*a**3*d**3*x**(3*n)/(3*n) + 3*A*a**2*b*c**3*x**n/n + 9*A*a**2*b*c**2*d*x**(2*n)/(2*n) + 3*A*a**2*b*c*d**2*x**(3*n)/n + 3*A*a**2*b*d**3*x**(4*n)/(4*n) + 3*A*a*b**2*c**3*x**(2*n)/(2*n) + 3*A*a*b**2*c**2*d*x**(3*n)/n + 9*A*a*b**2*c*d**2*x**(4*n)/(4*n) + 3*A*a*b**2*d**3*x**(5*n)/(5*n) + A*b**3*c**3*x**(3*n)/(3*n) + 3*A*b**3*c**2*d*x**(4*n)/(4*n) + 3*A*b**3*c*d**2*x**(5*n)/(5*n) + A*b**3*d**3*x**(6*n)/(6*n) + B*a**3*c**3*x**n/n + 3*B*a**3*c**2*d*x**(2*n)/(2*n) + B*a**3*c*d**2*x**(3*n)/n + B*a**3*d**3*x**(4*n)/(4*n) + 3*B*a**2*b*c**3*x**(2*n)/(2*n) + 3*B*a**2*b*c**2*d*x**(3*n)/n + 9*B*a**2*b*c*d**2*x**(4*n)/(4*n) + 3*B*a**2*b*d**3*x**(5*n)/(5*n) + B*a*b**2*c**3*x**(3*n)/n + 9*B*a*b**2*c**2*d*x**(4*n)/(4*n) + 9*B*a*b**2*c*d**2*x**(5*n)/(5*n) + B*a*b**2*d**3*x**(6*n)/(2*n) + B*b**3*c**3*x**(4*n)/(4*n) + 3*B*b**3*c**2*d*x**(5*n)/(5*n) + B*b**3*c*d**2*x**(6*n)/(2*n) + B*b**3*d**3*x**(7*n)/(7*n))/e, Eq(m, -1)), (A*a**3*c**3*Piecewise((0**(-7*n - 1)*x, Eq(e, 0)), (Piecewise((-1/(7*n*(e*x)**(7*n)), Ne(n, 0)), (log(e*x), True))/e, True)) + 3*A*a**3*c**2*d*Piecewise((-x*x**n*(e*x)**(-7*n - 1)/(6*n), Ne(n, 0)), (x*x**n*(e*x)**(-7*n - 1)*log(x), True)) + 3*A*a**3*c*d**2*Piecewise((-x*x**(2*n)*(e*x)**(-7*n - 1)/(5*n), Ne(n, 0)), (x*x**(2*n)*(e*x)**(-7*n - 1)*log(x), True)) + A*a**3*d**3*Piecewise((-x*x**(3*n)*(e*x)**(-7*n - 1)/(4*n), Ne(n, 0)), (x*x**(3*n)*(e*x)**(-7*n - 1)*log(x), True)) + 3*A*a**2*b*c**3*Piecewise((-x*x**n*(e*x)**(-7*n - 1)/(6*n), Ne(n, 0)), (x*x**n*(e*x)**(-7*n - 1)*log(x), True)) + 9*A*a**2*b*c**2*d*Piecewise((-x*x**(2*n)*(e*x)**(-7*n - 1)/

$(5n), Ne(n, 0)), (x^{2n}(e^x)^{-7n-1} \log(x), True)) + 9Aa^{2b}c^{d2} \text{Piecewise}((-x^{3n}(e^x)^{-7n-1}/(4n), Ne(n, 0)), (x^{3n}(e^x)^{-7n-1} \log(x), True)) + 3Aa^{2b}d^{3} \text{Piecewise}((-x^{4n}(e^x)^{-7n-1}/(3n), Ne(n, 0)), (x^{4n}(e^x)^{-7n-1} \log(x), True)) + 3Aa^{b2}c^{3} \text{Piecewise}((-x^{2n}(e^x)^{-7n-1}/(5n), Ne(n, 0)), (x^{2n}(e^x)^{-7n-1} \log(x), True)) + 9Aa^{b2}c^{2d} \text{Piecewise}((-x^{3n}(e^x)^{-7n-1}/(4n), Ne(n, 0)), (x^{3n}(e^x)^{-7n-1} \log(x), True)) + 9Aa^{b2}c^{d2} \text{Piecewise}((-x^{4n}(e^x)^{-7n-1}/(3n), Ne(n, 0)), (x^{4n}(e^x)^{-7n-1} \log(x), True)) + 3Aa^{b2}d^{3} \text{Piecewise}((-x^{5n}(e^x)^{-7n-1}/(2n), Ne(n, 0)), (x^{5n}(e^x)^{-7n-1} \log(x), True)) + A^{b3}c^{3} \text{Piecewise}((-x^{3n}(e^x)^{-7n-1}/(4n), Ne(n, 0)), (x^{3n}(e^x)^{-7n-1} \log(x), True)) + 3A^{b3}c^{2d} \text{Piecewise}((-x^{4n}(e^x)^{-7n-1}/(3n), Ne(n, 0)), (x^{4n}(e^x)^{-7n-1} \log(x), True)) + 3A^{b3}c^{d2} \text{Piecewise}((-x^{5n}(e^x)^{-7n-1}/(2n), Ne(n, 0)), (x^{5n}(e^x)^{-7n-1} \log(x), True)) + A^{b3}d^{3} \text{Piecewise}((-x^{6n}(e^x)^{-7n-1}/n, Ne(n, 0)), (x^{6n}(e^x)^{-7n-1} \log(x), True)) + B^{a3}c^{3} \text{Piecewise}((-x^{n}(e^x)^{-7n-1}/(6n), Ne(n, 0)), (x^{n}(e^x)^{-7n-1} \log(x), True)) + 3B^{a3}c^{2d} \text{Piecewise}((-x^{2n}(e^x)^{-7n-1}/(5n), Ne(n, 0)), (x^{2n}(e^x)^{-7n-1} \log(x), True)) + 3B^{a3}c^{d2} \text{Piecewise}((-x^{3n}(e^x)^{-7n-1}/(4n), Ne(n, 0)), (x^{3n}(e^x)^{-7n-1} \log(x), True)) + B^{a3}d^{3} \text{Piecewise}((-x^{4n}(e^x)^{-7n-1}/(3n), Ne(n, 0)), (x^{4n}(e^x)^{-7n-1} \log(x), True)) + 3B^{a2}b^{c3} \text{Piecewise}((-x^{2n}(e^x)^{-7n-1}/(5n), Ne(n, 0)), (x^{2n}(e^x)^{-7n-1} \log(x), True)) + 9B^{a2}b^{c2}d \text{Piecewise}((-x^{3n}(e^x)^{-7n-1}/(4n), Ne(n, 0)), (x^{3n}(e^x)^{-7n-1} \log(x), True)) + 9B^{a2}b^{c}d^{2} \text{Piecewise}((-x^{4n}(e^x)^{-7n-1}/(3n), Ne(n, 0)), (x^{4n}(e^x)^{-7n-1} \log(x), True)) + 3B^{a2}b^{d3} \text{Piecewise}((-x^{5n}(e^x)^{-7n-1}/(2n), Ne(n, 0)), (x^{5n}(e^x)^{-7n-1} \log(x), True)) + 3B^{a2}b^{2c3} \text{Piecewise}((-x^{3n}(e^x)^{-7n-1}/(4n), Ne(n, 0)), (x^{3n}(e^x)^{-7n-1} \log(x), True)) + 9B^{a2}b^{2c}d^{2} \text{Piecewise}((-x^{4n}(e^x)^{-7n-1}/(3n), Ne(n, 0)), (x^{4n}(e^x)^{-7n-1} \log(x), True)) + 9B^{a2}b^{2c}d^{2} \text{Piecewise}((-x^{5n}(e^x)^{-7n-1}/(2n), Ne(n, 0)), (x^{5n}(e^x)^{-7n-1} \log(x), True)) + 3B^{a2}b^{2d} \text{Piecewise}((-x^{6n}(e^x)^{-7n-1}/n, Ne(n, 0)), (x^{6n}(e^x)^{-7n-1} \log(x), True)) + B^{b3}c^{3} \text{Piecewise}((-x^{4n}(e^x)^{-7n-1}/(3n), Ne(n, 0)), (x^{4n}(e^x)^{-7n-1} \log(x), True)) + 3B^{b3}c^{2d} \text{Piecewise}((-x^{5n}(e^x)^{-7n-1}/(2n), Ne(n, 0)), (x^{5n}(e^x)^{-7n-1} \log(x), True)) + 3B^{b3}c^{d2} \text{Piecewise}((-x^{6n}(e^x)^{-7n-1}/n, Ne(n, 0)), (x^{6n}(e^x)^{-7n-1} \log(x), True)) + B^{b3}d^{3}x^{7n}(e^x)^{-7n-1} \log(x), Eq(m, -7n-1)), (A^{a3}c^{3} \text{Piecewise}((0^{(-6n-1)}x, Eq(e, 0)), (\text{Piecewise}((-1/(6n)(e^x)^{6n}), Ne(n, 0)), (\log(e^x), True))/e, True)) + 3A^{a3}c^{2d} \text{Piecewise}((-x^{n}(e^x)^{-6n-1}/(5n), Ne(n, 0)), (x^{n}(e^x)^{-6n-1}$

$$\begin{aligned} &)), (x^{7n}(e^x)^{-6n-1} \log(x), \text{True})), \text{Eq}(m, -6n-1)), (A^{*3} \\ &*c^{*3} \text{Piecewise}((0^{*-5n-1}x, \text{Eq}(e, 0)), (\text{Piecewise}((-1/(5^n(e^x)^{5n})), \text{Ne}(n, 0)), (\log(e^x), \text{True}))/e, \text{True})) + 3A^{*3}c^{*2}d^{*2} \text{Piecewise}((-x \\ &*x^{*n}(e^x)^{-5n-1}/(4^n), \text{Ne}(n, 0)), (x^{*n}(e^x)^{-5n-1} \log(x), \\ &\text{True})) + 3A^{*3}c^{*2}d^{*2} \text{Piecewise}((-x^{*2n}(e^x)^{-5n-1}/(3^n), \text{N} \\ &e(n, 0)), (x^{*2n}(e^x)^{-5n-1} \log(x), \text{True})) + A^{*3}d^{*3} \text{Piec} \\ &\text{e}wise((-x^{*3n}(e^x)^{-5n-1}/(2^n), \text{Ne}(n, 0)), (x^{*3n}(e^x)^{-5 \\ &*n-1} \log(x), \text{True})) + 3A^{*2}b^{*3}c^{*3} \text{Piecewise}((-x^{*n}(e^x)^{-5n-1} \\ &)/ (4^n), \text{Ne}(n, 0)), (x^{*n}(e^x)^{-5n-1} \log(x), \text{True})) + 9A^{*2}b^{*2}c^{*2}d^{*2} \text{Piec} \\ &\text{e}wise((-x^{*2n}(e^x)^{-5n-1}/(3^n), \text{Ne}(n, 0)), (x^{*2n}(e^x)^{-5n-1} \log(x), \text{True})) + 9A^{*2}b^{*2}c^{*2}d^{*2} \text{Piec} \\ &\text{e}wise((-x^{*3n}(e^x)^{-5n-1}/(2^n), \text{Ne}(n, 0)), (x^{*3n}(e^x)^{-5n-1} \log(x) \\ &), \text{True})) + 3A^{*2}b^{*3}d^{*3} \text{Piecewise}((-x^{*4n}(e^x)^{-5n-1}/n, \text{Ne}(\\ &n, 0)), (x^{*4n}(e^x)^{-5n-1} \log(x), \text{True})) + 3A^{*2}b^{*2}c^{*3} \text{Piec} \\ &\text{e}wise((-x^{*2n}(e^x)^{-5n-1}/(3^n), \text{Ne}(n, 0)), (x^{*2n}(e^x)^{-5 \\ &*n-1} \log(x), \text{True})) + 9A^{*2}b^{*2}c^{*2}d^{*2} \text{Piecewise}((-x^{*3n}(e^x)^{-5 \\ &*n-1} \log(x), \text{True})) + 9A^{*2}b^{*2}c^{*2}d^{*2} \text{Piecewise}((-x^{*4n}(e^x)^{-5n-1}/n, \text{Ne}(n, 0)), (\\ &x^{*4n}(e^x)^{-5n-1} \log(x), \text{True})) + 3A^{*2}b^{*2}d^{*3}x^{*5n}(e^x)^{-5n-1} \log(x) + A^{*2}b^{*3}c^{*3} \text{Piec} \\ &\text{e}wise((-x^{*3n}(e^x)^{-5n-1} \\ &)/ (2^n), \text{Ne}(n, 0)), (x^{*3n}(e^x)^{-5n-1} \log(x), \text{True})) + 3A^{*2}b^{*3} \\ &c^{*2}d^{*2} \text{Piecewise}((-x^{*4n}(e^x)^{-5n-1}/n, \text{Ne}(n, 0)), (x^{*4n} \\ &)* (e^x)^{-5n-1} \log(x), \text{True})) + 3A^{*2}b^{*3}c^{*2}d^{*2}x^{*5n}(e^x)^{-5n-1} \log(x) + A^{*2}b^{*3}d^{*3} \text{Piec} \\ &\text{e}wise((x^{*6n}(e^x)^{-5n-1}/n, \text{Ne}(n, \\ &0)), (x^{*6n}(e^x)^{-5n-1} \log(x), \text{True})) + B^{*3}c^{*3} \text{Piec} \\ &\text{e}wise(\\ &(-x^{*n}(e^x)^{-5n-1}/(4^n), \text{Ne}(n, 0)), (x^{*n}(e^x)^{-5n-1} \log(x) \\ &), \text{True})) + 3B^{*3}c^{*2}d^{*2} \text{Piec} \\ &\text{e}wise((-x^{*2n}(e^x)^{-5n-1}/(3^n) \\ &), \text{Ne}(n, 0)), (x^{*2n}(e^x)^{-5n-1} \log(x), \text{True})) + 3B^{*3}c^{*2}d^{*2} \\ &* \text{Piec} \\ &\text{e}wise((-x^{*3n}(e^x)^{-5n-1}/(2^n), \text{Ne}(n, 0)), (x^{*3n}(e^x)^{-5n-1} \log(x), \text{True})) + B^{*3}d^{*3} \text{Piec} \\ &\text{e}wise((-x^{*4n}(e^x)^{-5n-1} \\ &)/ n, \text{Ne}(n, 0)), (x^{*4n}(e^x)^{-5n-1} \log(x), \text{True})) + 3B^{*2}b^{*3}c^{*3} \text{Piec} \\ &\text{e}wise((-x^{*2n}(e^x)^{-5n-1}/(3^n), \text{Ne}(n, 0)), (x^{*2n}(e^x)^{-5n-1} \log(x), \text{True})) + 9B^{*2}b^{*2}c^{*2}d^{*2} \text{Piec} \\ &\text{e}wise((-x^{*3n}(e^x)^{-5n-1}/(2^n), \text{Ne}(n, 0)), (x^{*3n}(e^x)^{-5n-1} \log(x), \text{True})) + 9B^{*2}b^{*2}c^{*2}d^{*2} \text{Piec} \\ &\text{e}wise((-x^{*4n}(e^x)^{-5n-1} \\ &)/ n, \text{Ne}(n, 0)), (x^{*4n}(e^x)^{-5n-1} \log(x), \text{True})) + 3B^{*2}b^{*2}d^{*3}x^{*5n}(e^x)^{-5n-1} \log(x) + 3B^{*2}b^{*2}c^{*3} \text{Piec} \\ &\text{e}wise((-x^{*3n}(e^x)^{-5n-1}/(2^n), \text{Ne}(n, 0)), (x^{*3n}(e^x)^{-5n-1} \log(x) \\ &), \text{True})) + 9B^{*2}b^{*2}c^{*2}d^{*2} \text{Piec} \\ &\text{e}wise((-x^{*4n}(e^x)^{-5n-1}/n, \\ &\text{Ne}(n, 0)), (x^{*4n}(e^x)^{-5n-1} \log(x), \text{True})) + 9B^{*2}b^{*2}c^{*2}d^{*2} \\ &*x^{*5n}(e^x)^{-5n-1} \log(x) + 3B^{*2}b^{*2}d^{*3} \text{Piec} \\ &\text{e}wise((x^{*6n}(e^x)^{-5n-1}/n, \text{Ne}(n, 0)), (x^{*6n}(e^x)^{-5n-1} \log(x), \text{Tru} \\ &e)) + B^{*2}b^{*3}c^{*3} \text{Piec} \\ &\text{e}wise((-x^{*4n}(e^x)^{-5n-1}/n, \text{Ne}(n, 0)), (x \\ &x^{*4n}(e^x)^{-5n-1} \log(x), \text{True})) + 3B^{*2}b^{*3}c^{*2}d^{*2}x^{*5n}(e^x)^{-5n-1} \log(x) + 3B^{*2}b^{*3}c^{*2}d^{*2} \text{Piec} \\ &\text{e}wise((x^{*6n}(e^x)^{-5n-1} \end{aligned}$$

$- 1)/n, Ne(n, 0)), (x^{6n}(e^x)^{-5n-1} \log(x), True)) + B^{3d} * 3 * Piecewise((x^{7n}(e^x)^{-5n-1}/(2n), Ne(n, 0)), (x^{7n}(e^x)^{-5n-1} \log(x), True)), Eq(m, -5n-1)), (A^{3c} * 3 * Piecewise((0^{(-4n-1)x}, Eq(e, 0)), (Piecewise((-1/(4n(e^x)^{4n})), Ne(n, 0)), (1 \log(e^x), True))/e, True)) + 3A^{3c} * 2 * d * Piecewise((-x^{4n}(e^x)^{-4n-1}/(3n), Ne(n, 0)), (x^{4n}(e^x)^{-4n-1} \log(x), True)) + 3A^{3c} * d * 2 * Piecewise((-x^{2n}(e^x)^{-4n-1}/(2n), Ne(n, 0)), (x^{2n}(e^x)^{-4n-1} \log(x), True)) + A^{3d} * 3 * Piecewise((-x^{3n}(e^x)^{-4n-1}/n, Ne(n, 0)), (x^{3n}(e^x)^{-4n-1} \log(x), True)) + 3A^{2b} * c * 3 * Piecewise((-x^{4n}(e^x)^{-4n-1}/(3n), Ne(n, 0)), (x^{4n}(e^x)^{-4n-1} \log(x), True)) + 9A^{2b} * c * 2 * d * Piecewise((-x^{2n}(e^x)^{-4n-1}/(2n), Ne(n, 0)), (x^{2n}(e^x)^{-4n-1} \log(x), True)) + 9A^{2b} * c * d * 2 * Piecewise((-x^{3n}(e^x)^{-4n-1}/n, Ne(n, 0)), (x^{3n}(e^x)^{-4n-1} \log(x), True)) + 3A^{2b} * d * 3 * x^{4n}(e^x)^{-4n-1} \log(x) + 3A^{2b} * c * 3 * Piecewise((-x^{2n}(e^x)^{-4n-1}/(2n), Ne(n, 0)), (x^{2n}(e^x)^{-4n-1} \log(x), True)) + 9A^{2b} * c * 2 * d * Piecewise((-x^{3n}(e^x)^{-4n-1}/n, Ne(n, 0)), (x^{3n}(e^x)^{-4n-1} \log(x), True)) + 9A^{2b} * c * d * 2 * x^{4n}(e^x)^{-4n-1} \log(x) + 3A^{2b} * d * 3 * Piecewise((x^{5n}(e^x)^{-4n-1}/n, Ne(n, 0)), (x^{5n}(e^x)^{-4n-1} \log(x), True)) + A^{3c} * 3 * Piecewise((-x^{3n}(e^x)^{-4n-1}/n, Ne(n, 0)), (x^{3n}(e^x)^{-4n-1} \log(x), True)) + 3A^{3c} * 2 * d * x^{4n}(e^x)^{-4n-1} \log(x) + 3A^{3c} * d * 2 * Piecewise((x^{5n}(e^x)^{-4n-1}/n, Ne(n, 0)), (x^{5n}(e^x)^{-4n-1} \log(x), True)) + A^{3d} * 3 * Piecewise((x^{6n}(e^x)^{-4n-1}/(2n), Ne(n, 0)), (x^{6n}(e^x)^{-4n-1} \log(x), True)) + B^{3c} * 3 * Piecewise((-x^{4n}(e^x)^{-4n-1}/(3n), Ne(n, 0)), (x^{4n}(e^x)^{-4n-1} \log(x), True)) + 3B^{3c} * 2 * d * Piecewise((-x^{2n}(e^x)^{-4n-1}/(2n), Ne(n, 0)), (x^{2n}(e^x)^{-4n-1} \log(x), True)) + 3B^{3c} * d * 2 * Piecewise((-x^{3n}(e^x)^{-4n-1}/n, Ne(n, 0)), (x^{3n}(e^x)^{-4n-1} \log(x), True)) + B^{3d} * 3 * x^{4n}(e^x)^{-4n-1} \log(x) + 3B^{3d} * 2 * b * c * 3 * Piecewise((-x^{2n}(e^x)^{-4n-1}/(2n), Ne(n, 0)), (x^{2n}(e^x)^{-4n-1} \log(x), True)) + 9B^{3d} * 2 * b * c * 2 * d * Piecewise((-x^{3n}(e^x)^{-4n-1}/n, Ne(n, 0)), (x^{3n}(e^x)^{-4n-1} \log(x), True)) + 9B^{3d} * 2 * b * c * d * 2 * x^{4n}(e^x)^{-4n-1} \log(x) + 3B^{3d} * 2 * b * d * 3 * Piecewise((x^{5n}(e^x)^{-4n-1}/n, Ne(n, 0)), (x^{5n}(e^x)^{-4n-1} \log(x), True)) + 3B^{3d} * b * 2 * c * 3 * Piecewise((-x^{3n}(e^x)^{-4n-1}/n, Ne(n, 0)), (x^{3n}(e^x)^{-4n-1} \log(x), True)) + 9B^{3d} * a * b * 2 * c * 2 * d * x^{4n}(e^x)^{-4n-1} \log(x) + 9B^{3d} * a * b * 2 * c * d * 2 * Piecewise((x^{5n}(e^x)^{-4n-1}/n, Ne(n, 0)), (x^{5n}(e^x)^{-4n-1} \log(x), True)) + 3B^{3d} * a * b * 2 * d * 3 * Piecewise((x^{6n}(e^x)^{-4n-1}/(2n), Ne(n, 0)), (x^{6n}(e^x)^{-4n-1} \log(x), True)) + B^{3c} * 3 * c * 3 * x^{4n}(e^x)^{-4n-1} \log(x) + 3B^{3c} * b * 3 * c * 2 * d * Piecewise((x^{5n}(e^x)^{-4n-1}/n, Ne(n, 0)), (x^{5n}(e^x)^{-4n-1} \log(x), True)) + 3B^{3c} * b * 3 * c * d * 2 * Piecewise((x^{6n}(e^x)^{-4n-1}/(2n), Ne(n, 0))$

, $(x^{6n}(e^x)^{-4n-1}\log(x), \text{True})) + B^{3d} \text{Piecewise}(x^{7n}(e^x)^{-4n-1}/(3n), \text{Ne}(n, 0)), (x^{7n}(e^x)^{-4n-1}\log(x), \text{True}), \text{Eq}(m, -4n-1), (A^{3c} \text{Piecewise}(0^{(-3n-1)x}, \text{Eq}(e, 0)), (\text{Piecewise}((-1/(3n(e^x)^{3n})), \text{Ne}(n, 0)), (\log(e^x), \text{True}))/e, \text{True})) + 3A^{3c} \text{Piecewise}((-x^{3n}(e^x)^{-3n-1}/(2n), \text{Ne}(n, 0)), (x^{3n}(e^x)^{-3n-1}\log(x), \text{True})) + 3A^{3c} \text{Piecewise}((-x^{2n}(e^x)^{-3n-1}/n, \text{Ne}(n, 0)), (x^{2n}(e^x)^{-3n-1}\log(x), \text{True})) + A^{3d} \text{Piecewise}(x^{3n}(e^x)^{-3n-1}\log(x) + 3A^{2bc} \text{Piecewise}((-x^{3n}(e^x)^{-3n-1}/(2n), \text{Ne}(n, 0)), (x^{3n}(e^x)^{-3n-1}\log(x), \text{True})) + 9A^{2bd} \text{Piecewise}((-x^{2n}(e^x)^{-3n-1}/n, \text{Ne}(n, 0)), (x^{2n}(e^x)^{-3n-1}\log(x), \text{True})) + 9A^{2bcd} \text{Piecewise}(x^{3n}(e^x)^{-3n-1}\log(x) + 3A^{2bd} \text{Piecewise}(x^{4n}(e^x)^{-3n-1}/n, \text{Ne}(n, 0)), (x^{4n}(e^x)^{-3n-1}\log(x), \text{True})) + 3A^{2bc} \text{Piecewise}((-x^{2n}(e^x)^{-3n-1}/n, \text{Ne}(n, 0)), (x^{2n}(e^x)^{-3n-1}\log(x), \text{True})) + 9A^{2bcd} \text{Piecewise}(x^{3n}(e^x)^{-3n-1}\log(x) + 9A^{2cd} \text{Piecewise}(x^{4n}(e^x)^{-3n-1}/n, \text{Ne}(n, 0)), (x^{4n}(e^x)^{-3n-1}\log(x), \text{True})) + 3A^{2bd} \text{Piecewise}(x^{5n}(e^x)^{-3n-1}/(2n), \text{Ne}(n, 0)), (x^{5n}(e^x)^{-3n-1}\log(x), \text{True})) + A^{3c} \text{Piecewise}(x^{3n}(e^x)^{-3n-1}\log(x) + 3A^{3cd} \text{Piecewise}(x^{4n}(e^x)^{-3n-1}/n, \text{Ne}(n, 0)), (x^{4n}(e^x)^{-3n-1}\log(x), \text{True})) + 3A^{3cd} \text{Piecewise}(x^{5n}(e^x)^{-3n-1}/(2n), \text{Ne}(n, 0)), (x^{5n}(e^x)^{-3n-1}\log(x), \text{True})) + A^{3d} \text{Piecewise}(x^{6n}(e^x)^{-3n-1}/(3n), \text{Ne}(n, 0)), (x^{6n}(e^x)^{-3n-1}\log(x), \text{True})) + B^{3c} \text{Piecewise}((-x^{3n}(e^x)^{-3n-1}/(2n), \text{Ne}(n, 0)), (x^{3n}(e^x)^{-3n-1}\log(x), \text{True})) + 3B^{3cd} \text{Piecewise}((-x^{2n}(e^x)^{-3n-1}/n, \text{Ne}(n, 0)), (x^{2n}(e^x)^{-3n-1}\log(x), \text{True})) + 3B^{3cd} \text{Piecewise}(x^{3n}(e^x)^{-3n-1}\log(x) + B^{3d} \text{Piecewise}(x^{4n}(e^x)^{-3n-1}/n, \text{Ne}(n, 0)), (x^{4n}(e^x)^{-3n-1}\log(x), \text{True})) + 3B^{2bc} \text{Piecewise}((-x^{2n}(e^x)^{-3n-1}/n, \text{Ne}(n, 0)), (x^{2n}(e^x)^{-3n-1}\log(x), \text{True})) + 9B^{2bcd} \text{Piecewise}(x^{3n}(e^x)^{-3n-1}\log(x) + 9B^{2bd} \text{Piecewise}(x^{4n}(e^x)^{-3n-1}/n, \text{Ne}(n, 0)), (x^{4n}(e^x)^{-3n-1}\log(x), \text{True})) + 3B^{2bcd} \text{Piecewise}(x^{5n}(e^x)^{-3n-1}/(2n), \text{Ne}(n, 0)), (x^{5n}(e^x)^{-3n-1}\log(x), \text{True})) + 3B^{2bcd} \text{Piecewise}(x^{4n}(e^x)^{-3n-1}/n, \text{Ne}(n, 0)), (x^{4n}(e^x)^{-3n-1}\log(x), \text{True})) + 9B^{2bcd} \text{Piecewise}(x^{5n}(e^x)^{-3n-1}/(2n), \text{Ne}(n, 0)), (x^{5n}(e^x)^{-3n-1}\log(x), \text{True})) + 3B^{2bcd} \text{Piecewise}(x^{6n}(e^x)^{-3n-1}/(3n), \text{Ne}(n, 0)), (x^{6n}(e^x)^{-3n-1}\log(x), \text{True})) + B^{3c} \text{Piecewise}(x^{4n}(e^x)^{-3n-1}/n, \text{Ne}(n, 0)), (x^{4n}(e^x)^{-3n-1}\log(x), \text{True})) + 3B^{3cd} \text{Piecewise}(x^{5n}(e^x)^{-3n-1}/(2n), \text{Ne}(n, 0)), (x^{5n}(e^x)^{-3n-1}\log(x), \text{True})) + 3B^{3cd} \text{Piecewise}(x^{6n}(e^x)^{-3n-1}/(3n), \text{Ne}(n, 0)), (x^{6n}(e^x)^{-3n-1}\log(x), \text{True}))$

$$\begin{aligned}
& *n - 1) \log(x), \text{True})) + B*b**3*d**3*Piecewise((x*x**(7*n)*(e*x)**(-3*n - 1) \\
&)/(4*n), \text{Ne}(n, 0)), (x*x**(7*n)*(e*x)**(-3*n - 1) \log(x), \text{True})), \text{Eq}(m, -3* \\
& n - 1)), (A*a**3*c**3*Piecewise((0**(-2*n - 1)*x, \text{Eq}(e, 0)), (Piecewise((-1 \\
& / (2*n*(e*x)**(2*n)), \text{Ne}(n, 0)), (\log(e*x), \text{True}))/e, \text{True})) + 3*A*a**3*c**2 \\
& *d*Piecewise((-x*x**n*(e*x)**(-2*n - 1)/n, \text{Ne}(n, 0)), (x*x**n*(e*x)**(-2*n \\
& - 1) \log(x), \text{True})) + 3*A*a**3*c*d**2*x*x**(2*n)*(e*x)**(-2*n - 1) \log(x) + \\
& A*a**3*d**3*Piecewise((x*x**(3*n)*(e*x)**(-2*n - 1)/n, \text{Ne}(n, 0)), (x*x**(3 \\
& *n)*(e*x)**(-2*n - 1) \log(x), \text{True})) + 3*A*a**2*b*c**3*Piecewise((-x*x**n*(\\
& e*x)**(-2*n - 1)/n, \text{Ne}(n, 0)), (x*x**n*(e*x)**(-2*n - 1) \log(x), \text{True})) + 9 \\
& *A*a**2*b*c**2*d*x*x**(2*n)*(e*x)**(-2*n - 1) \log(x) + 9*A*a**2*b*c*d**2*Pi \\
& ecewise((x*x**(3*n)*(e*x)**(-2*n - 1)/n, \text{Ne}(n, 0)), (x*x**(3*n)*(e*x)**(-2* \\
& n - 1) \log(x), \text{True})) + 3*A*a**2*b*d**3*Piecewise((x*x**(4*n)*(e*x)**(-2*n \\
& - 1)/(2*n), \text{Ne}(n, 0)), (x*x**(4*n)*(e*x)**(-2*n - 1) \log(x), \text{True})) + 3*A*a \\
& *b**2*c**3*x*x**(2*n)*(e*x)**(-2*n - 1) \log(x) + 9*A*a*b**2*c**2*d*Piecis \\
& e((x*x**(3*n)*(e*x)**(-2*n - 1)/n, \text{Ne}(n, 0)), (x*x**(3*n)*(e*x)**(-2*n - 1) \\
& * \log(x), \text{True})) + 9*A*a*b**2*c*d**2*Piecewise((x*x**(4*n)*(e*x)**(-2*n - 1) \\
& / (2*n), \text{Ne}(n, 0)), (x*x**(4*n)*(e*x)**(-2*n - 1) \log(x), \text{True})) + 3*A*a*b** \\
& 2*d**3*Piecewise((x*x**(5*n)*(e*x)**(-2*n - 1)/(3*n), \text{Ne}(n, 0)), (x*x**(5*n) \\
&)*(e*x)**(-2*n - 1) \log(x), \text{True})) + A*b**3*c**3*Piecewise((x*x**(3*n)*(e*x) \\
&)**(-2*n - 1)/n, \text{Ne}(n, 0)), (x*x**(3*n)*(e*x)**(-2*n - 1) \log(x), \text{True})) + \\
& 3*A*b**3*c**2*d*Piecewise((x*x**(4*n)*(e*x)**(-2*n - 1)/(2*n), \text{Ne}(n, 0)), (\\
& x*x**(4*n)*(e*x)**(-2*n - 1) \log(x), \text{True})) + 3*A*b**3*c*d**2*Piecewise((x* \\
& x**(5*n)*(e*x)**(-2*n - 1)/(3*n), \text{Ne}(n, 0)), (x*x**(5*n)*(e*x)**(-2*n - 1)* \\
& \log(x), \text{True})) + A*b**3*d**3*Piecewise((x*x**(6*n)*(e*x)**(-2*n - 1)/(4*n), \\
& \text{Ne}(n, 0)), (x*x**(6*n)*(e*x)**(-2*n - 1) \log(x), \text{True})) + B*a**3*c**3*Piec \\
& ewise((-x*x**n*(e*x)**(-2*n - 1)/n, \text{Ne}(n, 0)), (x*x**n*(e*x)**(-2*n - 1)*lo \\
& g(x), \text{True})) + 3*B*a**3*c**2*d*x*x**(2*n)*(e*x)**(-2*n - 1) \log(x) + 3*B*a* \\
& *3*c*d**2*Piecewise((x*x**(3*n)*(e*x)**(-2*n - 1)/n, \text{Ne}(n, 0)), (x*x**(3*n) \\
& *(e*x)**(-2*n - 1) \log(x), \text{True})) + B*a**3*d**3*Piecewise((x*x**(4*n)*(e*x) \\
&)**(-2*n - 1)/(2*n), \text{Ne}(n, 0)), (x*x**(4*n)*(e*x)**(-2*n - 1) \log(x), \text{True})) \\
& + 3*B*a**2*b*c**3*x*x**(2*n)*(e*x)**(-2*n - 1) \log(x) + 9*B*a**2*b*c**2*d* \\
& Piecewise((x*x**(3*n)*(e*x)**(-2*n - 1)/n, \text{Ne}(n, 0)), (x*x**(3*n)*(e*x)**(- \\
& 2*n - 1) \log(x), \text{True})) + 9*B*a**2*b*c*d**2*Piecewise((x*x**(4*n)*(e*x)**(- \\
& 2*n - 1)/(2*n), \text{Ne}(n, 0)), (x*x**(4*n)*(e*x)**(-2*n - 1) \log(x), \text{True})) + 3 \\
& *B*a**2*b*d**3*Piecewise((x*x**(5*n)*(e*x)**(-2*n - 1)/(3*n), \text{Ne}(n, 0)), (x \\
& *x**(5*n)*(e*x)**(-2*n - 1) \log(x), \text{True})) + 3*B*a*b**2*c**3*Piecewise((x*x \\
& ** (3*n)*(e*x)**(-2*n - 1)/n, \text{Ne}(n, 0)), (x*x**(3*n)*(e*x)**(-2*n - 1) \log(x) \\
&), \text{True})) + 9*B*a*b**2*c**2*d*Piecewise((x*x**(4*n)*(e*x)**(-2*n - 1)/(2*n) \\
& , \text{Ne}(n, 0)), (x*x**(4*n)*(e*x)**(-2*n - 1) \log(x), \text{True})) + 9*B*a*b**2*c*d* \\
& *2*Piecewise((x*x**(5*n)*(e*x)**(-2*n - 1)/(3*n), \text{Ne}(n, 0)), (x*x**(5*n)*(e \\
& *x)**(-2*n - 1) \log(x), \text{True})) + 3*B*a*b**2*d**3*Piecewise((x*x**(6*n)*(e*x) \\
&)**(-2*n - 1)/(4*n), \text{Ne}(n, 0)), (x*x**(6*n)*(e*x)**(-2*n - 1) \log(x), \text{True}) \\
&) + B*b**3*c**3*Piecewise((x*x**(4*n)*(e*x)**(-2*n - 1)/(2*n), \text{Ne}(n, 0)), (\\
& x*x**(4*n)*(e*x)**(-2*n - 1) \log(x), \text{True})) + 3*B*b**3*c**2*d*Piecewise((x* \\
& x**(5*n)*(e*x)**(-2*n - 1)/(3*n), \text{Ne}(n, 0)), (x*x**(5*n)*(e*x)**(-2*n - 1)*
\end{aligned}$$

$\log(x), \text{True}) + 3*B*b**3*c*d**2*\text{Piecewise}((x*x**(6*n)*(e*x)**(-2*n - 1)/(4*n), \text{Ne}(n, 0)), (x*x**(6*n)*(e*x)**(-2*n - 1)*\log(x), \text{True})) + B*b**3*d**3*\text{Piecewise}((x*x**(7*n)*(e*x)**(-2*n - 1)/(5*n), \text{Ne}(n, 0)), (x*x**(7*n)*(e*x)**(-2*n - 1)*\log(x), \text{True})), \text{Eq}(m, -2*n - 1)), (A*a**3*c**3*\text{Piecewise}((0*(-n - 1)*x, \text{Eq}(e, 0)), (\text{Piecewise}((-1/(n*(e*x)**n), \text{Ne}(n, 0)), (\log(e*x), \text{True}))/e, \text{True})) + 3*A*a**3*c**2*d*x*x**n*(e*x)**(-n - 1)*\log(x) + 3*A*a**3*c*d**2*\text{Piecewise}((x*x**(2*n)*(e*x)**(-n - 1)/n, \text{Ne}(n, 0)), (x*x**(2*n)*(e*x)**(-n - 1)*\log(x), \text{True})) + A*a**3*d**3*\text{Piecewise}((x*x**(3*n)*(e*x)**(-n - 1)/(2*n), \text{Ne}(n, 0)), (x*x**(3*n)*(e*x)**(-n - 1)*\log(x), \text{True})) + 3*A*a**2*b*c**3*x*x**n*(e*x)**(-n - 1)*\log(x) + 9*A*a**2*b*c**2*d*\text{Piecewise}((x*x**(2*n)*(e*x)**(-n - 1)/n, \text{Ne}(n, 0)), (x*x**(2*n)*(e*x)**(-n - 1)*\log(x), \text{True})) + 9*A*a**2*b*c*d**2*\text{Piecewise}((x*x**(3*n)*(e*x)**(-n - 1)/(2*n), \text{Ne}(n, 0)), (x*x**(3*n)*(e*x)**(-n - 1)*\log(x), \text{True})) + 3*A*a**2*b*d**3*\text{Piecewise}((x*x**(4*n)*(e*x)**(-n - 1)/(3*n), \text{Ne}(n, 0)), (x*x**(4*n)*(e*x)**(-n - 1)*\log(x), \text{True})) + 3*A*a*b**2*c**3*\text{Piecewise}((x*x**(2*n)*(e*x)**(-n - 1)/n, \text{Ne}(n, 0)), (x*x**(2*n)*(e*x)**(-n - 1)*\log(x), \text{True})) + 9*A*a*b**2*c**2*d*\text{Piecewise}((x*x**(3*n)*(e*x)**(-n - 1)/(2*n), \text{Ne}(n, 0)), (x*x**(3*n)*(e*x)**(-n - 1)*\log(x), \text{True})) + 9*A*a*b**2*c*d**2*\text{Piecewise}((x*x**(4*n)*(e*x)**(-n - 1)/(3*n), \text{Ne}(n, 0)), (x*x**(4*n)*(e*x)**(-n - 1)*\log(x), \text{True})) + 3*A*a*b**2*d**3*\text{Piecewise}((x*x**(5*n)*(e*x)**(-n - 1)/(4*n), \text{Ne}(n, 0)), (x*x**(5*n)*(e*x)**(-n - 1)*\log(x), \text{True})) + A*b**3*c**3*\text{Piecewise}((x*x**(3*n)*(e*x)**(-n - 1)/(2*n), \text{Ne}(n, 0)), (x*x**(3*n)*(e*x)**(-n - 1)*\log(x), \text{True})) + 3*A*b**3*c**2*d*\text{Piecewise}((x*x**(4*n)*(e*x)**(-n - 1)/(3*n), \text{Ne}(n, 0)), (x*x**(4*n)*(e*x)**(-n - 1)*\log(x), \text{True})) + 3*A*b**3*c*d**2*\text{Piecewise}((x*x**(5*n)*(e*x)**(-n - 1)/(4*n), \text{Ne}(n, 0)), (x*x**(5*n)*(e*x)**(-n - 1)*\log(x), \text{True})) + A*b**3*d**3*\text{Piecewise}((x*x**(6*n)*(e*x)**(-n - 1)/(5*n), \text{Ne}(n, 0)), (x*x**(6*n)*(e*x)**(-n - 1)*\log(x), \text{True})) + B*a**3*c**3*x*x**n*(e*x)**(-n - 1)*\log(x) + 3*B*a**3*c**2*d*\text{Piecewise}((x*x**(2*n)*(e*x)**(-n - 1)/n, \text{Ne}(n, 0)), (x*x**(2*n)*(e*x)**(-n - 1)*\log(x), \text{True})) + 3*B*a**3*c*d**2*\text{Piecewise}((x*x**(3*n)*(e*x)**(-n - 1)/(2*n), \text{Ne}(n, 0)), (x*x**(3*n)*(e*x)**(-n - 1)*\log(x), \text{True})) + B*a**3*d**3*\text{Piecewise}((x*x**(4*n)*(e*x)**(-n - 1)/(3*n), \text{Ne}(n, 0)), (x*x**(4*n)*(e*x)**(-n - 1)*\log(x), \text{True})) + 3*B*a**2*b*c**3*\text{Piecewise}((x*x**(2*n)*(e*x)**(-n - 1)/n, \text{Ne}(n, 0)), (x*x**(2*n)*(e*x)**(-n - 1)*\log(x), \text{True})) + 9*B*a**2*b*c**2*d*\text{Piecewise}((x*x**(3*n)*(e*x)**(-n - 1)/(2*n), \text{Ne}(n, 0)), (x*x**(3*n)*(e*x)**(-n - 1)*\log(x), \text{True})) + 9*B*a**2*b*c*d**2*\text{Piecewise}((x*x**(4*n)*(e*x)**(-n - 1)/(3*n), \text{Ne}(n, 0)), (x*x**(4*n)*(e*x)**(-n - 1)*\log(x), \text{True})) + 3*B*a**2*b*d**3*\text{Piecewise}((x*x**(5*n)*(e*x)**(-n - 1)/(4*n), \text{Ne}(n, 0)), (x*x**(5*n)*(e*x)**(-n - 1)*\log(x), \text{True})) + 3*B*a*b**2*c**3*\text{Piecewise}((x*x**(3*n)*(e*x)**(-n - 1)/(2*n), \text{Ne}(n, 0)), (x*x**(3*n)*(e*x)**(-n - 1)*\log(x), \text{True})) + 9*B*a*b**2*c**2*d*\text{Piecewise}((x*x**(4*n)*(e*x)**(-n - 1)/(3*n), \text{Ne}(n, 0)), (x*x**(4*n)*(e*x)**(-n - 1)*\log(x), \text{True})) + 9*B*a*b**2*c*d**2*\text{Piecewise}((x*x**(5*n)*(e*x)**(-n - 1)/(4*n), \text{Ne}(n, 0)), (x*x**(5*n)*(e*x)**(-n - 1)*\log(x), \text{True})) + 3*B*a*b**2*d**3*\text{Piecewise}((x*x**(6*n)*(e*x)**(-n - 1)/(5*n), \text{Ne}(n, 0)), (x*x**(6*n)*(e*x)**(-n - 1)*\log(x), \text{True})) + B*b**3*c**3*\text{Piecewise}((x*x**(4*n)*(e*x)**(-n - 1)/(3*n)$

, $Ne(n, 0)$), $(x^{4n}(e^x)^{-n-1}\log(x), \text{True})) + 3B^3c^2d$
 $iecewise((x^{5n}(e^x)^{-n-1}/(4n), Ne(n, 0)), (x^{5n}(e^x)^{-n-1}\log(x), \text{True})) + 3B^3c^d$
 $2\Piecewise((x^{6n}(e^x)^{-n-1}/(5n), Ne(n, 0)), (x^{6n}(e^x)^{-n-1}\log(x), \text{True})) + B^3c^d$
 $3\Piecewise((x^{7n}(e^x)^{-n-1}/(6n), Ne(n, 0)), (x^{7n}(e^x)^{-n-1}\log(x), \text{True})), Eq(m, -n - 1)), (A^3c^3m^7x(e^x)^m/($
 $m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3$
 $+ 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6$
 $+ 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^2n^7 + 26136m^2n^6 + 39396m^2n^5 + 27076m^2n^4$
 $+ 9800m^2n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040m^2n^7 + 13068m^2n^6 + 13132m^2n^5 + 6769m^2n^4 + 1960m^2n^3 + 322m^2n^2 + 28m^2 + 1)$
 $+ 28A^3c^3m^6nx(e^x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4$
 $+ 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6$
 $+ 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^2n^7 + 26136m^2n^6 + 39396m^2n^5 + 27076m^2n^4$
 $+ 9800m^2n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040m^2n^7 + 13068m^2n^6 + 13132m^2n^5 + 6769m^2n^4 + 1960m^2n^3 + 322m^2n^2 + 28m^2 + 1)$
 $+ 7A^3c^3m^6x(e^x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4$
 $+ 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6$
 $+ 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^2n^7 + 26136m^2n^6 + 39396m^2n^5 + 27076m^2n^4$
 $+ 9800m^2n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040m^2n^7 + 13068m^2n^6 + 13132m^2n^5 + 6769m^2n^4 + 1960m^2n^3 + 322m^2n^2 + 28m^2 + 1)$
 $+ 322A^3c^3m^5n^2x(e^x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4$
 $+ 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6$
 $+ 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^2n^7 + 26136m^2n^6 + 39396m^2n^5 + 27076m^2n^4$
 $+ 9800m^2n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040m^2n^7 + 13068m^2n^6 + 13132m^2n^5 + 6769m^2n^4 + 1960m^2n^3 + 322m^2n^2 + 28m^2 + 1)$
 $+ 168A^3c^3m^5nx(e^x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4$
 $+ 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6$
 $+ 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^2n^7 + 26136m^2n^6 + 39396m^2n^5 + 40614m^2n^4$
 $+ 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^2n^7 + 2$

$$\begin{aligned}
& 6136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196 \\
& *m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + \\
& 322*n**2 + 28*n + 1) + 21*A*a**3*c**3*m**5*x*(e*x)**m/(m**8 + 28*m**7*n + 8 \\
& *m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n \\
& **2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n* \\
& *2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3* \\
& n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2 \\
& *n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 2 \\
& 8*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m \\
& n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + \\
& 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 1960*A*a**3*c**3*m**4*n**3*x \\
& *(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 \\
& + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 \\
& + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 \\
& + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 \\
& + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + \\
& 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396* \\
& m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n* \\
& *7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) \\
& + 1610*A*a**3*c**3*m**4*n**2*x*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m \\
& **6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m** \\
& 5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4 \\
& *n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m \\
& **3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614 \\
& *m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040 \\
& *m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m \\
& *n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1 \\
& 960*n**3 + 322*n**2 + 28*n + 1) + 420*A*a**3*c**3*m**4*n*x*(e*x)**m/(m**8 + \\
& 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 \\
& + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 \\
& + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 \\
& + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n** \\
& 6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + \\
& 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m \\
& n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + \\
& 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 35*A*a**3*c**3 \\
& *m**4*x*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + \\
& 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m** \\
& 4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m** \\
& 3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + \\
& 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2* \\
& n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + \\
& 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + \\
& 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28 \\
& *n + 1) + 6769*A*a**3*c**3*m**3*n**4*x*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7
\end{aligned}$$

+ 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 7840*A*a**3*c**3*m**3*n**3*x*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 3220*A*a**3*c**3*m**3*n**2*x*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 560*A*a**3*c**3*m**3*n*x*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 35*A*a**3*c**3*m**3*x*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 13132*A*a**3*c**3*m**2*n**5*x*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440

$$\begin{aligned}
& m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 406 \\
& 14m^{*2}n^{*4} + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 50 \\
& 40m^{*n}n^{*7} + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932 \\
& m^{*n}n^{*2} + 196m^{*n} + 8m + 5040n^{*7} + 13068n^{*6} + 13132n^{*5} + 6769n^{*4} + \\
& 1960n^{*3} + 322n^{*2} + 28n + 1) + 20307Aa^{*3}c^{*3}m^{*2}n^{*4}x(e^x)^{**}/ \\
& (m^{*8} + 28m^{*7}n + 8m^{*7} + 322m^{*6}n^{*2} + 196m^{*6}n + 28m^{*6} + 1960m^{* \\
& *5n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{* \\
& 4n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{* \\
& *3n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3} + 13068m^{* \\
& **2n^{*6} + 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + 4830m^{*2}n^{* \\
& n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} + 2 \\
& 7076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196m^{*n} + 8m + 5040n^{*7} + 13068 \\
& n^{*6} + 13132n^{*5} + 6769n^{*4} + 1960n^{*3} + 322n^{*2} + 28n + 1) + 11760A \\
& a^{*3}c^{*3}m^{*2}n^{*3}x(e^x)^{**}/(m^{*8} + 28m^{*7}n + 8m^{*7} + 322m^{*6}n^{*2} \\
& + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5}n + 56m^{* \\
& *5 + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{* \\
& **4 + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} \\
& + 980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m^{*2}n^{* \\
& 4 + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + \\
& 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 1 \\
& 96m^{*n} + 8m + 5040n^{*7} + 13068n^{*6} + 13132n^{*5} + 6769n^{*4} + 1960n^{*3} \\
& + 322n^{*2} + 28n + 1) + 3220Aa^{*3}c^{*3}m^{*2}n^{*2}x(e^x)^{**}/(m^{*8} + 28m^{* \\
& **7n + 8m^{*7} + 322m^{*6}n^{*2} + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 19 \\
& 32m^{*5}n^{*2} + 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 483 \\
& 0m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 19 \\
& 600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} + 3 \\
& 9396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588m^{* \\
& **2n + 28m^{*2} + 5040m^{*n}n^{*7} + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} + 27076m^{*n}n^{*4} \\
& + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196m^{*n} + 8m + 5040n^{*7} + 13068n^{*6} + 1313 \\
& 2n^{*5} + 6769n^{*4} + 1960n^{*3} + 322n^{*2} + 28n + 1) + 420Aa^{*3}c^{*3}m^{* \\
& 2}n^{*x}(e^x)^{**}/(m^{*8} + 28m^{*7}n + 8m^{*7} + 322m^{*6}n^{*2} + 196m^{*6}n + 28 \\
& m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{* \\
& n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{* \\
& n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980m^{*3}n + 56 \\
& m^{*3} + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 19600m^{*2}n^{* \\
& *3 + 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + 26136m^{*n}n^{*6} + 3 \\
& 9396m^{*n}n^{*5} + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196m^{*n} + 8m + 50 \\
& 40n^{*7} + 13068n^{*6} + 13132n^{*5} + 6769n^{*4} + 1960n^{*3} + 322n^{*2} + 28n \\
& + 1) + 21Aa^{*3}c^{*3}m^{*2}x(e^x)^{**}/(m^{*8} + 28m^{*7}n + 8m^{*7} + 322m^{* \\
& 6}n^{*2} + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5}n \\
& n + 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n \\
& + 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{* \\
& 3}n^{*2} + 980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m^{* \\
& **2}n^{*4} + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{* \\
& n^{*7} + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}
\end{aligned}$$

$$\begin{aligned}
& **2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 196 \\
& 0*n**3 + 322*n**2 + 28*n + 1) + 13068*A*a**3*c**3*m*n**6*x*(e*x)**m/(m**8 + \\
& 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 \\
& + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 \\
& + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 \\
& + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n** \\
& 6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + \\
& 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m* \\
& n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + \\
& 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 26264*A*a**3*c \\
& **3*m*n**5*x*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6 \\
& *n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 676 \\
& 9*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 1313 \\
& 2*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3 \\
& *n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600* \\
& m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n \\
& **6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8 \\
& *m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 \\
& + 28*n + 1) + 20307*A*a**3*c**3*m*n**4*x*(e*x)**m/(m**8 + 28*m**7*n + 8*m* \\
& *7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 \\
& + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 \\
& + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n** \\
& 3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n* \\
& *5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m \\
& **2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n** \\
& 3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 676 \\
& 9*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 7840*A*a**3*c**3*m*n**3*x*(e*x) \\
& **m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 196 \\
& 0*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800 \\
& *m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 2707 \\
& 6*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 130 \\
& 68*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m \\
& **2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 \\
& + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 1 \\
& 3068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 161 \\
& 0*A*a**3*c**3*m*n**2*x*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 \\
& + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56* \\
& m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m \\
& **4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 \\
& + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n** \\
& 4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + \\
& 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 1 \\
& 96*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 \\
& + 322*n**2 + 28*n + 1) + 168*A*a**3*c**3*m*n*x*(e*x)**m/(m**8 + 28*m**7*n + \\
& 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5
\end{aligned}$$

$$\begin{aligned}
& *n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}* \\
& n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3} \\
& 3*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2} \\
& *n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + \\
& 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800* \\
& m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} \\
& + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 7*A*a^{**3}*c^{**3}*m*x*(e*x)**m \\
& /(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m \\
& **5*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4} \\
& *n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m \\
& **3*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068* \\
& m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2} \\
& *n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + \\
& 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 1306 \\
& 8*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 5040*A \\
& *a^{**3}*c^{**3}*n^{**7}*x*(e*x)**m/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196 \\
& *m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} \\
& + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + \\
& 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980 \\
& *m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 1 \\
& 9600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 2613 \\
& 6*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m \\
& n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322 \\
& *n^{**2} + 28*n + 1) + 13068*A*a^{**3}*c^{**3}*n^{**6}*x*(e*x)**m/(m^{**8} + 28*m^{**7}*n + 8 \\
& *m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n \\
& **2 + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n* \\
& *2 + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3} \\
& n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2} \\
& *n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 2 \\
& 8*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m \\
& n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + \\
& 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 13132*A*a^{**3}*c^{**3}*n^{**5}*x*(e \\
& x)**m/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1 \\
& 960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 98 \\
& 00*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27 \\
& 076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 1 \\
& 3068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830 \\
& *m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n \\
& *5 + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + \\
& 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 6 \\
& 769*A*a^{**3}*c^{**3}*n^{**4}*x*(e*x)**m/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} \\
& + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56* \\
& m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m \\
& **4 + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} \\
& + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**
\end{aligned}$$

$$\begin{aligned}
& 4 + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + 5040m*n^{**7} + \\
& 26136m*n^{**6} + 39396m*n^{**5} + 27076m*n^{**4} + 9800m*n^{**3} + 1932m*n^{**2} + 1 \\
& 96m*n + 8m + 5040n^{**7} + 13068n^{**6} + 13132n^{**5} + 6769n^{**4} + 1960n^{**3} \\
& + 322n^{**2} + 28n + 1) + 1960Aa^{**3}c^{**3}n^{**3}x*(e*x)**m/(m^{**8} + 28m^{**7}n \\
& + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**3} + 1932m* \\
& *5n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**3} + 4830m^{**} \\
& 4n^{**2} + 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} + 27076m^{**3}n^{**4} + 19600m* \\
& **3n^{**3} + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} + 13068m^{**2}n^{**6} + 39396* \\
& m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588m^{**2}n \\
& + 28m^{**2} + 5040m*n^{**7} + 26136m*n^{**6} + 39396m*n^{**5} + 27076m*n^{**4} + 980 \\
& 0m*n^{**3} + 1932m*n^{**2} + 196m*n + 8m + 5040n^{**7} + 13068n^{**6} + 13132n^{**} \\
& 5 + 6769n^{**4} + 1960n^{**3} + 322n^{**2} + 28n + 1) + 322Aa^{**3}c^{**3}n^{**2}x*(\\
& e*x)**m/(m^{**8} + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} + \\
& 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} + \\
& 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} + \\
& 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} + \\
& 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} + 48 \\
& 30m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + 5040m*n^{**7} + 26136m*n^{**6} + 39396m* \\
& n^{**5} + 27076m*n^{**4} + 9800m*n^{**3} + 1932m*n^{**2} + 196m*n + 8m + 5040n^{**7} \\
& + 13068n^{**6} + 13132n^{**5} + 6769n^{**4} + 1960n^{**3} + 322n^{**2} + 28n + 1) + \\
& 28Aa^{**3}c^{**3}n*x*(e*x)**m/(m^{**8} + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 1 \\
& 96m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} + 588m^{**5}n + 56m^{**} \\
& 5 + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} \\
& + 13132m^{**3}n^{**5} + 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} + 9 \\
& 80m^{**3}n + 56m^{**3} + 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} + \\
& 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + 5040m*n^{**7} + 26 \\
& 136m*n^{**6} + 39396m*n^{**5} + 27076m*n^{**4} + 9800m*n^{**3} + 1932m*n^{**2} + 196* \\
& m*n + 8m + 5040n^{**7} + 13068n^{**6} + 13132n^{**5} + 6769n^{**4} + 1960n^{**3} + 3 \\
& 22n^{**2} + 28n + 1) + Aa^{**3}c^{**3}x*(e*x)**m/(m^{**8} + 28m^{**7}n + 8m^{**7} + 3 \\
& 22m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} + 588 \\
& *m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} + 980* \\
& m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} + 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} + 64 \\
& 40m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} + 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} + 4 \\
& 0614m^{**2}n^{**4} + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + \\
& 5040m*n^{**7} + 26136m*n^{**6} + 39396m*n^{**5} + 27076m*n^{**4} + 9800m*n^{**3} + 19 \\
& 32m*n^{**2} + 196m*n + 8m + 5040n^{**7} + 13068n^{**6} + 13132n^{**5} + 6769n^{**4} \\
& + 1960n^{**3} + 322n^{**2} + 28n + 1) + 3Aa^{**3}c^{**2}d*m^{**7}x*x**n*(e*x)**m/ \\
& (m^{**8} + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} + 1960m* \\
& *5n^{**3} + 1932m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**} \\
& 4n^{**3} + 4830m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} + 27076m* \\
& *3n^{**4} + 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} + 13068m* \\
& **2n^{**6} + 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} + 4830m^{**2}* \\
& n^{**2} + 588m^{**2}n + 28m^{**2} + 5040m*n^{**7} + 26136m*n^{**6} + 39396m*n^{**5} + 2 \\
& 7076m*n^{**4} + 9800m*n^{**3} + 1932m*n^{**2} + 196m*n + 8m + 5040n^{**7} + 13068 \\
& *n^{**6} + 13132n^{**5} + 6769n^{**4} + 1960n^{**3} + 322n^{**2} + 28n + 1) + 81Aa*
\end{aligned}$$

$$\begin{aligned}
& *3*c**2*d*m**6*n*x*x**n*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 \\
& + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56 \\
& *m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70* \\
& m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 \\
& + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n* \\
& *4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 \\
& + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + \\
& 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 \\
& + 322*n**2 + 28*n + 1) + 21*A*a**3*c**2*d*m**6*x*x**n*(e*x)**m/(m**8 + 28* \\
& m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1 \\
& 932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 48 \\
& 30*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 1 \\
& 9600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + \\
& 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588* \\
& m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 \\
& + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 131 \\
& 32*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 885*A*a**3*c**2*d* \\
& m**5*n**2*x*x**n*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196* \\
& m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + \\
& 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + \\
& 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980* \\
& m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19 \\
& 600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136 \\
& *m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n \\
& + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322* \\
& n**2 + 28*n + 1) + 486*A*a**3*c**2*d*m**5*n*x*x**n*(e*x)**m/(m**8 + 28*m**7 \\
& *n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932* \\
& m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m \\
& **4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600 \\
& *m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 3939 \\
& 6*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2 \\
& *n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9 \\
& 800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n \\
& **5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 63*A*a**3*c**2*d*m**5* \\
& x*x**n*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 2 \\
& 8*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4 \\
& *n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3 \\
& *n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 5 \\
& 6*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n \\
& **3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + \\
& 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5 \\
& 040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28* \\
& n + 1) + 4995*A*a**3*c**2*d*m**4*n**3*x*x**n*(e*x)**m/(m**8 + 28*m**7*n + 8 \\
& *m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n \\
& **2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n*
\end{aligned}$$

$$\begin{aligned}
& + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + 5040m^{*}n^{**7} + 26136m^{*}n^{**6} + 39396m^{*}n^{**5} + 27076m^{*}n^{**4} + 9800m^{*}n^{**3} + 1932m^{*}n^{**2} + 196m^{*}n + 8m + 5040n^{**7} + 13068n^{**6} + 13132n^{**5} + 6769n^{**4} + 1960n^{**3} + 322n^{**2} + 28n + 1) \\
& + 8850A^{*}a^{**3}c^{**2}d^{*}m^{**3}n^{**2}x^{*}x^{*}n^{*}(e^{*}x)^{**m}/(m^{**8} + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} \\
& + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} + 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} \\
& + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} + 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + 5040m^{*}n^{**7} + 26136m^{*}n^{**6} + 39396m^{*}n^{**5} + 27076m^{*}n^{**4} + 9800m^{*}n^{**3} \\
& + 1932m^{*}n^{**2} + 196m^{*}n + 8m + 5040n^{**7} + 13068n^{**6} + 13132n^{**5} + 6769n^{**4} + 1960n^{**3} + 322n^{**2} + 28n + 1) + 1620A^{*}a^{**3}c^{**2}d^{*}m^{**3}n^{*}x^{*}x^{*}n^{*}(e^{*}x)^{**m}/(m^{**8} + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} \\
& + 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} + 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} \\
& + 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + 5040m^{*}n^{**7} + 26136m^{*}n^{**6} + 39396m^{*}n^{**5} + 27076m^{*}n^{**4} + 9800m^{*}n^{**3} + 1932m^{*}n^{**2} + 196m^{*}n + 8m + 5040n^{**7} + 13068n^{**6} + 13132n^{**5} + 6769n^{**4} + 1960n^{**3} + 322n^{**2} + 28n + 1) \\
& + 105A^{*}a^{**3}c^{**2}d^{*}m^{**3}x^{*}x^{*}n^{*}(e^{*}x)^{**m}/(m^{**8} + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} + 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} + 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + 5040m^{*}n^{**7} + 26136m^{*}n^{**6} + 39396m^{*}n^{**5} + 27076m^{*}n^{**4} + 9800m^{*}n^{**3} + 1932m^{*}n^{**2} + 196m^{*}n + 8m + 5040n^{**7} + 13068n^{**6} + 13132n^{**5} + 6769n^{**4} + 1960n^{**3} + 322n^{**2} + 28n + 1) + 24084A^{*}a^{**3}c^{**2}d^{*}m^{**2}n^{**5}x^{*}x^{*}n^{*}(e^{*}x)^{**m}/(m^{**8} + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} + 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} + 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + 5040m^{*}n^{**7} + 26136m^{*}n^{**6} + 39396m^{*}n^{**5} + 27076m^{*}n^{**4} + 9800m^{*}n^{**3} + 1932m^{*}n^{**2} + 196m^{*}n + 8m + 5040n^{**7} + 13068n^{**6} + 13132n^{**5} + 6769n^{**4} + 1960n^{**3} + 322n^{**2} + 28n + 1) + 45936A^{*}a^{**3}c^{**2}d^{*}m^{**2}n^{**4}x^{*}x^{*}n^{*}(e^{*}x)^{**m}/(m^{**8} + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} + 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} + 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + 5040m^{*}n^{**7} + 26136m^{*}n^{**6} + 39396m^{*}n^{**5} + 27076m^{*}n^{**4} + 9800m^{*}n^{**3} + 1932m^{*}n^{**2} + 196m^{*}n + 8m + 5040n^{**7} + 13068n^{**6} + 13132n^{**5} + 6769n^{**4}
\end{aligned}$$

$$\begin{aligned}
& + 1960n^3 + 322n^2 + 28n + 1) + 29970A^3c^2d^2m^2n^3x^2x^n \\
& (ex)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 \\
& + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + \\
& 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + \\
& 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 \\
& + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4 \\
& 830m^2n^2 + 588m^2n + 28m^2 + 5040m^7n + 26136m^6n + 39396m \\
& n^5 + 27076m^4n + 9800m^3n^3 + 1932m^3n^2 + 196m^3n + 8m + 5040n^7 \\
& + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) \\
& + 8850A^3c^2d^2m^2n^2x^2x^n(ex)^m / (m^8 + 28m^7n + 8m^7 + \\
& 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 5 \\
& 88m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 98 \\
& 0m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + \\
& 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + \\
& 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 \\
& + 5040m^7n + 26136m^6n + 39396m^5n + 27076m^4n + 9800m^3n^3 + \\
& 1932m^3n^2 + 196m^3n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^ \\
& *4 + 1960n^3 + 322n^2 + 28n + 1) + 1215A^3c^2d^2m^2n^2x^2x^n(ex)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + \\
& 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9 \\
& 800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 2 \\
& 7076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + \\
& 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 483 \\
& 0m^2n^2 + 588m^2n + 28m^2 + 5040m^7n + 26136m^6n + 39396m^5n \\
& + 27076m^4n + 9800m^3n^3 + 1932m^3n^2 + 196m^3n + 8m + 5040n^7 \\
& + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + \\
& 63A^3c^2d^2m^2n^2x^2x^n(ex)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 \\
& + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + \\
& + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n \\
& + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^3 \\
& n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^ \\
& *2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^ \\
& n^7 + 26136m^6n + 39396m^5n + 27076m^4n + 9800m^3n^3 + 1932m^3n^ \\
& *2 + 196m^3n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960 \\
& n^3 + 322n^2 + 28n + 1) + 15120A^3c^2d^2m^2n^6x^2x^n(ex)^m / (\\
& m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5 \\
& n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4 \\
& n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3 \\
& n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^ \\
& *2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^ \\
& **2 + 588m^2n + 28m^2 + 5040m^7n + 26136m^6n + 39396m^5n + 27 \\
& 076m^4n + 9800m^3n^3 + 1932m^3n^2 + 196m^3n + 8m + 5040n^7 + 13068 \\
& n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 48168A^ \\
& a^3c^2d^2m^2n^5x^2x^n(ex)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^ \\
& *2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n +
\end{aligned}$$

$$\begin{aligned}
& 56m^5 + 6769m^4n + 9800m^4n^2 + 4830m^4n^3 + 4830m^4n^4 + 980m^4n^5 + 70m^4n^6 + 13132m^3n^5 + 27076m^3n^6 + 19600m^3n^7 + 6440m^3n^8 \\
& + 980m^3n^9 + 56m^3n^{10} + 13068m^2n^{11} + 39396m^2n^{12} + 40614m^2n^{13} + 19600m^2n^{14} + 4830m^2n^{15} + 588m^2n^{16} + 28m^2n^{17} + 5040m^2n^{18} \\
& + 26136m^2n^{19} + 39396m^2n^{20} + 27076m^2n^{21} + 9800m^2n^{22} + 1932m^2n^{23} + 196m^2n^{24} + 8m^2n^{25} + 5040n^{26} + 13068n^{27} + 13132n^{28} + 6769n^{29} + 1960n^{30} \\
& + 322n^{31} + 28n^{32} + 1) + 45936A^3c^2d^4m^4n^4x^4(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^2n^7 + 26136m^2n^6 + 39396m^2n^5 + 27076m^2n^4 + 9800m^2n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 19980A^3c^2d^3m^3n^3x^3(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^2n^7 + 26136m^2n^6 + 39396m^2n^5 + 27076m^2n^4 + 9800m^2n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 4425A^3c^2d^2m^2n^2x^2(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^2n^7 + 26136m^2n^6 + 39396m^2n^5 + 27076m^2n^4 + 9800m^2n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 486A^3c^2d^4m^4n^4x^4(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^2n^7 + 26136m^2n^6 + 39396m^2n^5 + 27076m^2n^4 + 9800m^2n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 21A^3c^2d^4m^4n^4x^4(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^2n^7 + 26136m^2n^6 + 39396m^2n^5 + 27076m^2n^4 + 9800m^2n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 21A^3c^2d^4m^4n^4x^4(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^2n^7 + 26136m^2n^6 + 39396m^2n^5 + 27076m^2n^4 + 9800m^2n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1)
\end{aligned}$$

$$\begin{aligned}
& *5 + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m \\
& **2 + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} \\
& + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 676 \\
& 9*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 15120*A*a^{**3}*c^{**2}*d*n^{**6}*x*x^{**n} \\
& *(e*x)**m/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} \\
& + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} \\
& + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} \\
& + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} \\
& + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + \\
& 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m \\
& n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} \\
& + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) \\
& + 24084*A*a^{**3}*c^{**2}*d*n^{**5}*x*x^{**n}*(e*x)**m/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 32 \\
& 2*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588* \\
& m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m \\
& **4*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 644 \\
& 0*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40 \\
& 614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5 \\
& 040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 193 \\
& 2*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} \\
& + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 15312*A*a^{**3}*c^{**2}*d*n^{**4}*x*x^{**n}*(e*x)* \\
& **m/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960 \\
& *m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800* \\
& m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076 \\
& *m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 1306 \\
& 8*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m* \\
& *2*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} \\
& + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13 \\
& 068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 4995 \\
& *A*a^{**3}*c^{**2}*d*n^{**3}*x*x^{**n}*(e*x)**m/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n \\
& **2 + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + \\
& 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + \\
& 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n \\
& **2 + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2} \\
& *n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{** \\
& *7 + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} \\
& + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n \\
& **3 + 322*n^{**2} + 28*n + 1) + 885*A*a^{**3}*c^{**2}*d*n^{**2}*x*x^{**n}*(e*x)**m/(m^{**8} + \\
& 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} \\
& + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} \\
& + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} \\
& + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{** \\
& 6 + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + \\
& 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m* \\
& n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} +
\end{aligned}$$

$$\begin{aligned}
& 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 81*A*a**3*c**2 \\
& *d*n*x*x**n*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6* \\
& n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769 \\
& *m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132 \\
& *m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3* \\
& n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m \\
& **2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n* \\
& *6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8* \\
& m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 \\
& + 28*n + 1) + 3*A*a**3*c**2*d*x*x**n*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + \\
& 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 58 \\
& 8*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980 \\
& *m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6 \\
& 440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + \\
& 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + \\
& 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1 \\
& 932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n** \\
& 4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 3*A*a**3*c*d**2*m**7*x*x**(2*n)*(e*x \\
&)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 19 \\
& 60*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 980 \\
& 0*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 270 \\
& 76*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13 \\
& 068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830* \\
& m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n** \\
& 5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + \\
& 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 78 \\
& *A*a**3*c*d**2*m**6*n*x*x**(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322* \\
& m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m* \\
& *5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m** \\
& 4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440* \\
& m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 4061 \\
& 4*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 504 \\
& 0*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932* \\
& m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + \\
& 1960*n**3 + 322*n**2 + 28*n + 1) + 21*A*a**3*c*d**2*m**6*x*x**(2*n)*(e*x)** \\
& m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960* \\
& m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m \\
& **4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076* \\
& m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068 \\
& *m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m** \\
& 2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + \\
& 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 130 \\
& 68*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 810*A \\
& *a**3*c*d**2*m**5*n**2*x*x**(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322 \\
& *m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m
\end{aligned}$$

$$\begin{aligned}
& **5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m** \\
& *4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440 \\
& *m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 406 \\
& 14*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 50 \\
& 40*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932 \\
& *m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + \\
& 1960*n**3 + 322*n**2 + 28*n + 1) + 468*A*a**3*c*d**2*m**5*n*x*x**(2*n)*(e* \\
& x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1 \\
& 960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 98 \\
& 00*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27 \\
& 076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 1 \\
& 3068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830 \\
& *m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n* \\
& *5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + \\
& 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 6 \\
& 3*A*a**3*c*d**2*m**5*x*x**(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m \\
& **6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m** \\
& 5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4 \\
& *n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m \\
& **3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614 \\
& *m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040 \\
& *m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m \\
& *n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1 \\
& 960*n**3 + 322*n**2 + 28*n + 1) + 4260*A*a**3*c*d**2*m**4*n**3*x*x**(2*n)*(\\
& e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + \\
& 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + \\
& 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + \\
& 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + \\
& 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 48 \\
& 30*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m* \\
& n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 \\
& + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + \\
& 4050*A*a**3*c*d**2*m**4*n**2*x*x**(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m** \\
& 7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 \\
& + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + \\
& 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 \\
& + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n** \\
& 5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m* \\
& *2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 \\
& + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769 \\
& *n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 1170*A*a**3*c*d**2*m**4*n*x*x**(\\
& 2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28* \\
& m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n \\
& **4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n \\
& **5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*
\end{aligned}$$

$$\begin{aligned}
& **4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + \\
& 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 105*A*a**3*c*d* \\
& *2*m**3*x*x**(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 19 \\
& 6*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 \\
& + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 \\
& + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 98 \\
& 0*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + \\
& 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 261 \\
& 36*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m \\
& *n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 32 \\
& 2*n**2 + 28*n + 1) + 15822*A*a**3*c*d**2*m**2*n**5*x*x**(2*n)*(e*x)**m/(m** \\
& 8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n \\
& **3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n* \\
& *3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n \\
& **4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n \\
& **6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 \\
& + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076 \\
& *m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n** \\
& 6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 35361*A*a** \\
& 3*c*d**2*m**2*n**4*x*x**(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m** \\
& 6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n \\
& + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n \\
& + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m** \\
& 3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m \\
& **2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m \\
& *n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n \\
& **2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 196 \\
& 0*n**3 + 322*n**2 + 28*n + 1) + 25560*A*a**3*c*d**2*m**2*n**3*x*x**(2*n)*(e \\
& *x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + \\
& 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9 \\
& 800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 2 \\
& 7076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + \\
& 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 483 \\
& 0*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n \\
& **5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 \\
& + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + \\
& 8100*A*a**3*c*d**2*m**2*n**2*x*x**(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 \\
& + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + \\
& 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + \\
& 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 \\
& + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 \\
& + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m** \\
& 2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 \\
& + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769* \\
& n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 1170*A*a**3*c*d**2*m**2*n*x*x**(2
\end{aligned}$$

$$\begin{aligned}
 & *n) * (e^x)^{**m} / (m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} \\
 & + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} \\
 & + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} \\
 & + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} \\
 & + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} \\
 & + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 393 \\
 & 96*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040 \\
 & *n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + \\
 & 1) + 63*A*a^{**3}*c*d^{**2}*m^{**2}*x*x^{**}(2*n) * (e^x)^{**m} / (m^{**8} + 28*m^{**7}*n + 8*m^{**7} \\
 & + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + \\
 & 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 9 \\
 & 80*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + \\
 & 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} \\
 & + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} \\
 & + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + \\
 & 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} \\
 & + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 7560*A*a^{**3}*c*d^{**2}*m*n^{**6}*x*x^{**}(2* \\
 & n) * (e^x)^{**m} / (m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} \\
 & + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} \\
 & + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} \\
 & + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} \\
 & + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} \\
 & + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 3939 \\
 & 6*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040* \\
 & n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + \\
 & 1) + 31644*A*a^{**3}*c*d^{**2}*m*n^{**5}*x*x^{**}(2*n) * (e^x)^{**m} / (m^{**8} + 28*m^{**7}*n + 8*m^{**7} \\
 & + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} \\
 & + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} \\
 & + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} \\
 & + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} \\
 & + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28* \\
 & m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} \\
 & + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 67 \\
 & 69*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 35361*A*a^{**3}*c*d^{**2}*m*n^{**4}*x*x^{**} \\
 & (2*n) * (e^x)^{**m} / (m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + \\
 & 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4} \\
 & *n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3} \\
 & *n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + \\
 & 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2} \\
 & *n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + \\
 & 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + \\
 & 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28 \\
 & *n + 1) + 17040*A*a^{**3}*c*d^{**2}*m*n^{**3}*x*x^{**}(2*n) * (e^x)^{**m} / (m^{**8} + 28*m^{**7}*n \\
 & + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5} \\
 & *n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}
 \end{aligned}$$

$$\begin{aligned}
& *n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n \\
& + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} \\
& + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 4050*A*a^{**3}*c*d^{**2}*m*n^{**2} \\
& *x*x^{**}(2*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n \\
& + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769 \\
& *m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132 \\
& *m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n \\
& + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} \\
& + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} \\
& + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8* \\
& m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} \\
& + 28*n + 1) + 468*A*a^{**3}*c*d^{**2}*m*n*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + \\
& 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5} \\
& *n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} \\
& + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3} \\
& *n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2} \\
& *n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} \\
& + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800* \\
& m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} \\
& + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 21*A*a^{**3}*c*d^{**2}*m*x*x^{**}(2 \\
& *n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m \\
& **6 + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} \\
& + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} \\
& + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m \\
& **3 + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} \\
& + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 393 \\
& 96*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040 \\
& *n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + \\
& 1) + 7560*A*a^{**3}*c*d^{**2}*n^{**6}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} \\
& + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} \\
& + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + \\
& 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} \\
& + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} \\
& + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} \\
& + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} \\
& + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769 \\
& *n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 15822*A*a^{**3}*c*d^{**2}*n^{**5}*x*x^{**}(2 \\
& *n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m \\
& **6 + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} \\
& + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} \\
& + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m \\
& **3 + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3}
\end{aligned}$$

$+ 4830m^{2n^2} + 588m^{2n} + 28m^2 + 5040m^{n^7} + 26136m^{n^6} + 39396m^{n^5} + 27076m^{n^4} + 9800m^{n^3} + 1932m^{n^2} + 196m^n + 8m + 5040n^{n^7} + 13068n^{n^6} + 13132n^{n^5} + 6769n^{n^4} + 1960n^{n^3} + 322n^{n^2} + 28n + 1) + 11787A^3c^2d^{2n^4}x^{2n}(ex)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^{n^7} + 26136m^{n^6} + 39396m^{n^5} + 27076m^{n^4} + 9800m^{n^3} + 1932m^{n^2} + 196m^n + 8m + 5040n^{n^7} + 13068n^{n^6} + 13132n^{n^5} + 6769n^{n^4} + 1960n^{n^3} + 322n^{n^2} + 28n + 1) + 4260A^3c^2d^{2n^3}x^{2n}(ex)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^{n^7} + 26136m^{n^6} + 39396m^{n^5} + 27076m^{n^4} + 9800m^{n^3} + 1932m^{n^2} + 196m^n + 8m + 5040n^{n^7} + 13068n^{n^6} + 13132n^{n^5} + 6769n^{n^4} + 1960n^{n^3} + 322n^{n^2} + 28n + 1) + 810A^3c^2d^{2n^2}x^{2n}(ex)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^{n^7} + 26136m^{n^6} + 39396m^{n^5} + 27076m^{n^4} + 9800m^{n^3} + 1932m^{n^2} + 196m^n + 8m + 5040n^{n^7} + 13068n^{n^6} + 13132n^{n^5} + 6769n^{n^4} + 1960n^{n^3} + 322n^{n^2} + 28n + 1) + 78A^3c^2d^{2n}x^{2n}(ex)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^{n^7} + 26136m^{n^6} + 39396m^{n^5} + 27076m^{n^4} + 9800m^{n^3} + 1932m^{n^2} + 196m^n + 8m + 5040n^{n^7} + 13068n^{n^6} + 13132n^{n^5} + 6769n^{n^4} + 1960n^{n^3} + 322n^{n^2} + 28n + 1) + 3A^3c^2d^{2n}x^{2n}(ex)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^{n^7} + 26136m^{n^6} + 39396m^{n^5} + 27076m^{n^4} + 9800m^{n^3} + 1932m^{n^2} + 196m^n + 8m + 5040n^{n^7} + 13068n^{n^6} + 13132n^{n^5} + 6769n^{n^4} + 1960n^{n^3} + 322n^{n^2} + 28n + 1) + 3$

$$\begin{aligned}
& *3 + 322*n**2 + 28*n + 1) + A*a**3*d**3*m**7*x*x**(3*n)*(e*x)**m/(m**8 + 28 \\
& *m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + \\
& 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4 \\
& 830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + \\
& 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + \\
& 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588 \\
& *m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n** \\
& 4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13 \\
& 132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 25*A*a**3*d**3*m* \\
& **6*n*x*x**(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m \\
& **6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + \\
& 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 1 \\
& 3132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m \\
& **3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 196 \\
& 00*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136* \\
& m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n \\
& + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n \\
& **2 + 28*n + 1) + 7*A*a**3*d**3*m**6*x*x**(3*n)*(e*x)**m/(m**8 + 28*m**7*n \\
& + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m** \\
& 5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4 \\
& *n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m* \\
& **3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m \\
& **2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n \\
& + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800 \\
& *m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 \\
& + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 247*A*a**3*d**3*m**5*n**2 \\
& *x*x**(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6* \\
& n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769 \\
& *m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132 \\
& *m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3* \\
& n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m \\
& **2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n* \\
& *6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8* \\
& m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 \\
& + 28*n + 1) + 150*A*a**3*d**3*m**5*n*x*x**(3*n)*(e*x)**m/(m**8 + 28*m**7*n \\
& + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m** \\
& 5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4 \\
& *n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m* \\
& **3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m \\
& **2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n \\
& + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800 \\
& *m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 \\
& + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 21*A*a**3*d**3*m**5*x*x** \\
& (3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28 \\
& *m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*
\end{aligned}$$

$$\begin{aligned}
& n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}* \\
& n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56 \\
& *m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**} \\
& *3 + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 3 \\
& 9396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 50 \\
& 40*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n \\
& + 1) + 1219*A*a^{**3}*d^{**3}*m^{**4}*n^{**3}*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + \\
& 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}* \\
& n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n \\
& **2 + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3} \\
& *n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**} \\
& 2*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + \\
& 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m \\
& *n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + \\
& 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 1235*A*a^{**3}*d^{**3}*m^{**4}*n^{**2}* \\
& x*x^{**}(3*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n \\
& + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769* \\
& m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132* \\
& m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n \\
& + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m \\
& *2*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**} \\
& 6 + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m \\
& + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + \\
& 28*n + 1) + 375*A*a^{**3}*d^{**3}*m^{**4}*n*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + \\
& 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5} \\
& *n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}* \\
& n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**} \\
& 3*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m \\
& *2*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + \\
& 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800* \\
& m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} \\
& + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 35*A*a^{**3}*d^{**3}*m^{**4}*x*x^{**}(\\
& 3*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28* \\
& m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n \\
& **4 + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n \\
& **5 + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56* \\
& m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**} \\
& 3 + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39 \\
& 396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 504 \\
& 0*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n \\
& + 1) + 3112*A*a^{**3}*d^{**3}*m^{**3}*n^{**4}*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8 \\
& *m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n \\
& **2 + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n \\
& **2 + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}* \\
& n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}
\end{aligned}$$

$$\begin{aligned}
& 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 2 \\
& 8*n + 1) + 9336*A*a^{**3}*d^{**3}*m^{**2}*n^{**4}*x*x^{**3}(3*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n \\
& + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**} \\
& *5*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**} \\
& 4*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m \\
& **3*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m \\
& **2*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n \\
& + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 980 \\
& 0*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**} \\
& 5 + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 7314*A*a^{**3}*d^{**3}*m^{**2}*n \\
& *3*x*x^{**3}(3*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**} \\
& 6*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 67 \\
& 69*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 131 \\
& 32*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**} \\
& 3*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600 \\
& *m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m* \\
& n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + \\
& 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**} \\
& 2 + 28*n + 1) + 2470*A*a^{**3}*d^{**3}*m^{**2}*n^{**2}*x*x^{**3}(3*n)*(e*x)^{**m}/(m^{**8} + 28*m \\
& **7*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 19 \\
& 32*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 483 \\
& 0*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19 \\
& 600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 3 \\
& 9396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m \\
& **2*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} \\
& + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 1313 \\
& 2*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 375*A*a^{**3}*d^{**3}*m^{**} \\
& 2*n*x*x^{**3}(3*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**} \\
& *6*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6 \\
& 769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13 \\
& 132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**} \\
& *3*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 1960 \\
& 0*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m \\
& *n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + \\
& 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**} \\
& *2 + 28*n + 1) + 21*A*a^{**3}*d^{**3}*m^{**2}*x*x^{**3}(3*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n \\
& + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**} \\
& 5*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4} \\
& *n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**} \\
& *3*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m \\
& **2*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n \\
& + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800 \\
& *m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} \\
& + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 1680*A*a^{**3}*d^{**3}*m*n^{**6}*x \\
& *x^{**3}(3*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n
\end{aligned}$$

+ 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m
 4*n4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m
 3*n5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n
 + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**
 2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6
 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m
 + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 +
 28*n + 1) + 7592*A*a**3*d**3*m*n**5*x*x***(3*n)*(e*x)**m/(m**8 + 28*m**7*n +
 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5
 *n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n
 2 + 980*m4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**
 3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**
 2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n +
 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*
 m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5
 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 9336*A*a**3*d**3*m*n**4*x*
 x***(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n +
 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m*
 4*n4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m*
 3*n5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n +
 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2
 *n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6
 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m +
 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 2
 8*n + 1) + 4876*A*a**3*d**3*m*n**3*x*x***(3*n)*(e*x)**m/(m**8 + 28*m**7*n +
 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n
 2 + 588*m5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n
 2 + 980*m4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3
 *n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**
 2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n +
 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m
 *n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 +
 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 1235*A*a**3*d**3*m*n**2*x*x
 ***(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n +
 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**
 4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**
 3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n +
 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*
 n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 +
 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m +
 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28
 *n + 1) + 150*A*a**3*d**3*m*n*x*x***(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**
 7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2
 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 +
 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3

$$\begin{aligned}
& + 6440m^{3n^2} + 980m^{3n} + 56m^3 + 13068m^{2n^6} + 39396m^{2n^5} \\
& + 40614m^{2n^4} + 19600m^{2n^3} + 4830m^{2n^2} + 588m^{2n} + 28m^2 \\
& + 5040m^{n^7} + 26136m^{n^6} + 39396m^{n^5} + 27076m^{n^4} + 9800m^{n^3} \\
& + 1932m^{n^2} + 196m^n + 8m + 5040n^{n^7} + 13068n^{n^6} + 13132n^{n^5} + 6769 \\
& n^{n^4} + 1960n^{n^3} + 322n^{n^2} + 28n + 1) + 7A^3d^3m^x x^{(3n)}(e^x) \\
& **m/(m^{n^8} + 28m^{n^7} + 8m^{n^7} + 322m^{n^6} + 196m^{n^6} + 28m^{n^6} + 196 \\
& 0m^{n^5} + 1932m^{n^5} + 588m^{n^5} + 56m^{n^5} + 6769m^{n^4} + 9800 \\
& m^{n^4} + 4830m^{n^4} + 980m^{n^4} + 70m^{n^4} + 13132m^{n^3} + 2707 \\
& 6m^{n^3} + 19600m^{n^3} + 6440m^{n^3} + 980m^{n^3} + 56m^{n^3} + 130 \\
& 68m^{n^2} + 39396m^{n^2} + 40614m^{n^2} + 19600m^{n^2} + 4830m^{n^2} \\
& + 588m^{n^2} + 28m^{n^2} + 5040m^{n^7} + 26136m^{n^6} + 39396m^{n^5} \\
& + 27076m^{n^4} + 9800m^{n^3} + 1932m^{n^2} + 196m^n + 8m + 5040n^{n^7} + 1 \\
& 3068n^{n^6} + 13132n^{n^5} + 6769n^{n^4} + 1960n^{n^3} + 322n^{n^2} + 28n + 1) + 168 \\
& 0A^3d^3n^{n^6} x^{(3n)}(e^x)**m/(m^{n^8} + 28m^{n^7} + 8m^{n^7} + 322m^{n^6} \\
& + 196m^{n^6} + 28m^{n^6} + 1960m^{n^5} + 1932m^{n^5} + 588m^{n^5} + 56 \\
& m^{n^5} + 6769m^{n^4} + 9800m^{n^4} + 4830m^{n^4} + 980m^{n^4} + 70 \\
& m^{n^4} + 13132m^{n^3} + 27076m^{n^3} + 19600m^{n^3} + 6440m^{n^3} \\
& + 980m^{n^3} + 56m^{n^3} + 13068m^{n^2} + 39396m^{n^2} + 40614m^{n^2} \\
& + 19600m^{n^2} + 4830m^{n^2} + 588m^{n^2} + 28m^{n^2} + 5040m^{n^7} \\
& + 26136m^{n^6} + 39396m^{n^5} + 27076m^{n^4} + 9800m^{n^3} + 1932m^{n^2} \\
& + 196m^n + 8m + 5040n^{n^7} + 13068n^{n^6} + 13132n^{n^5} + 6769n^{n^4} + 196 \\
& 0n^{n^3} + 322n^{n^2} + 28n + 1) + 3796A^3d^3n^{n^5} x^{(3n)}(e^x)**m/(\\
& m^{n^8} + 28m^{n^7} + 8m^{n^7} + 322m^{n^6} + 196m^{n^6} + 28m^{n^6} + 1960m^{n^5} \\
& + 1932m^{n^5} + 588m^{n^5} + 56m^{n^5} + 6769m^{n^4} + 9800m^{n^4} \\
& + 4830m^{n^4} + 980m^{n^4} + 70m^{n^4} + 13132m^{n^3} + 27076m^{n^3} \\
& + 19600m^{n^3} + 6440m^{n^3} + 980m^{n^3} + 56m^{n^3} + 13068m^{n^2} \\
& + 39396m^{n^2} + 40614m^{n^2} + 19600m^{n^2} + 4830m^{n^2} + 588m^{n^2} \\
& + 28m^{n^2} + 5040m^{n^7} + 26136m^{n^6} + 39396m^{n^5} + 27 \\
& 076m^{n^4} + 9800m^{n^3} + 1932m^{n^2} + 196m^n + 8m + 5040n^{n^7} + 13068 \\
& n^{n^6} + 13132n^{n^5} + 6769n^{n^4} + 1960n^{n^3} + 322n^{n^2} + 28n + 1) + 3112A^3 \\
& d^3n^{n^4} x^{(3n)}(e^x)**m/(m^{n^8} + 28m^{n^7} + 8m^{n^7} + 322m^{n^6} \\
& + 196m^{n^6} + 28m^{n^6} + 1960m^{n^5} + 1932m^{n^5} + 588m^{n^5} + 56 \\
& m^{n^5} + 6769m^{n^4} + 9800m^{n^4} + 4830m^{n^4} + 980m^{n^4} + 70 \\
& m^{n^4} + 13132m^{n^3} + 27076m^{n^3} + 19600m^{n^3} + 6440m^{n^3} \\
& + 980m^{n^3} + 56m^{n^3} + 13068m^{n^2} + 39396m^{n^2} + 40614m^{n^2} \\
& + 19600m^{n^2} + 4830m^{n^2} + 588m^{n^2} + 28m^{n^2} + 5040m^{n^7} \\
& + 26136m^{n^6} + 39396m^{n^5} + 27076m^{n^4} + 9800m^{n^3} + 1932m^{n^2} \\
& + 196m^n + 8m + 5040n^{n^7} + 13068n^{n^6} + 13132n^{n^5} + 6769n^{n^4} + 1960n^{n^3} \\
& + 322n^{n^2} + 28n + 1) + 1219A^3d^3n^{n^3} x^{(3n)}(e^x)**m/(m^{n^8} \\
& + 28m^{n^7} + 8m^{n^7} + 322m^{n^6} + 196m^{n^6} + 28m^{n^6} + 1960m^{n^5} \\
& + 1932m^{n^5} + 588m^{n^5} + 56m^{n^5} + 6769m^{n^4} + 9800m^{n^4} \\
& + 4830m^{n^4} + 980m^{n^4} + 70m^{n^4} + 13132m^{n^3} + 27076m^{n^3} \\
& + 19600m^{n^3} + 6440m^{n^3} + 980m^{n^3} + 56m^{n^3} + 13068m^{n^2} \\
& + 39396m^{n^2} + 40614m^{n^2} + 19600m^{n^2} + 4830m^{n^2} + 588m^{n^2} \\
& + 28m^{n^2} + 5040m^{n^7} + 26136m^{n^6} + 39396m^{n^5} + 27076m
\end{aligned}$$

$$\begin{aligned}
& *n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} \\
& + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 247*A*a^{**3}*d* \\
& *3*n^{**2}*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 19 \\
& 6*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} \\
& + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} \\
& + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 98 \\
& 0*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + \\
& 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 261 \\
& 36*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m \\
& *n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 32 \\
& 2*n^{**2} + 28*n + 1) + 25*A*a^{**3}*d^{**3}*n*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n \\
& + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m* \\
& *5*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{** \\
& 4*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m \\
& **3*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396* \\
& m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n \\
& + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 980 \\
& 0*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{** \\
& 5 + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + A*a^{**3}*d^{**3}*x*x^{**}(3*n)*(\\
& e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + \\
& 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + \\
& 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + \\
& 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + \\
& 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 48 \\
& 30*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m* \\
& n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} \\
& + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + \\
& 3*A*a^{**2}*b*c^{**3}*m^{**7}*x*x^{**n}*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6} \\
& *n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n \\
& + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n \\
& + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3} \\
& *n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m* \\
& *2*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m* \\
& n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n* \\
& *2 + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960 \\
& *n^{**3} + 322*n^{**2} + 28*n + 1) + 81*A*a^{**2}*b*c^{**3}*m^{**6}*n*x*x^{**n}*(e*x)^{**m}/(m^{** \\
& 8 + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n \\
& **3 + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n* \\
& *3 + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n \\
& **4 + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}* \\
& n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} \\
& + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076 \\
& *m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{** \\
& 6 + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 21*A*a^{**2}*b \\
& *c^{**3}*m^{**6}*x*x^{**n}*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196
\end{aligned}$$

$m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5}n + 56m^{*5}$
 $+ 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} +$
 $13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980$
 $m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 1$
 $9600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + 2613$
 $6m^{*n}n^{*6} + 39396m^{*n}n^{*5} + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196m^{*n}$
 $n + 8m + 5040n^{*7} + 13068n^{*6} + 13132n^{*5} + 6769n^{*4} + 1960n^{*3} + 322$
 $n^{*2} + 28n + 1) + 885Aa^{*2}b^{*c}m^{*5}n^{*2}x^{*x}n^{*n}(e^{*x})^{*m}/(m^{*8} + 28m^{*7}n$
 $+ 8m^{*7} + 322m^{*6}n^{*2} + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 1$
 $932m^{*5}n^{*2} + 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 48$
 $30m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 1$
 $9600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} +$
 $39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588m^{*2}n$
 $+ 28m^{*2} + 5040m^{*n}n^{*7} + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} + 27076m^{*n}n^{*4}$
 $+ 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196m^{*n} + 8m + 5040n^{*7} + 13068n^{*6} + 131$
 $32n^{*5} + 6769n^{*4} + 1960n^{*3} + 322n^{*2} + 28n + 1) + 486Aa^{*2}b^{*c}m^{*5}n^{*x}x^{*n}n^{*n}(e^{*x})^{*m}/(m^{*8} + 28m^{*7}n$
 $+ 8m^{*7} + 322m^{*6}n^{*2} + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2}$
 $+ 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} + 131$
 $32m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980m^{*3}n$
 $+ 56m^{*3} + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 19600m^{*2}n^{*3}$
 $+ 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + 26136m^{*n}n^{*6}$
 $+ 39396m^{*n}n^{*5} + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196m^{*n} +$
 $8m + 5040n^{*7} + 13068n^{*6} + 13132n^{*5} + 6769n^{*4} + 1960n^{*3} + 322n^{*2}$
 $+ 28n + 1) + 63Aa^{*2}b^{*c}m^{*5}x^{*x}n^{*n}(e^{*x})^{*m}/(m^{*8} + 28m^{*7}n + 8$
 $m^{*7} + 322m^{*6}n^{*2} + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2}$
 $+ 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2}$
 $+ 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3}$
 $+ 6440m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} + 39396m^{*2}$
 $n^{*5} + 40614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588m^{*2}n + 2$
 $8m^{*2} + 5040m^{*n}n^{*7} + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} + 27076m^{*n}n^{*4} + 9800m^{*n}$
 $n^{*3} + 1932m^{*n}n^{*2} + 196m^{*n} + 8m + 5040n^{*7} + 13068n^{*6} + 13132n^{*5}$
 $+ 6769n^{*4} + 1960n^{*3} + 322n^{*2} + 28n + 1) + 4995Aa^{*2}b^{*c}m^{*4}n^{*3}$
 $x^{*x}n^{*n}(e^{*x})^{*m}/(m^{*8} + 28m^{*7}n + 8m^{*7} + 322m^{*6}n^{*2} + 196m^{*6}n +$
 $28m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5}n + 56m^{*5} + 6769m^{*4}$
 $n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} + 13132m^{*3}$
 $n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980m^{*3}n +$
 $56m^{*3} + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 19600m^{*2}$
 $n^{*3} + 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + 26136m^{*n}n^{*6}$
 $+ 39396m^{*n}n^{*5} + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196m^{*n} + 8m +$
 $5040n^{*7} + 13068n^{*6} + 13132n^{*5} + 6769n^{*4} + 1960n^{*3} + 322n^{*2} + 28$
 $n + 1) + 4425Aa^{*2}b^{*c}m^{*4}n^{*2}x^{*x}n^{*n}(e^{*x})^{*m}/(m^{*8} + 28m^{*7}n +$
 $8m^{*7} + 322m^{*6}n^{*2} + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}$
 $n^{*2} + 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2}$
 $+ 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}$

$$\begin{aligned}
& 96*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040 \\
& *n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + \\
& 1) + 1620*A*a**2*b*c**3*m**3*n*x*x**n*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 \\
& + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + \\
& 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 9 \\
& 80*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + \\
& 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 \\
& + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 \\
& + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + \\
& 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n \\
& **4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 105*A*a**2*b*c**3*m**3*x*x**n*(e*x \\
&)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 19 \\
& 60*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 980 \\
& 0*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 270 \\
& 76*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13 \\
& 068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830* \\
& m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n** \\
& 5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + \\
& 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 24 \\
& 084*A*a**2*b*c**3*m**2*n**5*x*x**n*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 32 \\
& 2*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588* \\
& m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m \\
& **4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 644 \\
& 0*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40 \\
& 614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5 \\
& 040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 193 \\
& 2*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 \\
& + 1960*n**3 + 322*n**2 + 28*n + 1) + 45936*A*a**2*b*c**3*m**2*n**4*x*x**n*(\\
& e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + \\
& 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + \\
& 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + \\
& 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + \\
& 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 48 \\
& 30*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m* \\
& n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 \\
& + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + \\
& 29970*A*a**2*b*c**3*m**2*n**3*x*x**n*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + \\
& 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 5 \\
& 88*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 98 \\
& 0*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + \\
& 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + \\
& 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 \\
& + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + \\
& 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n* \\
& **4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 8850*A*a**2*b*c**3*m**2*n**2*x*x**n
\end{aligned}$$

$$\begin{aligned}
& * (e^x)^{**m} / (m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} \\
& + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} \\
& + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} \\
& + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} \\
& + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + \\
& 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396* \\
& m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n \\
& *7 + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) \\
& + 1215*A*a^{**2}*b*c^{**3}*m^{**2}*n*x*x^{**n}*(e^x)^{**m} / (m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 3 \\
& 22*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588 \\
& *m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980* \\
& m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 64 \\
& 40*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 4 \\
& 0614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + \\
& 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 19 \\
& 32*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} \\
& + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 63*A*a^{**2}*b*c^{**3}*m^{**2}*x*x^{**n}*(e^x)^{**m} \\
& / (m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m \\
& **5*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m* \\
& **4*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m \\
& **3*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068* \\
& m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2} \\
& *n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + \\
& 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 1306 \\
& 8*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 15120* \\
& A*a^{**2}*b*c^{**3}*m*n^{**6}*x*x^{**n}*(e^x)^{**m} / (m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}* \\
& n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n \\
& + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + \\
& 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}* \\
& n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{** \\
& 2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n \\
& **7 + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{** \\
& 2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960* \\
& n^{**3} + 322*n^{**2} + 28*n + 1) + 48168*A*a^{**2}*b*c^{**3}*m*n^{**5}*x*x^{**n}*(e^x)^{**m} / (m \\
& **8 + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5} \\
& *n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}* \\
& n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3} \\
& *n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{** \\
& 2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n* \\
& *2 + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 270 \\
& 76*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n \\
& **6 + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 45936*A*a \\
& **2*b*c^{**3}*m*n^{**4}*x*x^{**n}*(e^x)^{**m} / (m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{** \\
& 2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 5 \\
& 6*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70
\end{aligned}$$

$$\begin{aligned}
& *m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} \\
& + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} \\
& + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m^{**1}*n^{**7} \\
& + 26136*m^{**1}*n^{**6} + 39396*m^{**1}*n^{**5} + 27076*m^{**1}*n^{**4} + 9800*m^{**1}*n^{**3} + 1932*m^{**1}*n^{**2} + \\
& + 196*m^{**1}*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} \\
& + 322*n^{**2} + 28*n + 1) + 19980*A*a^{**2}*b*c^{**3}*m^{**3}*x*x^{**n}*(e*x)^{**m}/(m^{**8} \\
& + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} \\
& + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} \\
& + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} \\
& + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} \\
& + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} \\
& + 588*m^{**2}*n + 28*m^{**2} + 5040*m^{**1}*n^{**7} + 26136*m^{**1}*n^{**6} + 39396*m^{**1}*n^{**5} + 27076* \\
& m^{**1}*n^{**4} + 9800*m^{**1}*n^{**3} + 1932*m^{**1}*n^{**2} + 196*m^{**1}*n + 8*m + 5040*n^{**7} + 13068*n^{**6} \\
& + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 4425*A*a^{**2}* \\
& b*c^{**3}*m^{**2}*x*x^{**n}*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + \\
& 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} \\
& + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} \\
& + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + \\
& 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} \\
& + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m^{**1}*n^{**7} + 2 \\
& 6136*m^{**1}*n^{**6} + 39396*m^{**1}*n^{**5} + 27076*m^{**1}*n^{**4} + 9800*m^{**1}*n^{**3} + 1932*m^{**1}*n^{**2} + 196 \\
& *m^{**1}*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + \\
& 322*n^{**2} + 28*n + 1) + 486*A*a^{**2}*b*c^{**3}*m^{**1}*x*x^{**n}*(e*x)^{**m}/(m^{**8} + 28*m^{**7} \\
& *n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932 \\
& *m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830* \\
& m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 1960 \\
& 0*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 393 \\
& 96*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2} \\
& *n + 28*m^{**2} + 5040*m^{**1}*n^{**7} + 26136*m^{**1}*n^{**6} + 39396*m^{**1}*n^{**5} + 27076*m^{**1}*n^{**4} + \\
& 9800*m^{**1}*n^{**3} + 1932*m^{**1}*n^{**2} + 196*m^{**1}*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132* \\
& n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 21*A*a^{**2}*b*c^{**3}*m^{**1}*x \\
& *x^{**n}*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28* \\
& m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} \\
& + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} \\
& + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56* \\
& m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} \\
& + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m^{**1}*n^{**7} + 26136*m^{**1}*n^{**6} + 39 \\
& 396*m^{**1}*n^{**5} + 27076*m^{**1}*n^{**4} + 9800*m^{**1}*n^{**3} + 1932*m^{**1}*n^{**2} + 196*m^{**1}*n + 504 \\
& 0*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n \\
& + 1) + 15120*A*a^{**2}*b*c^{**3}*n^{**6}*x*x^{**n}*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} \\
& + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + \\
& 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 9 \\
& 80*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + \\
& 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} \\
& + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2}
\end{aligned}$$

$$\begin{aligned}
& + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + \\
& 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + \\
& 1960*n**3 + 322*n**2 + 28*n + 1) + 24084*A*a**2*b*c**3*n**5*x*x**n*(e*x)**m/(m**8 + \\
& 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + \\
& 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + \\
& 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + \\
& 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + \\
& 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + \\
& 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + \\
& 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + \\
& 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 15312*A*a**2*b*c**3*n**4*x*x**n*(e*x)**m/(m**8 + \\
& 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + \\
& 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + \\
& 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + \\
& 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + \\
& 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + \\
& 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + \\
& 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1 \\
& 960*n**3 + 322*n**2 + 28*n + 1) + 4995*A*a**2*b*c**3*n**3*x*x**n*(e*x)**m/(\\
& m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + \\
& 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + \\
& 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + \\
& 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + \\
& 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + \\
& 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + \\
& 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1 \\
& 960*n**3 + 322*n**2 + 28*n + 1) + 885*A*a**2*b*c**3*n**2*x*x**n*(e*x)**m/(m**8 + \\
& 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + \\
& 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + \\
& 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + \\
& 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + \\
& 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + \\
& 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + \\
& 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + \\
& 1960*n**3 + 322*n**2 + 28*n + 1) + 81*A*a**2*b*c**3*n*x*x**n*(e*x)**m/(m**8 + \\
& 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + \\
& 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + \\
& 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + \\
& 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + \\
& 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + \\
& 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + \\
& 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + \\
& 322*n**2 + 28*n + 1) + 3*A*a**2*b*c**3*x*x**n*
\end{aligned}$$

$$\begin{aligned}
& (e^x)^{m/n} / (m^8 + 28m^7n + 8m^6n^2 + 322m^6n^3 + 196m^5n^4 + 28m^4n^5 + \\
& + 1960m^4n^6 + 1932m^3n^7 + 588m^2n^8 + 56m^2n^9 + 6769m^4n^4 + \\
& + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + \\
& + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + \\
& + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4 \\
& + 830m^2n^2 + 588m^2n + 28m^2 + 5040m^2n^7 + 26136m^2n^6 + 39396m \\
& + n^5 + 27076m^2n^4 + 9800m^2n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040n^7 \\
& + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) \\
& + 9A^2b^2c^2d^2m^7n^2(e^x)^{m/n} / (m^8 + 28m^7n + 8m^6n^2 + 3 \\
& + 22m^6n^3 + 196m^6n^4 + 28m^6n^5 + 1960m^5n^6 + 1932m^5n^7 + 588 \\
& + m^5n^8 + 56m^5n^9 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m \\
& + m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 64 \\
& + 40m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 4 \\
& + 0614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + \\
& + 5040m^2n^7 + 26136m^2n^6 + 39396m^2n^5 + 27076m^2n^4 + 9800m^2n^3 + 19 \\
& + 32m^2n^2 + 196m^2n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 \\
& + 1960n^3 + 322n^2 + 28n + 1) + 234A^2b^2c^2d^2m^6n^2(e^x)^{m/n} \\
& * (e^x)^{m/n} / (m^8 + 28m^7n + 8m^6n^2 + 196m^6n^3 + 28m^6n^4 \\
& + 1960m^5n^5 + 1932m^5n^6 + 588m^5n^7 + 56m^5n^8 + 6769m^4n^4 + \\
& + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + \\
& + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + \\
& + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + \\
& + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^2n^7 + 26136m^2n^6 + 39396m \\
& + n^5 + 27076m^2n^4 + 9800m^2n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040n^7 \\
& + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) \\
& + 63A^2b^2c^2d^2m^6n^2(e^x)^{m/n} / (m^8 + 28m^7n + 8m^6n^2 + \\
& + 322m^6n^3 + 196m^6n^4 + 28m^6n^5 + 1960m^5n^6 + 1932m^5n^7 + 5 \\
& + 88m^5n^8 + 56m^5n^9 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 98 \\
& + 0m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + \\
& + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + \\
& + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + \\
& + 5040m^2n^7 + 26136m^2n^6 + 39396m^2n^5 + 27076m^2n^4 + 9800m^2n^3 + \\
& + 1932m^2n^2 + 196m^2n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 \\
& + 1960n^3 + 322n^2 + 28n + 1) + 2430A^2b^2c^2d^2m^5n^2(e^x)^{m/n} \\
& * (2n)^2(e^x)^{m/n} / (m^8 + 28m^7n + 8m^6n^2 + 196m^6n^3 + 2 \\
& + 8m^6n^4 + 1960m^5n^5 + 1932m^5n^6 + 588m^5n^7 + 56m^5n^8 + 6769m^4n^4 \\
& + n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + \\
& + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 5 \\
& + 6m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 \\
& + n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^2n^7 + 26136m^2n^6 + \\
& + 39396m^2n^5 + 27076m^2n^4 + 9800m^2n^3 + 1932m^2n^2 + 196m^2n + 8m + 5 \\
& + 040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n \\
& + 1) + 1404A^2b^2c^2d^2m^5n^2(e^x)^{m/n} / (m^8 + 28m^7n \\
& + 8m^6n^2 + 322m^6n^3 + 196m^6n^4 + 28m^6n^5 + 1960m^5n^6 + 1932m^5n^7 \\
& + 588m^5n^8 + 56m^5n^9 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2
\end{aligned}$$

$$\begin{aligned}
& *n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n \\
& + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} \\
& + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 189*A*a^{**2}*b*c^{**2}*d*m^{**5}* \\
& x*x^{**}(2*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n \\
& + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132* \\
& m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n \\
& + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} \\
& + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m \\
& + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + \\
& 28*n + 1) + 12780*A*a^{**2}*b*c^{**2}*d*m^{**4}*n^{**3}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**8} + 28 \\
& *m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + \\
& 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4 \\
& 830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + \\
& 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + \\
& 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588 \\
& *m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} \\
& + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13 \\
& 132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 12150*A*a^{**2}*b*c* \\
& *2*d*m^{**4}*n^{**2}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n \\
& *2 + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + \\
& 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 7 \\
& 0*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n \\
& *2 + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}* \\
& n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} \\
& + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} \\
& + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n* \\
& *3 + 322*n^{**2} + 28*n + 1) + 3510*A*a^{**2}*b*c^{**2}*d*m^{**4}*n*x*x^{**}(2*n)*(e*x)^{**m} \\
& /(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m \\
& **5*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m \\
& *4*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m \\
& **3*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068* \\
& m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2} \\
& *n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + \\
& 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 1306 \\
& 8*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 315*A* \\
& a^{**2}*b*c^{**2}*d*m^{**4}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6} \\
& *n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}* \\
& n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n \\
& + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3} \\
& *n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m
\end{aligned}$$

$$\begin{aligned}
& **2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m \\
& *n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n \\
& **2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 196 \\
& 0*n**3 + 322*n**2 + 28*n + 1) + 35361*A*a**2*b*c**2*d*m**3*n**4*x*x**(2*n)* \\
& (e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 \\
& + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + \\
& 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + \\
& 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 \\
& + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4 \\
& 830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m \\
& *n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n** \\
& 7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) \\
& + 51120*A*a**2*b*c**2*d*m**3*n**3*x*x**(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8 \\
& *m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n \\
& **2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n* \\
& *2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3* \\
& n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2 \\
& *n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 2 \\
& 8*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m \\
& n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + \\
& 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 24300*A*a**2*b*c**2*d*m**3*n \\
& **2*x*x**(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m \\
& *6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6 \\
& 769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13 \\
& 132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m \\
& *3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 1960 \\
& 0*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m \\
& *n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + \\
& 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n* \\
& *2 + 28*n + 1) + 4680*A*a**2*b*c**2*d*m**3*n*x*x**(2*n)*(e*x)**m/(m**8 + 28 \\
& *m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + \\
& 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4 \\
& 830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + \\
& 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + \\
& 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588 \\
& *m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n** \\
& 4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13 \\
& 132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 315*A*a**2*b*c**2 \\
& *d*m**3*x*x**(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 19 \\
& 6*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 \\
& + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 \\
& + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 98 \\
& 0*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + \\
& 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 261 \\
& 36*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m
\end{aligned}$$

$$\begin{aligned}
& *n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 32 \\
& 2*n**2 + 28*n + 1) + 47466*A*a**2*b*c**2*d*m**2*n**5*x*x**(2*n)*(e*x)**m/(m \\
& **8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5 \\
& *n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4* \\
& n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3 \\
& *n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m** \\
& 2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n* \\
& *2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 270 \\
& 76*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n \\
& **6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 106083*A* \\
& a**2*b*c**2*d*m**2*n**4*x*x**(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 32 \\
& 2*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588* \\
& m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m \\
& **4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 644 \\
& 0*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40 \\
& 614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5 \\
& 040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 193 \\
& 2*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 \\
& + 1960*n**3 + 322*n**2 + 28*n + 1) + 76680*A*a**2*b*c**2*d*m**2*n**3*x*x**(\\
& 2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28* \\
& m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n \\
& **4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n \\
& **5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56* \\
& m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n** \\
& 3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39 \\
& 396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 504 \\
& 0*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n \\
& + 1) + 24300*A*a**2*b*c**2*d*m**2*n**2*x*x**(2*n)*(e*x)**m/(m**8 + 28*m**7* \\
& n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m \\
& **5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m* \\
& **4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600* \\
& m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396 \\
& *m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n \\
& + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 98 \\
& 00*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n* \\
& *5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 3510*A*a**2*b*c**2*d*m* \\
& **2*n*x*x**(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m \\
& **6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + \\
& 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 1 \\
& 3132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m \\
& **3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 196 \\
& 00*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136* \\
& m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n \\
& + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n \\
& **2 + 28*n + 1) + 189*A*a**2*b*c**2*d*m**2*x*x**(2*n)*(e*x)**m/(m**8 + 28*m
\end{aligned}$$

$$\begin{aligned}
& **7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 19 \\
& 32*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 483 \\
& 0*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19 \\
& 600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 3 \\
& 9396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m \\
& **2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 \\
& + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 1313 \\
& 2*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 22680*A*a**2*b*c**2 \\
& *d*m*n**6*x*x**(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + \\
& 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m \\
& *5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m** \\
& 4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + \\
& 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 \\
& + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 2 \\
& 6136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196 \\
& *m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + \\
& 322*n**2 + 28*n + 1) + 94932*A*a**2*b*c**2*d*m*n**5*x*x**(2*n)*(e*x)**m/(m \\
& *8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5 \\
& n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n \\
& **3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3 \\
& n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2 \\
& *n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n** \\
& 2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 2707 \\
& 6*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n \\
& *6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 106083*A*a \\
& **2*b*c**2*d*m*n**4*x*x**(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m \\
& *6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5 \\
& *n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4 \\
& n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m \\
& *3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614 \\
& m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040 \\
& m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m \\
& n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 19 \\
& 60*n**3 + 322*n**2 + 28*n + 1) + 51120*A*a**2*b*c**2*d*m*n**3*x*x**(2*n)*(e \\
& *x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + \\
& 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9 \\
& 800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 2 \\
& 7076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + \\
& 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 483 \\
& 0*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n \\
& **5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 \\
& + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + \\
& 12150*A*a**2*b*c**2*d*m*n**2*x*x**(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 \\
& + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + \\
& 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 +
\end{aligned}$$

$$\begin{aligned}
& 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} \\
& + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} \\
& + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} \\
& + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} \\
& + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} \\
& + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 1404*A*a^{**2}*b*c^{**2}*d*m*n*x*x^{**}(2*n) \\
& *(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} \\
& + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} \\
& + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} \\
& + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} \\
& + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} \\
& + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396 \\
& *m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} \\
& + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 63*A*a^{**2} \\
& *b*c^{**2}*d*m*n*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} \\
& + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} \\
& + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3} \\
& *n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} \\
& + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830 \\
& *m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396 \\
& *m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} \\
& + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 22680*A*a^{**2} \\
& *b*c^{**2}*d*n^{**6}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} \\
& + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} \\
& + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3} \\
& *n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} \\
& + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830 \\
& *m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396 \\
& *m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} \\
& + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 47466*A*a^{**2} \\
& *b*c^{**2}*d*n^{**5}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} \\
& + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} \\
& + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3} \\
& *n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} \\
& + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830 \\
& *m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396 \\
& *m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} \\
& + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 35361*A*a^{**2} \\
& *b*c^{**2}*d*n^{**4}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} \\
& + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} \\
& + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3} \\
& *n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} \\
& + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n
\end{aligned}$$

$$\begin{aligned}
& **3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + \\
& 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5 \\
& 040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28* \\
& n + 1) + 12780*A*a**2*b*c**2*d*n**3*x*x**(2*n)*(e*x)**m/(m**8 + 28*m**7*n + \\
& 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5 \\
& *n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4* \\
& n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m** \\
& 3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m* \\
& *2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + \\
& 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800* \\
& m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 \\
& + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 2430*A*a**2*b*c**2*d*n**2* \\
& x*x**(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n \\
& + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769* \\
& m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132* \\
& m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n \\
& + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m* \\
& *2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n** \\
& 6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m \\
& + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + \\
& 28*n + 1) + 234*A*a**2*b*c**2*d*n*x*x**(2*n)*(e*x)**m/(m**8 + 28*m**7*n + \\
& 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5* \\
& n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n \\
& **2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3 \\
& *n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m** \\
& 2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + \\
& 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m \\
& *n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + \\
& 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 9*A*a**2*b*c**2*d*x*x**(2*n \\
&)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m** \\
& 6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 \\
& + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 \\
& + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m** \\
& 3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + \\
& 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396 \\
& *m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n \\
& **7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1 \\
&) + 9*A*a**2*b*c*d**2*m**7*x*x**(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + \\
& 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 5 \\
& 88*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 98 \\
& 0*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + \\
& 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + \\
& 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 \\
& + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + \\
& 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n*
\end{aligned}$$

$$\begin{aligned}
& *4 + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 225*A*a^{**2}*b*c*d^{**2}*m^{**6}*n*x*x^{**}(3* \\
& n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**} \\
& *6 + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**} \\
& 4 + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**} \\
& 5 + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**} \\
& *3 + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} \\
& + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 3939 \\
& 6*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040* \\
& n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + \\
& 1) + 63*A*a^{**2}*b*c*d^{**2}*m^{**6}*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} \\
& + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + \\
& 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + \\
& 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} \\
& + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} \\
& + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**} \\
& 2 + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} \\
& + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769* \\
& n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 2223*A*a^{**2}*b*c*d^{**2}*m^{**5}*n^{**2}*x* \\
& x^{**}(3*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + \\
& 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**} \\
& *4*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m* \\
& *3*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + \\
& 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2} \\
& *n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} \\
& + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + \\
& 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 2 \\
& 8*n + 1) + 1350*A*a^{**2}*b*c*d^{**2}*m^{**5}*n*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}* \\
& n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m \\
& **5*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m* \\
& *4*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600* \\
& m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396 \\
& *m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}* \\
& n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 98 \\
& 00*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n* \\
& *5 + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 189*A*a^{**2}*b*c*d^{**2}*m^{**} \\
& 5*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6} \\
& *n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 676 \\
& 9*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 1313 \\
& 2*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3} \\
& *n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600* \\
& m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n \\
& **6 + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8 \\
& *m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} \\
& + 28*n + 1) + 10971*A*a^{**2}*b*c*d^{**2}*m^{**4}*n^{**3}*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**8} + \\
& 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3}
\end{aligned}$$

$$\begin{aligned}
& + 1932*m^{*5}*n^{*2} + 588*m^{*5}*n + 56*m^{*5} + 6769*m^{*4}*n^{*4} + 9800*m^{*4}*n^{*3} + \\
& 4830*m^{*4}*n^{*2} + 980*m^{*4}*n + 70*m^{*4} + 13132*m^{*3}*n^{*5} + 27076*m^{*3}*n^{*4} \\
& + 19600*m^{*3}*n^{*3} + 6440*m^{*3}*n^{*2} + 980*m^{*3}*n + 56*m^{*3} + 13068*m^{*2}*n^{*6} \\
& + 39396*m^{*2}*n^{*5} + 40614*m^{*2}*n^{*4} + 19600*m^{*2}*n^{*3} + 4830*m^{*2}*n^{*2} + 5 \\
& 88*m^{*2}*n + 28*m^{*2} + 5040*m*n^{*7} + 26136*m*n^{*6} + 39396*m*n^{*5} + 27076*m*n \\
& **4 + 9800*m*n^{*3} + 1932*m*n^{*2} + 196*m*n + 8*m + 5040*n^{*7} + 13068*n^{*6} + \\
& 13132*n^{*5} + 6769*n^{*4} + 1960*n^{*3} + 322*n^{*2} + 28*n + 1) + 11115*A*a^{*2}*b* \\
& c*d^{*2}*m^{*4}*n^{*2}*x*x^{*3}*n)*(e*x)**m/(m^{*8} + 28*m^{*7}*n + 8*m^{*7} + 322*m^{*6} \\
& n^{*2} + 196*m^{*6}*n + 28*m^{*6} + 1960*m^{*5}*n^{*3} + 1932*m^{*5}*n^{*2} + 588*m^{*5}*n \\
& + 56*m^{*5} + 6769*m^{*4}*n^{*4} + 9800*m^{*4}*n^{*3} + 4830*m^{*4}*n^{*2} + 980*m^{*4}*n + \\
& 70*m^{*4} + 13132*m^{*3}*n^{*5} + 27076*m^{*3}*n^{*4} + 19600*m^{*3}*n^{*3} + 6440*m^{*3}* \\
& n^{*2} + 980*m^{*3}*n + 56*m^{*3} + 13068*m^{*2}*n^{*6} + 39396*m^{*2}*n^{*5} + 40614*m^{*2} \\
& *n^{*4} + 19600*m^{*2}*n^{*3} + 4830*m^{*2}*n^{*2} + 588*m^{*2}*n + 28*m^{*2} + 5040*m*n \\
& **7 + 26136*m*n^{*6} + 39396*m*n^{*5} + 27076*m*n^{*4} + 9800*m*n^{*3} + 1932*m*n^{*2} \\
& + 196*m*n + 8*m + 5040*n^{*7} + 13068*n^{*6} + 13132*n^{*5} + 6769*n^{*4} + 1960* \\
& n^{*3} + 322*n^{*2} + 28*n + 1) + 3375*A*a^{*2}*b*c*d^{*2}*m^{*4}*n*x*x^{*3}*n)*(e*x)* \\
& **m/(m^{*8} + 28*m^{*7}*n + 8*m^{*7} + 322*m^{*6}*n^{*2} + 196*m^{*6}*n + 28*m^{*6} + 1960 \\
& *m^{*5}*n^{*3} + 1932*m^{*5}*n^{*2} + 588*m^{*5}*n + 56*m^{*5} + 6769*m^{*4}*n^{*4} + 9800* \\
& m^{*4}*n^{*3} + 4830*m^{*4}*n^{*2} + 980*m^{*4}*n + 70*m^{*4} + 13132*m^{*3}*n^{*5} + 27076 \\
& *m^{*3}*n^{*4} + 19600*m^{*3}*n^{*3} + 6440*m^{*3}*n^{*2} + 980*m^{*3}*n + 56*m^{*3} + 1306 \\
& 8*m^{*2}*n^{*6} + 39396*m^{*2}*n^{*5} + 40614*m^{*2}*n^{*4} + 19600*m^{*2}*n^{*3} + 4830*m \\
& *2*n^{*2} + 588*m^{*2}*n + 28*m^{*2} + 5040*m*n^{*7} + 26136*m*n^{*6} + 39396*m*n^{*5} \\
& + 27076*m*n^{*4} + 9800*m*n^{*3} + 1932*m*n^{*2} + 196*m*n + 8*m + 5040*n^{*7} + 13 \\
& 068*n^{*6} + 13132*n^{*5} + 6769*n^{*4} + 1960*n^{*3} + 322*n^{*2} + 28*n + 1) + 315* \\
& A*a^{*2}*b*c*d^{*2}*m^{*4}*x*x^{*3}*n)*(e*x)**m/(m^{*8} + 28*m^{*7}*n + 8*m^{*7} + 322*m \\
& **6*n^{*2} + 196*m^{*6}*n + 28*m^{*6} + 1960*m^{*5}*n^{*3} + 1932*m^{*5}*n^{*2} + 588*m^{*5} \\
& *n + 56*m^{*5} + 6769*m^{*4}*n^{*4} + 9800*m^{*4}*n^{*3} + 4830*m^{*4}*n^{*2} + 980*m^{*4} \\
& *n + 70*m^{*4} + 13132*m^{*3}*n^{*5} + 27076*m^{*3}*n^{*4} + 19600*m^{*3}*n^{*3} + 6440*m \\
& **3*n^{*2} + 980*m^{*3}*n + 56*m^{*3} + 13068*m^{*2}*n^{*6} + 39396*m^{*2}*n^{*5} + 40614 \\
& *m^{*2}*n^{*4} + 19600*m^{*2}*n^{*3} + 4830*m^{*2}*n^{*2} + 588*m^{*2}*n + 28*m^{*2} + 5040 \\
& *m*n^{*7} + 26136*m*n^{*6} + 39396*m*n^{*5} + 27076*m*n^{*4} + 9800*m*n^{*3} + 1932*m \\
& *n^{*2} + 196*m*n + 8*m + 5040*n^{*7} + 13068*n^{*6} + 13132*n^{*5} + 6769*n^{*4} + 1 \\
& 960*n^{*3} + 322*n^{*2} + 28*n + 1) + 28008*A*a^{*2}*b*c*d^{*2}*m^{*3}*n^{*4}*x*x^{*3}*n \\
&)*(e*x)**m/(m^{*8} + 28*m^{*7}*n + 8*m^{*7} + 322*m^{*6}*n^{*2} + 196*m^{*6}*n + 28*m^{*6} \\
& + 1960*m^{*5}*n^{*3} + 1932*m^{*5}*n^{*2} + 588*m^{*5}*n + 56*m^{*5} + 6769*m^{*4}*n^{*4} \\
& + 9800*m^{*4}*n^{*3} + 4830*m^{*4}*n^{*2} + 980*m^{*4}*n + 70*m^{*4} + 13132*m^{*3}*n^{*5} \\
& + 27076*m^{*3}*n^{*4} + 19600*m^{*3}*n^{*3} + 6440*m^{*3}*n^{*2} + 980*m^{*3}*n + 56*m^{*3} \\
& + 13068*m^{*2}*n^{*6} + 39396*m^{*2}*n^{*5} + 40614*m^{*2}*n^{*4} + 19600*m^{*2}*n^{*3} + \\
& 4830*m^{*2}*n^{*2} + 588*m^{*2}*n + 28*m^{*2} + 5040*m*n^{*7} + 26136*m*n^{*6} + 39396 \\
& *m*n^{*5} + 27076*m*n^{*4} + 9800*m*n^{*3} + 1932*m*n^{*2} + 196*m*n + 8*m + 5040*n \\
& **7 + 13068*n^{*6} + 13132*n^{*5} + 6769*n^{*4} + 1960*n^{*3} + 322*n^{*2} + 28*n + 1 \\
&) + 43884*A*a^{*2}*b*c*d^{*2}*m^{*3}*n^{*3}*x*x^{*3}*n)*(e*x)**m/(m^{*8} + 28*m^{*7}*n + \\
& 8*m^{*7} + 322*m^{*6}*n^{*2} + 196*m^{*6}*n + 28*m^{*6} + 1960*m^{*5}*n^{*3} + 1932*m^{*5} \\
& *n^{*2} + 588*m^{*5}*n + 56*m^{*5} + 6769*m^{*4}*n^{*4} + 9800*m^{*4}*n^{*3} + 4830*m^{*4}* \\
& n^{*2} + 980*m^{*4}*n + 70*m^{*4} + 13132*m^{*3}*n^{*5} + 27076*m^{*3}*n^{*4} + 19600*m^{*3}
\end{aligned}$$

$3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800m^3n^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 22230Aa^2b^2c^2d^2m^3n^2x^2(3n)(e^x)m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800m^3n^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 4500Aa^2b^2c^2d^2m^3n^2x^2(3n)(e^x)m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800m^3n^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 315Aa^2b^2c^2d^2m^3n^2x^2(3n)(e^x)m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800m^3n^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 34164Aa^2b^2c^2d^2m^2n^5x^2(3n)(e^x)m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800m^3n^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 84024Aa^2b^2c^2d^2m^2n^4x^2(3n)(e^x)m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 +$

$5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 65826*A*a**2*b*c*d**2*m**2*n**3*x*x**$
 $(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 22230*A*a**2*b*c*d**2*m**2*n**2*x*x**$
 $(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 3375*A*a**2*b*c*d**2*m**2*n*x*x**$
 $(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 189*A*a**2*b*c*d**2*m**2*x*x**$
 $(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 15120*A*a**2*b*c*d**2*m*n**6*x*x**$
 $(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 +$

$$\begin{aligned}
& 322*n**2 + 28*n + 1) + 68328*A*a**2*b*c*d**2*m*n**5*x*x**(3*n)*(e*x)**m/(m \\
& **8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5 \\
& *n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4* \\
& n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3 \\
& *n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m** \\
& 2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n* \\
& *2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 270 \\
& 76*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n \\
& **6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 84024*A*a \\
& **2*b*c*d**2*m*n**4*x*x**(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m* \\
& *6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5 \\
& *n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4* \\
& n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m* \\
& *3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614* \\
& m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040* \\
& m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m* \\
& n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 19 \\
& 60*n**3 + 322*n**2 + 28*n + 1) + 43884*A*a**2*b*c*d**2*m*n**3*x*x**(3*n)*(e \\
& *x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + \\
& 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9 \\
& 800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 2 \\
& 7076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + \\
& 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 483 \\
& 0*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n \\
& **5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 \\
& + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + \\
& 11115*A*a**2*b*c*d**2*m*n**2*x*x**(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 \\
& + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + \\
& 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + \\
& 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 \\
& + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 \\
& + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m** \\
& 2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 \\
& + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769* \\
& n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 1350*A*a**2*b*c*d**2*m*n*x*x**(3* \\
& n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m* \\
& *6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n** \\
& 4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n** \\
& 5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m* \\
& *3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 \\
& + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 3939 \\
& 6*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040* \\
& n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + \\
& 1) + 63*A*a**2*b*c*d**2*m*x*x**(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + \\
& 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 58
\end{aligned}$$

$$\begin{aligned}
& 8m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980 \\
& m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6 \\
& 440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + \\
& 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + \\
& 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1 \\
& 932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 \\
& + 1960n^3 + 322n^2 + 28n + 1) + 15120A^2b^2c^2d^2n^6x^3 \\
& (e^x)^3 / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 \\
& + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 \\
& + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 \\
& + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 \\
& + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + \\
& 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396 \\
& mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 \\
& + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) \\
& + 34164A^2b^2c^2d^2n^5x^3(e^x)^3 / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 \\
& + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 \\
& + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 \\
& + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 \\
& + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 \\
& + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 \\
& + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 676 \\
& 9n^4 + 1960n^3 + 322n^2 + 28n + 1) + 28008A^2b^2c^2d^2n^4x^3 \\
& (e^x)^3 / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 2 \\
& 8m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 \\
& + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 \\
& + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 5 \\
& 6m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 \\
& + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + \\
& 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5 \\
& 040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n \\
& + 1) + 10971A^2b^2c^2d^2n^3x^3(e^x)^3 / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 \\
& + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 \\
& + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 \\
& + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 \\
& + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + \\
& 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800m \\
& mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 \\
& + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 2223A^2b^2c^2d^2n^2x^3 \\
& (e^x)^3 / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n \\
& + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 \\
& + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 \\
& + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n
\end{aligned}$$

$$\begin{aligned}
& + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 \\
& + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1 \\
& + 225A^2bcd^2n^3x^3(3n)(ex)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n \\
& + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n \\
& + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 \\
& + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) \\
& + 9A^2bcd^2x^3(3n)(ex)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 \\
& + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 \\
& + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 \\
& + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 3A^2bd^3m^7x^3(4n)(ex)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n \\
& + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 \\
& + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 \\
& + 1960n^3 + 322n^2 + 28n + 1) + 72A^2bd^3m^6n^3x^3(4n)(ex)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 \\
& + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n \\
& + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) \\
& + 21A^2bd^3m^6x^3(4n)(ex)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n \\
& + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 \\
& + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) +
\end{aligned}$$

$$\begin{aligned}
& m^{n^2} + 196m^n + 8m + 5040n^{n^7} + 13068n^{n^6} + 13132n^{n^5} + 6769n^{n^4} + \\
& 1960n^{n^3} + 322n^{n^2} + 28n + 1) + 678Aa^{n^2}b^d^{n^3}m^{n^5}n^{n^2}x^{n^4}(4n)(e^x)^{nm}/(m^{n^8} + 28m^{n^7}n + 8m^{n^7} + 322m^{n^6}n^{n^2} + 196m^{n^6}n + 28m^{n^6} + \\
& 1960m^{n^5}n^{n^3} + 1932m^{n^5}n^{n^2} + 588m^{n^5}n + 56m^{n^5} + 6769m^{n^4}n^{n^4} + \\
& 9800m^{n^4}n^{n^3} + 4830m^{n^4}n^{n^2} + 980m^{n^4}n + 70m^{n^4} + 13132m^{n^3}n^{n^5} + \\
& 27076m^{n^3}n^{n^4} + 19600m^{n^3}n^{n^3} + 6440m^{n^3}n^{n^2} + 980m^{n^3}n + 56m^{n^3} + \\
& 13068m^{n^2}n^{n^6} + 39396m^{n^2}n^{n^5} + 40614m^{n^2}n^{n^4} + 19600m^{n^2}n^{n^3} + 48 \\
& 30m^{n^2}n^{n^2} + 588m^{n^2}n + 28m^{n^2} + 5040m^n n^{n^7} + 26136m^n n^{n^6} + 39396m^n \\
& n^{n^5} + 27076m^n n^{n^4} + 9800m^n n^{n^3} + 1932m^n n^{n^2} + 196m^n + 8m + 5040n^{n^7} \\
& + 13068n^{n^6} + 13132n^{n^5} + 6769n^{n^4} + 1960n^{n^3} + 322n^{n^2} + 28n + 1) + \\
& 432Aa^{n^2}b^d^{n^3}m^{n^5}n^{n^4}x^{n^4}(4n)(e^x)^{nm}/(m^{n^8} + 28m^{n^7}n + 8m^{n^7} + \\
& 322m^{n^6}n^{n^2} + 196m^{n^6}n + 28m^{n^6} + 1960m^{n^5}n^{n^3} + 1932m^{n^5}n^{n^2} + 58 \\
& 8m^{n^5}n + 56m^{n^5} + 6769m^{n^4}n^{n^4} + 9800m^{n^4}n^{n^3} + 4830m^{n^4}n^{n^2} + 980 \\
& m^{n^4}n + 70m^{n^4} + 13132m^{n^3}n^{n^5} + 27076m^{n^3}n^{n^4} + 19600m^{n^3}n^{n^3} + 6 \\
& 440m^{n^3}n^{n^2} + 980m^{n^3}n + 56m^{n^3} + 13068m^{n^2}n^{n^6} + 39396m^{n^2}n^{n^5} + \\
& 40614m^{n^2}n^{n^4} + 19600m^{n^2}n^{n^3} + 4830m^{n^2}n^{n^2} + 588m^{n^2}n + 28m^{n^2} + \\
& 5040m^n n^{n^7} + 26136m^n n^{n^6} + 39396m^n n^{n^5} + 27076m^n n^{n^4} + 9800m^n n^{n^3} + 1 \\
& 932m^n n^{n^2} + 196m^n + 8m + 5040n^{n^7} + 13068n^{n^6} + 13132n^{n^5} + 6769n^{n^4} \\
& + 1960n^{n^3} + 322n^{n^2} + 28n + 1) + 63Aa^{n^2}b^d^{n^3}m^{n^5}n^{n^4}x^{n^4}(4n)(e^x)^{nm}/(m^{n^8} + 28m^{n^7}n + 8m^{n^7} + 322m^{n^6}n^{n^2} + 196m^{n^6}n + 28m^{n^6} + 1 \\
& 960m^{n^5}n^{n^3} + 1932m^{n^5}n^{n^2} + 588m^{n^5}n + 56m^{n^5} + 6769m^{n^4}n^{n^4} + 98 \\
& 00m^{n^4}n^{n^3} + 4830m^{n^4}n^{n^2} + 980m^{n^4}n + 70m^{n^4} + 13132m^{n^3}n^{n^5} + 27 \\
& 076m^{n^3}n^{n^4} + 19600m^{n^3}n^{n^3} + 6440m^{n^3}n^{n^2} + 980m^{n^3}n + 56m^{n^3} + 1 \\
& 3068m^{n^2}n^{n^6} + 39396m^{n^2}n^{n^5} + 40614m^{n^2}n^{n^4} + 19600m^{n^2}n^{n^3} + 4830 \\
& m^{n^2}n^{n^2} + 588m^{n^2}n + 28m^{n^2} + 5040m^n n^{n^7} + 26136m^n n^{n^6} + 39396m^n n^{n^5} \\
& + 27076m^n n^{n^4} + 9800m^n n^{n^3} + 1932m^n n^{n^2} + 196m^n + 8m + 5040n^{n^7} + \\
& 13068n^{n^6} + 13132n^{n^5} + 6769n^{n^4} + 1960n^{n^3} + 322n^{n^2} + 28n + 1) + 3 \\
& 168Aa^{n^2}b^d^{n^3}m^{n^4}n^{n^3}x^{n^4}(4n)(e^x)^{nm}/(m^{n^8} + 28m^{n^7}n + 8m^{n^7} \\
& + 322m^{n^6}n^{n^2} + 196m^{n^6}n + 28m^{n^6} + 1960m^{n^5}n^{n^3} + 1932m^{n^5}n^{n^2} + \\
& 588m^{n^5}n + 56m^{n^5} + 6769m^{n^4}n^{n^4} + 9800m^{n^4}n^{n^3} + 4830m^{n^4}n^{n^2} + 9 \\
& 80m^{n^4}n + 70m^{n^4} + 13132m^{n^3}n^{n^5} + 27076m^{n^3}n^{n^4} + 19600m^{n^3}n^{n^3} + \\
& 6440m^{n^3}n^{n^2} + 980m^{n^3}n + 56m^{n^3} + 13068m^{n^2}n^{n^6} + 39396m^{n^2}n^{n^5} \\
& + 40614m^{n^2}n^{n^4} + 19600m^{n^2}n^{n^3} + 4830m^{n^2}n^{n^2} + 588m^{n^2}n + 28m^{n^2} \\
& + 5040m^n n^{n^7} + 26136m^n n^{n^6} + 39396m^n n^{n^5} + 27076m^n n^{n^4} + 9800m^n n^{n^3} + \\
& 1932m^n n^{n^2} + 196m^n + 8m + 5040n^{n^7} + 13068n^{n^6} + 13132n^{n^5} + 6769n^{n^4} \\
& + 1960n^{n^3} + 322n^{n^2} + 28n + 1) + 3390Aa^{n^2}b^d^{n^3}m^{n^4}n^{n^2}x^{n^4}(4n)(e^x)^{nm}/(m^{n^8} + 28m^{n^7}n + 8m^{n^7} + 322m^{n^6}n^{n^2} + 196m^{n^6}n + 28 \\
& m^{n^6} + 1960m^{n^5}n^{n^3} + 1932m^{n^5}n^{n^2} + 588m^{n^5}n + 56m^{n^5} + 6769m^{n^4}n^{n^4} \\
& n^{n^4} + 9800m^{n^4}n^{n^3} + 4830m^{n^4}n^{n^2} + 980m^{n^4}n + 70m^{n^4} + 13132m^{n^3}n^{n^5} \\
& n^{n^5} + 27076m^{n^3}n^{n^4} + 19600m^{n^3}n^{n^3} + 6440m^{n^3}n^{n^2} + 980m^{n^3}n + 56 \\
& m^{n^3} + 13068m^{n^2}n^{n^6} + 39396m^{n^2}n^{n^5} + 40614m^{n^2}n^{n^4} + 19600m^{n^2}n^{n^3} \\
& + 4830m^{n^2}n^{n^2} + 588m^{n^2}n + 28m^{n^2} + 5040m^n n^{n^7} + 26136m^n n^{n^6} + 3 \\
& 9396m^n n^{n^5} + 27076m^n n^{n^4} + 9800m^n n^{n^3} + 1932m^n n^{n^2} + 196m^n + 8m + 50 \\
& 40n^{n^7} + 13068n^{n^6} + 13132n^{n^5} + 6769n^{n^4} + 1960n^{n^3} + 322n^{n^2} + 28n \\
& + 1) + 1080Aa^{n^2}b^d^{n^3}m^{n^4}n^{n^4}x^{n^4}(4n)(e^x)^{nm}/(m^{n^8} + 28m^{n^7}n + 8
\end{aligned}$$

$$\begin{aligned}
& *m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n \\
& **2 + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n* \\
& *2 + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}* \\
& n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2} \\
& *n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 2 \\
& 8*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m* \\
& n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + \\
& 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 105*A*a^{**2}*b*d^{**3}*m^{**4}*x*x^{**} \\
& (4*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28 \\
& *m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}* \\
& n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}* \\
& n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56 \\
& *m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n* \\
& *3 + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 3 \\
& 9396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 50 \\
& 40*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n \\
& + 1) + 7635*A*a^{**2}*b*d^{**3}*m^{**3}*n^{**4}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n \\
& + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**} \\
& 5*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4} \\
& *n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m* \\
& *3*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m \\
& **2*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n \\
& + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800 \\
& *m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} \\
& + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 12672*A*a^{**2}*b*d^{**3}*m^{**3}* \\
& n^{**3}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m \\
& **6*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + \\
& 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 1 \\
& 3132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m \\
& **3*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 196 \\
& 00*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136* \\
& m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n \\
& + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n \\
& **2 + 28*n + 1) + 6780*A*a^{**2}*b*d^{**3}*m^{**3}*n^{**2}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**8} + \\
& 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} \\
& + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + \\
& 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} \\
& + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} \\
& + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 5 \\
& 88*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n \\
& **4 + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + \\
& 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 1440*A*a^{**2}*b*d \\
& **3*m^{**3}*n*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + \\
& 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m \\
& **5 + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m*
\end{aligned}$$

$$\begin{aligned}
& *4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + \\
& 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 \\
& + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + \\
& 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 19 \\
& 6*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + \\
& 322*n**2 + 28*n + 1) + 105*A*a**2*b*d**3*m**3*x*x**(4*n)*(e*x)**m/(m**8 + \\
& 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 \\
& + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + \\
& 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 \\
& + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 \\
& + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 5 \\
& 88*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n \\
& **4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + \\
& 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 8856*A*a**2*b*d \\
& **3*m**2*n**5*x*x**(4*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n** \\
& 2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 5 \\
& 6*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70 \\
& *m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n** \\
& 2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n \\
& **4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 \\
& + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + \\
& 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n** \\
& 3 + 322*n**2 + 28*n + 1) + 22905*A*a**2*b*d**3*m**2*n**4*x*x**(4*n)*(e*x)** \\
& m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960* \\
& m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m \\
& **4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076* \\
& m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068 \\
& *m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m** \\
& 2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + \\
& 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 130 \\
& 68*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 19008 \\
& *A*a**2*b*d**3*m**2*n**3*x*x**(4*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 3 \\
& 22*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588 \\
& *m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980* \\
& m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 64 \\
& 40*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 4 \\
& 0614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + \\
& 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 19 \\
& 32*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 \\
& + 1960*n**3 + 322*n**2 + 28*n + 1) + 6780*A*a**2*b*d**3*m**2*n**2*x*x**(4* \\
& n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m* \\
& **6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n** \\
& 4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n** \\
& 5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m* \\
& **3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3
\end{aligned}$$

+ 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 1080*A*a**2*b*d**3*m**2*n*x*x**(4*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 63*A*a**2*b*d**3*m**2*x*x**(4*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 3780*A*a**2*b*d**3*m*n**6*x*x**(4*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 17712*A*a**2*b*d**3*m*n**5*x*x**(4*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 22905*A*a**2*b*d**3*m*n**4*x*x**(4*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 +

$$\begin{aligned}
& + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + \\
& 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} \\
& + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} \\
& + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} \\
& + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} \\
& + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769 \\
& *n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 7635*A*a^{**2}*b*d^{**3}*n^{**4}*x*x^{**}(4* \\
& n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} \\
& + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} \\
& + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} \\
& + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} \\
& + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} \\
& + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396 \\
& *m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} \\
& + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 3168*A*a^{**2}*b*d^{**3}*n^{**3}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} \\
& + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + \\
& 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + \\
& 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} \\
& + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} \\
& + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} \\
& + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} \\
& + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} \\
& + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 678*A*a^{**2}*b*d^{**3}*n^{**2}*x*x^{**}(4*n) \\
& *(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} \\
& + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} \\
& + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} \\
& + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} \\
& + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + \\
& 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396* \\
& m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} \\
& + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) \\
& + 72*A*a^{**2}*b*d^{**3}*n*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322* \\
& m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5} \\
& *n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4} \\
& *n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440* \\
& m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 4061 \\
& 4*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 504 \\
& 0*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932* \\
& m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + \\
& 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 3*A*a^{**2}*b*d^{**3}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**8} \\
& + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} \\
& + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} \\
& + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} \\
& + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*
\end{aligned}$$

$n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2}$
 $+ 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076$
 $*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6}$
 $+ 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 3*A*a*b^{**2}$
 $*c^{**3}*m^{**7}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} +$
 $196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5}$
 $*5 + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4}$
 $+ 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} +$
 $980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4}$
 $+ 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 2$
 $6136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196$
 $*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} +$
 $322*n^{**2} + 28*n + 1) + 78*A*a*b^{**2}*c^{**3}*m^{**6}*n*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**8} +$
 $28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3}$
 $+ 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} +$
 $4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4}$
 $+ 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6}$
 $+ 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 5$
 $88*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n$
 $**4 + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} +$
 $13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 21*A*a*b^{**2}*c^{**3}$
 $*m^{**6}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196$
 $*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5}$
 $+ 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} +$
 $13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980$
 $*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 1$
 $9600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 2613$
 $6*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m$
 $n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322$
 $*n^{**2} + 28*n + 1) + 810*A*a*b^{**2}*c^{**3}*m^{**5}*n^{**2}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**8} +$
 $28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3}$
 $+ 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3}$
 $+ 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4}$
 $+ 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6}$
 $+ 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} +$
 $588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m$
 $n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} +$
 $13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 468*A*a*b^{**2}*c$
 $**3*m^{**5}*n*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} +$
 $196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m$
 $**5 + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m$
 $**4 + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} +$
 $980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4}$
 $+ 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} +$
 $26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 19$

$$\begin{aligned}
& 6*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + \\
& 322*n**2 + 28*n + 1) + 63*A*a*b**2*c**3*m**5*x*x**(2*n)*(e*x)**m/(m**8 + 2 \\
& 8*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + \\
& 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + \\
& 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + \\
& 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 \\
& + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 58 \\
& 8*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n* \\
& *4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 1 \\
& 3132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 4260*A*a*b**2*c* \\
& *3*m**4*n**3*x*x**(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 \\
& + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56 \\
& *m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70* \\
& m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 \\
& + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n* \\
& *4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 \\
& + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + \\
& 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 \\
& + 322*n**2 + 28*n + 1) + 4050*A*a*b**2*c**3*m**4*n**2*x*x**(2*n)*(e*x)**m/ \\
& (m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m* \\
& *5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m** \\
& 4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m* \\
& *3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m \\
& **2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2* \\
& n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 2 \\
& 7076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068 \\
& *n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 1170*A* \\
& a*b**2*c**3*m**4*n*x*x**(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m** \\
& 6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5* \\
& n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n \\
& + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m** \\
& 3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m \\
& **2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m \\
& *n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n \\
& **2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 196 \\
& 0*n**3 + 322*n**2 + 28*n + 1) + 105*A*a*b**2*c**3*m**4*x*x**(2*n)*(e*x)**m/ \\
& (m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m* \\
& *5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m** \\
& 4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m* \\
& *3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m \\
& **2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2* \\
& n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 2 \\
& 7076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068 \\
& *n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 11787*A \\
& *a*b**2*c**3*m**3*n**4*x*x**(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322
\end{aligned}$$

$$\begin{aligned}
& *m^{**6}n^{**2} + 196*m^{**6}n + 28*m^{**6} + 1960*m^{**5}n^{**3} + 1932*m^{**5}n^{**2} + 588*m^{**5}n \\
& + 56*m^{**5} + 6769*m^{**4}n^{**4} + 9800*m^{**4}n^{**3} + 4830*m^{**4}n^{**2} + 980*m^{**4}n \\
& + 70*m^{**4} + 13132*m^{**3}n^{**5} + 27076*m^{**3}n^{**4} + 19600*m^{**3}n^{**3} + 6440 \\
& *m^{**3}n^{**2} + 980*m^{**3}n + 56*m^{**3} + 13068*m^{**2}n^{**6} + 39396*m^{**2}n^{**5} + 406 \\
& 14*m^{**2}n^{**4} + 19600*m^{**2}n^{**3} + 4830*m^{**2}n^{**2} + 588*m^{**2}n + 28*m^{**2} + 50 \\
& 40*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932 \\
& *m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + \\
& 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 17040*A*a*b^{**2}*c^{**3}*m^{**3}n^{**3}*x*x^{**}(2*n \\
&)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}n + 8*m^{**7} + 322*m^{**6}n^{**2} + 196*m^{**6}n + 28*m^{**6} \\
& + 1960*m^{**5}n^{**3} + 1932*m^{**5}n^{**2} + 588*m^{**5}n + 56*m^{**5} + 6769*m^{**4}n^{**4} \\
& + 9800*m^{**4}n^{**3} + 4830*m^{**4}n^{**2} + 980*m^{**4}n + 70*m^{**4} + 13132*m^{**3}n^{**5} \\
& + 27076*m^{**3}n^{**4} + 19600*m^{**3}n^{**3} + 6440*m^{**3}n^{**2} + 980*m^{**3}n + 56*m^{**3} \\
& + 13068*m^{**2}n^{**6} + 39396*m^{**2}n^{**5} + 40614*m^{**2}n^{**4} + 19600*m^{**2}n^{**3} + \\
& 4830*m^{**2}n^{**2} + 588*m^{**2}n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396 \\
& *m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n \\
& **7 + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1 \\
&) + 8100*A*a*b^{**2}*c^{**3}*m^{**3}n^{**2}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}n + 8* \\
& m^{**7} + 322*m^{**6}n^{**2} + 196*m^{**6}n + 28*m^{**6} + 1960*m^{**5}n^{**3} + 1932*m^{**5}n* \\
& *2 + 588*m^{**5}n + 56*m^{**5} + 6769*m^{**4}n^{**4} + 9800*m^{**4}n^{**3} + 4830*m^{**4}n^{**2} \\
& + 980*m^{**4}n + 70*m^{**4} + 13132*m^{**3}n^{**5} + 27076*m^{**3}n^{**4} + 19600*m^{**3}n \\
& **3 + 6440*m^{**3}n^{**2} + 980*m^{**3}n + 56*m^{**3} + 13068*m^{**2}n^{**6} + 39396*m^{**2}n \\
& **5 + 40614*m^{**2}n^{**4} + 19600*m^{**2}n^{**3} + 4830*m^{**2}n^{**2} + 588*m^{**2}n + 28 \\
& *m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n \\
& **3 + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6 \\
& 769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 1560*A*a*b^{**2}*c^{**3}*m^{**3}n*x*x \\
& ***(2*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}n + 8*m^{**7} + 322*m^{**6}n^{**2} + 196*m^{**6}n + \\
& 28*m^{**6} + 1960*m^{**5}n^{**3} + 1932*m^{**5}n^{**2} + 588*m^{**5}n + 56*m^{**5} + 6769*m^{**4}n^{**4} \\
& + 9800*m^{**4}n^{**3} + 4830*m^{**4}n^{**2} + 980*m^{**4}n + 70*m^{**4} + 13132*m^{**3}n^{**5} \\
& + 27076*m^{**3}n^{**4} + 19600*m^{**3}n^{**3} + 6440*m^{**3}n^{**2} + 980*m^{**3}n + 56*m^{**3} \\
& + 13068*m^{**2}n^{**6} + 39396*m^{**2}n^{**5} + 40614*m^{**2}n^{**4} + 19600*m^{**2}n \\
& **3 + 4830*m^{**2}n^{**2} + 588*m^{**2}n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + \\
& 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + \\
& 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28 \\
& *n + 1) + 105*A*a*b^{**2}*c^{**3}*m^{**3}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}n + 8* \\
& m^{**7} + 322*m^{**6}n^{**2} + 196*m^{**6}n + 28*m^{**6} + 1960*m^{**5}n^{**3} + 1932*m^{**5}n* \\
& *2 + 588*m^{**5}n + 56*m^{**5} + 6769*m^{**4}n^{**4} + 9800*m^{**4}n^{**3} + 4830*m^{**4}n^{**2} \\
& + 980*m^{**4}n + 70*m^{**4} + 13132*m^{**3}n^{**5} + 27076*m^{**3}n^{**4} + 19600*m^{**3}n \\
& **3 + 6440*m^{**3}n^{**2} + 980*m^{**3}n + 56*m^{**3} + 13068*m^{**2}n^{**6} + 39396*m^{**2}n \\
& **5 + 40614*m^{**2}n^{**4} + 19600*m^{**2}n^{**3} + 4830*m^{**2}n^{**2} + 588*m^{**2}n + 28 \\
& *m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n \\
& **3 + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6 \\
& 769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 15822*A*a*b^{**2}*c^{**3}*m^{**2}n^{**5} \\
& *x*x^{**}(2*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}n + 8*m^{**7} + 322*m^{**6}n^{**2} + 196*m^{**6}n \\
& + 28*m^{**6} + 1960*m^{**5}n^{**3} + 1932*m^{**5}n^{**2} + 588*m^{**5}n + 56*m^{**5} + 6769 \\
& *m^{**4}n^{**4} + 9800*m^{**4}n^{**3} + 4830*m^{**4}n^{**2} + 980*m^{**4}n + 70*m^{**4} + 13132
\end{aligned}$$

$$\begin{aligned}
& *m^{*3}n^{*5} + 27076*m^{*3}n^{*4} + 19600*m^{*3}n^{*3} + 6440*m^{*3}n^{*2} + 980*m^{*3}n \\
& n + 56*m^{*3} + 13068*m^{*2}n^{*6} + 39396*m^{*2}n^{*5} + 40614*m^{*2}n^{*4} + 19600*m \\
& **2n^{*3} + 4830*m^{*2}n^{*2} + 588*m^{*2}n + 28*m^{*2} + 5040*m*n^{*7} + 26136*m*n \\
& *6 + 39396*m*n^{*5} + 27076*m*n^{*4} + 9800*m*n^{*3} + 1932*m*n^{*2} + 196*m*n + 8* \\
& m + 5040*n^{*7} + 13068*n^{*6} + 13132*n^{*5} + 6769*n^{*4} + 1960*n^{*3} + 322*n^{*2} \\
& + 28*n + 1) + 35361*A*a*b^{*2}c^{*3}m^{*2}n^{*4}x*x^{*2}(2*n)*(e*x)^{**m}/(m^{**8} + 28* \\
& m^{**7}n + 8*m^{**7} + 322*m^{**6}n^{*2} + 196*m^{**6}n + 28*m^{**6} + 1960*m^{**5}n^{*3} + 1 \\
& 932*m^{**5}n^{*2} + 588*m^{**5}n + 56*m^{**5} + 6769*m^{**4}n^{*4} + 9800*m^{**4}n^{*3} + 48 \\
& 30*m^{**4}n^{*2} + 980*m^{**4}n + 70*m^{**4} + 13132*m^{**3}n^{*5} + 27076*m^{**3}n^{*4} + 1 \\
& 9600*m^{**3}n^{*3} + 6440*m^{**3}n^{*2} + 980*m^{**3}n + 56*m^{**3} + 13068*m^{**2}n^{*6} + \\
& 39396*m^{**2}n^{*5} + 40614*m^{**2}n^{*4} + 19600*m^{**2}n^{*3} + 4830*m^{**2}n^{*2} + 588* \\
& m^{**2}n + 28*m^{**2} + 5040*m*n^{*7} + 26136*m*n^{*6} + 39396*m*n^{*5} + 27076*m*n^{*4} \\
& + 9800*m*n^{*3} + 1932*m*n^{*2} + 196*m*n + 8*m + 5040*n^{*7} + 13068*n^{*6} + 131 \\
& 32*n^{*5} + 6769*n^{*4} + 1960*n^{*3} + 322*n^{*2} + 28*n + 1) + 25560*A*a*b^{*2}c^{*3} \\
& m^{*2}n^{*3}x*x^{*2}(2*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}n + 8*m^{**7} + 322*m^{**6}n^{*2} \\
& + 196*m^{**6}n + 28*m^{**6} + 1960*m^{**5}n^{*3} + 1932*m^{**5}n^{*2} + 588*m^{**5}n + 56* \\
& m^{**5} + 6769*m^{**4}n^{*4} + 9800*m^{**4}n^{*3} + 4830*m^{**4}n^{*2} + 980*m^{**4}n + 70*m \\
& **4 + 13132*m^{**3}n^{*5} + 27076*m^{**3}n^{*4} + 19600*m^{**3}n^{*3} + 6440*m^{**3}n^{*2} \\
& + 980*m^{**3}n + 56*m^{**3} + 13068*m^{**2}n^{*6} + 39396*m^{**2}n^{*5} + 40614*m^{**2}n^{*4} \\
& + 19600*m^{**2}n^{*3} + 4830*m^{**2}n^{*2} + 588*m^{**2}n + 28*m^{**2} + 5040*m*n^{*7} + \\
& 26136*m*n^{*6} + 39396*m*n^{*5} + 27076*m*n^{*4} + 9800*m*n^{*3} + 1932*m*n^{*2} + 1 \\
& 96*m*n + 8*m + 5040*n^{*7} + 13068*n^{*6} + 13132*n^{*5} + 6769*n^{*4} + 1960*n^{*3} \\
& + 322*n^{*2} + 28*n + 1) + 8100*A*a*b^{*2}c^{*3}m^{*2}n^{*2}x*x^{*2}(2*n)*(e*x)^{**m}/(\\
& m^{**8} + 28*m^{**7}n + 8*m^{**7} + 322*m^{**6}n^{*2} + 196*m^{**6}n + 28*m^{**6} + 1960*m^{** \\
& 5n^{*3} + 1932*m^{**5}n^{*2} + 588*m^{**5}n + 56*m^{**5} + 6769*m^{**4}n^{*4} + 9800*m^{**4} \\
& n^{*3} + 4830*m^{**4}n^{*2} + 980*m^{**4}n + 70*m^{**4} + 13132*m^{**3}n^{*5} + 27076*m^{** \\
& 3n^{*4} + 19600*m^{**3}n^{*3} + 6440*m^{**3}n^{*2} + 980*m^{**3}n + 56*m^{**3} + 13068*m \\
& *2n^{*6} + 39396*m^{**2}n^{*5} + 40614*m^{**2}n^{*4} + 19600*m^{**2}n^{*3} + 4830*m^{**2}n \\
& **2 + 588*m^{**2}n + 28*m^{**2} + 5040*m*n^{*7} + 26136*m*n^{*6} + 39396*m*n^{*5} + 27 \\
& 076*m*n^{*4} + 9800*m*n^{*3} + 1932*m*n^{*2} + 196*m*n + 8*m + 5040*n^{*7} + 13068* \\
& n^{*6} + 13132*n^{*5} + 6769*n^{*4} + 1960*n^{*3} + 322*n^{*2} + 28*n + 1) + 1170*A*a \\
& *b^{*2}c^{*3}m^{*2}n^{*2}x*x^{*2}(2*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}n + 8*m^{**7} + 322*m^{**6} \\
& n^{*2} + 196*m^{**6}n + 28*m^{**6} + 1960*m^{**5}n^{*3} + 1932*m^{**5}n^{*2} + 588*m^{**5}n \\
& + 56*m^{**5} + 6769*m^{**4}n^{*4} + 9800*m^{**4}n^{*3} + 4830*m^{**4}n^{*2} + 980*m^{**4}n \\
& + 70*m^{**4} + 13132*m^{**3}n^{*5} + 27076*m^{**3}n^{*4} + 19600*m^{**3}n^{*3} + 6440*m^{**3} \\
& n^{*2} + 980*m^{**3}n + 56*m^{**3} + 13068*m^{**2}n^{*6} + 39396*m^{**2}n^{*5} + 40614*m \\
& *2n^{*4} + 19600*m^{**2}n^{*3} + 4830*m^{**2}n^{*2} + 588*m^{**2}n + 28*m^{**2} + 5040*m \\
& n^{*7} + 26136*m*n^{*6} + 39396*m*n^{*5} + 27076*m*n^{*4} + 9800*m*n^{*3} + 1932*m*n^{* \\
& *2} + 196*m*n + 8*m + 5040*n^{*7} + 13068*n^{*6} + 13132*n^{*5} + 6769*n^{*4} + 1960 \\
& n^{*3} + 322*n^{*2} + 28*n + 1) + 63*A*a*b^{*2}c^{*3}m^{*2}x*x^{*2}(2*n)*(e*x)^{**m}/(m \\
& **8 + 28*m^{**7}n + 8*m^{**7} + 322*m^{**6}n^{*2} + 196*m^{**6}n + 28*m^{**6} + 1960*m^{**5} \\
& n^{*3} + 1932*m^{**5}n^{*2} + 588*m^{**5}n + 56*m^{**5} + 6769*m^{**4}n^{*4} + 9800*m^{**4}n \\
& n^{*3} + 4830*m^{**4}n^{*2} + 980*m^{**4}n + 70*m^{**4} + 13132*m^{**3}n^{*5} + 27076*m^{**3} \\
& n^{*4} + 19600*m^{**3}n^{*3} + 6440*m^{**3}n^{*2} + 980*m^{**3}n + 56*m^{**3} + 13068*m \\
& *2n^{*6} + 39396*m^{**2}n^{*5} + 40614*m^{**2}n^{*4} + 19600*m^{**2}n^{*3} + 4830*m^{**2}n
\end{aligned}$$

$$\begin{aligned}
& *2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 270 \\
& 76*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n \\
& **6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 7560*A*a* \\
& b**2*c**3*m*n**6*x*x**(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6* \\
& n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n \\
& + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + \\
& 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3* \\
& n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m** \\
& 2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n \\
& **7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n** \\
& 2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960* \\
& n**3 + 322*n**2 + 28*n + 1) + 31644*A*a*b**2*c**3*m*n**5*x*x**(2*n)*(e*x)** \\
& m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960* \\
& m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m \\
& **4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076* \\
& m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068 \\
& *m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m** \\
& 2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + \\
& 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 130 \\
& 68*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 35361 \\
& *A*a*b**2*c**3*m*n**4*x*x**(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322* \\
& m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m* \\
& *5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m** \\
& 4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440* \\
& m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 4061 \\
& 4*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 504 \\
& 0*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932* \\
& m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + \\
& 1960*n**3 + 322*n**2 + 28*n + 1) + 17040*A*a*b**2*c**3*m*n**3*x*x**(2*n)*(e \\
& *x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + \\
& 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9 \\
& 800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 2 \\
& 7076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + \\
& 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 483 \\
& 0*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n \\
& **5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 \\
& + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + \\
& 4050*A*a*b**2*c**3*m*n**2*x*x**(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + \\
& 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 58 \\
& 8*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980 \\
& *m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6 \\
& 440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + \\
& 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + \\
& 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1 \\
& 932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**
\end{aligned}$$

$$\begin{aligned}
& 4 + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 468*A*a*b^{**2}*c^{**3}*m*n*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1 \\
& 960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 98 \\
& 00*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27 \\
& 076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 1 \\
& 3068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830 \\
& *m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} \\
& + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + \\
& 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 2 \\
& 1*A*a*b^{**2}*c^{**3}*m*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6} \\
& *n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n \\
& + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n \\
& + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3} \\
& *n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m* \\
& *2*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m* \\
& n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n* \\
& *2 + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960 \\
& *n^{**3} + 322*n^{**2} + 28*n + 1) + 7560*A*a*b^{**2}*c^{**3}*n^{**6}*x*x^{**}(2*n)*(e*x)^{**m}/ \\
& (m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m* \\
& *5*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{** \\
& 4*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m* \\
& *3*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m \\
& **2*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}* \\
& n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 2 \\
& 7076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068 \\
& *n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 15822*A \\
& *a*b^{**2}*c^{**3}*n^{**5}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6} \\
& *n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n \\
& + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n \\
& + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3} \\
& *n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m* \\
& *2*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m* \\
& n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n* \\
& *2 + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960 \\
& *n^{**3} + 322*n^{**2} + 28*n + 1) + 11787*A*a*b^{**2}*c^{**3}*n^{**4}*x*x^{**}(2*n)*(e*x)^{**m} \\
& /(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m \\
& **5*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m* \\
& *4*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m \\
& **3*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068* \\
& m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2} \\
& *n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + \\
& 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 1306 \\
& 8*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 4260*A \\
& *a*b^{**2}*c^{**3}*n^{**3}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6} \\
& *n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n
\end{aligned}$$

$$\begin{aligned}
& + 56m^5 + 6769m^4n + 9800m^4n^2 + 4830m^4n^3 + 800m^4n^4 \\
& + 70m^4 + 13132m^3n + 27076m^3n^2 + 19600m^3n^3 + 6440m^3n^4 \\
& + 980m^3n^5 + 56m^3 + 13068m^2n + 39396m^2n^2 + 40614m^2n^3 \\
& + 19600m^2n^4 + 4830m^2n^5 + 588m^2n + 28m^2 + 5040m^2n^6 \\
& + 26136m^2n^7 + 39396m^2n^8 + 27076m^2n^9 + 9800m^2n^{10} + 1932m^2n^{11} \\
& + 196m^2n + 8m + 5040n^7 + 13068n^8 + 13132n^9 + 6769n^{10} + 1960n^{11} \\
& + 322n^2 + 28n + 1) + 810A^2a^2b^2c^3n^2x^2(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^2n^7 + 26136m^2n^6 + 39396m^2n^5 + 27076m^2n^4 + 9800m^2n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040n^7 + 13068n^8 + 13132n^9 + 6769n^{10} + 1960n^{11} + 322n^2 + 28n + 1) + 78A^2a^2b^2c^3n^2x^2(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^2n^7 + 26136m^2n^6 + 39396m^2n^5 + 27076m^2n^4 + 9800m^2n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040n^7 + 13068n^8 + 13132n^9 + 6769n^{10} + 1960n^{11} + 322n^2 + 28n + 1) + 3A^2a^2b^2c^3n^2x^2(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^2n^7 + 26136m^2n^6 + 39396m^2n^5 + 27076m^2n^4 + 9800m^2n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040n^7 + 13068n^8 + 13132n^9 + 6769n^{10} + 1960n^{11} + 322n^2 + 28n + 1) + 9A^2a^2b^2c^2d^2m^7x^2(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^2n^7 + 26136m^2n^6 + 39396m^2n^5 + 27076m^2n^4 + 9800m^2n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040n^7 + 13068n^8 + 13132n^9 + 6769n^{10} + 1960n^{11} + 322n^2 + 28n + 1) + 225A^2a^2b^2c^2d^2m^6n^2x^2(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 393
\end{aligned}$$

$$\begin{aligned}
& *n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1 \\
& 960*n^{**3} + 322*n^{**2} + 28*n + 1) + 11115*A*a*b^{**2}*c^{**2}*d*m^{**4}*n^{**2}*x*x^{**3}*n \\
&)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**} \\
& 6 + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} \\
& + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} \\
& + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**} \\
& 3 + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + \\
& 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396 \\
& *m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n \\
& **7 + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1 \\
&) + 3375*A*a*b^{**2}*c^{**2}*d*m^{**4}*n*x*x^{**3}*n*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m \\
& **7 + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**} \\
& 2 + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} \\
& + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**} \\
& *3 + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n \\
& **5 + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28* \\
& m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**} \\
& *3 + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 67 \\
& 69*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 315*A*a*b^{**2}*c^{**2}*d*m^{**4}*x*x^{**} \\
& (3*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28 \\
& *m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}* \\
& n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}* \\
& n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56 \\
& *m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**} \\
& *3 + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 3 \\
& 9396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 50 \\
& 40*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n \\
& + 1) + 28008*A*a*b^{**2}*c^{**2}*d*m^{**3}*n^{**4}*x*x^{**3}*n*(e*x)^{**m}/(m^{**8} + 28*m^{**7} \\
& *n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932* \\
& m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m \\
& **4*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600 \\
& *m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 3939 \\
& 6*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2} \\
& *n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9 \\
& 800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n \\
& **5 + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 43884*A*a*b^{**2}*c^{**2}*d* \\
& m^{**3}*n^{**3}*x*x^{**3}*n*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + \\
& 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m* \\
& *5 + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**} \\
& 4 + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + \\
& 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} \\
& + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 2 \\
& 6136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196 \\
& *m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + \\
& 322*n^{**2} + 28*n + 1) + 22230*A*a*b^{**2}*c^{**2}*d*m^{**3}*n^{**2}*x*x^{**3}*n*(e*x)^{**m}/
\end{aligned}$$

$30m^{4n^2} + 980m^{4n} + 70m^4 + 13132m^{3n^5} + 27076m^{3n^4} + 19600m^{3n^3} + 6440m^{3n^2} + 980m^{3n} + 56m^3 + 13068m^{2n^6} + 39396m^{2n^5} + 40614m^{2n^4} + 19600m^{2n^3} + 4830m^{2n^2} + 588m^{2n} + 28m^2 + 5040m^{n^7} + 26136m^{n^6} + 39396m^{n^5} + 27076m^{n^4} + 9800m^{n^3} + 1932m^{n^2} + 196m^n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 22230A^a b^{2c} d^{2m^2 n^2} x^{(3n)} (e^x)^{m^8 + 28m^7 n + 8m^7 + 322m^6 n^2 + 196m^6 n + 28m^6 + 1960m^5 n^3 + 1932m^5 n^2 + 588m^5 n + 56m^5 + 6769m^4 n^4 + 9800m^4 n^3 + 4830m^4 n^2 + 980m^4 n + 70m^4 + 13132m^3 n^5 + 27076m^3 n^4 + 19600m^3 n^3 + 6440m^3 n^2 + 980m^3 n + 56m^3 + 13068m^{2n^6} + 39396m^{2n^5} + 40614m^{2n^4} + 19600m^{2n^3} + 4830m^{2n^2} + 588m^{2n} + 28m^2 + 5040m^{n^7} + 26136m^{n^6} + 39396m^{n^5} + 27076m^{n^4} + 9800m^{n^3} + 1932m^{n^2} + 196m^n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 3375A^a b^{2c} d^{2m^2 n} x^{(3n)} (e^x)^{m^8 + 28m^7 n + 8m^7 + 322m^6 n^2 + 196m^6 n + 28m^6 + 1960m^5 n^3 + 1932m^5 n^2 + 588m^5 n + 56m^5 + 6769m^4 n^4 + 9800m^4 n^3 + 4830m^4 n^2 + 980m^4 n + 70m^4 + 13132m^3 n^5 + 27076m^3 n^4 + 19600m^3 n^3 + 6440m^3 n^2 + 980m^3 n + 56m^3 + 13068m^{2n^6} + 39396m^{2n^5} + 40614m^{2n^4} + 19600m^{2n^3} + 4830m^{2n^2} + 588m^{2n} + 28m^2 + 5040m^{n^7} + 26136m^{n^6} + 39396m^{n^5} + 27076m^{n^4} + 9800m^{n^3} + 1932m^{n^2} + 196m^n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 189A^a b^{2c} d^{2m^2 n} x^{(3n)} (e^x)^{m^8 + 28m^7 n + 8m^7 + 322m^6 n^2 + 196m^6 n + 28m^6 + 1960m^5 n^3 + 1932m^5 n^2 + 588m^5 n + 56m^5 + 6769m^4 n^4 + 9800m^4 n^3 + 4830m^4 n^2 + 980m^4 n + 70m^4 + 13132m^3 n^5 + 27076m^3 n^4 + 19600m^3 n^3 + 6440m^3 n^2 + 980m^3 n + 56m^3 + 13068m^{2n^6} + 39396m^{2n^5} + 40614m^{2n^4} + 19600m^{2n^3} + 4830m^{2n^2} + 588m^{2n} + 28m^2 + 5040m^{n^7} + 26136m^{n^6} + 39396m^{n^5} + 27076m^{n^4} + 9800m^{n^3} + 1932m^{n^2} + 196m^n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 15120A^a b^{2c} d^{2m^2 n^6} x^{(3n)} (e^x)^{m^8 + 28m^7 n + 8m^7 + 322m^6 n^2 + 196m^6 n + 28m^6 + 1960m^5 n^3 + 1932m^5 n^2 + 588m^5 n + 56m^5 + 6769m^4 n^4 + 9800m^4 n^3 + 4830m^4 n^2 + 980m^4 n + 70m^4 + 13132m^3 n^5 + 27076m^3 n^4 + 19600m^3 n^3 + 6440m^3 n^2 + 980m^3 n + 56m^3 + 13068m^{2n^6} + 39396m^{2n^5} + 40614m^{2n^4} + 19600m^{2n^3} + 4830m^{2n^2} + 588m^{2n} + 28m^2 + 5040m^{n^7} + 26136m^{n^6} + 39396m^{n^5} + 27076m^{n^4} + 9800m^{n^3} + 1932m^{n^2} + 196m^n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 68328A^a b^{2c} d^{2m^2 n^5} x^{(3n)} (e^x)^{m^8 + 28m^7 n + 8m^7 + 322m^6 n^2 + 196m^6 n + 28m^6 + 1960m^5 n^3 + 1932m^5 n^2 + 588m^5 n + 56m^5 + 6769m^4 n^4 + 9800m^4 n^3 + 4830m^4 n^2 + 980m^4 n + 70m^4 + 13132m^3 n^5 + 27076m^3 n^4 + 19600m^3 n^3 + 6440m^3 n^2 + 980m^3 n + 56m^3 + 13068m^{2n^6} + 39396m^{2n^5} +$

$40614m^{2n+4} + 19600m^{2n+3} + 4830m^{2n+2} + 588m^{2n} + 28m^{**2}$
 $+ 5040m^{n+7} + 26136m^{n+6} + 39396m^{n+5} + 27076m^{n+4} + 9800m^{n+3} +$
 $1932m^{n+2} + 196m^n + 8m + 5040n^{**7} + 13068n^{**6} + 13132n^{**5} + 6769n^{**4}$
 $+ 1960n^{**3} + 322n^{**2} + 28n + 1) + 84024A^*a^*b^{**2}c^{**2}d^*m^{n+4}x^*x^{**}($
 $3n)^*(e^*x)^{**m}/(m^{**8} + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6}$
 $+ 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4}$
 $+ 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5}$
 $+ 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3}$
 $+ 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3}$
 $+ 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + 5040m^{n+7} + 26136m^{n+6} + 39$
 $396m^{n+5} + 27076m^{n+4} + 9800m^{n+3} + 1932m^{n+2} + 196m^n + 8m + 504$
 $0n^{**7} + 13068n^{**6} + 13132n^{**5} + 6769n^{**4} + 1960n^{**3} + 322n^{**2} + 28n$
 $+ 1) + 43884A^*a^*b^{**2}c^{**2}d^*m^{n+3}x^*x^{**}(3n)^*(e^*x)^{**m}/(m^{**8} + 28m^{**7}n +$
 $8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**3} + 1932m^{**5}$
 $n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2}$
 $+ 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} + 27076m^{**3}n^{**4} + 19600m^{**3}$
 $n^{**3} + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} + 13068m^{**2}n^{**6} + 39396m^{**2}$
 $n^{**5} + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588m^{**2}n +$
 $28m^{**2} + 5040m^{n+7} + 26136m^{n+6} + 39396m^{n+5} + 27076m^{n+4} + 9800m^{n+3}$
 $+ 1932m^{n+2} + 196m^n + 8m + 5040n^{**7} + 13068n^{**6} + 13132n^{**5}$
 $+ 6769n^{**4} + 1960n^{**3} + 322n^{**2} + 28n + 1) + 11115A^*a^*b^{**2}c^{**2}d^*m^{n+2}$
 $x^*x^{**}(3n)^*(e^*x)^{**m}/(m^{**8} + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}$
 $n + 28m^{**6} + 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} + 67$
 $69m^{**4}n^{**4} + 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} + 131$
 $32m^{**3}n^{**5} + 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} + 980m^{**3}$
 $n + 56m^{**3} + 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19600$
 $m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + 5040m^{n+7} + 26136m^{n+6}$
 $+ 39396m^{n+5} + 27076m^{n+4} + 9800m^{n+3} + 1932m^{n+2} + 196m^n +$
 $8m + 5040n^{**7} + 13068n^{**6} + 13132n^{**5} + 6769n^{**4} + 1960n^{**3} + 322n^{**2}$
 $+ 28n + 1) + 1350A^*a^*b^{**2}c^{**2}d^*m^{n+1}x^*x^{**}(3n)^*(e^*x)^{**m}/(m^{**8} + 28m^{**7}$
 $n + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**3} + 1932$
 $m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**3} + 4830m^{**4}$
 $n^{**2} + 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} + 27076m^{**3}n^{**4} + 19600m^{**3}$
 $n^{**3} + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} + 13068m^{**2}n^{**6} + 393$
 $96m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588m^{**2}$
 $n + 28m^{**2} + 5040m^{n+7} + 26136m^{n+6} + 39396m^{n+5} + 27076m^{n+4} +$
 $9800m^{n+3} + 1932m^{n+2} + 196m^n + 8m + 5040n^{**7} + 13068n^{**6} + 13132n^{**5}$
 $+ 6769n^{**4} + 1960n^{**3} + 322n^{**2} + 28n + 1) + 63A^*a^*b^{**2}c^{**2}d^*m^{n+1}$
 $x^*x^{**}(3n)^*(e^*x)^{**m}/(m^{**8} + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n$
 $+ 28m^{**6} + 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4}$
 $n^{**4} + 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} + 13132m^{**3}$
 $n^{**5} + 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} + 980m^{**3}n$
 $+ 56m^{**3} + 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19600m^{**2}$
 $n^{**3} + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + 5040m^{n+7} + 26136m^{n+6}$
 $+ 39396m^{n+5} + 27076m^{n+4} + 9800m^{n+3} + 1932m^{n+2} + 196m^n + 8m$

+ 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 15120*A*a*b**2*c**2*d*n**6*x*x**(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 34164*A*a*b**2*c**2*d*n**5*x*x**(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 28008*A*a*b**2*c**2*d*n**4*x*x**(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 10971*A*a*b**2*c**2*d*n**3*x*x**(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 2223*A*a*b**2*c**2*d*n**2*x*x**(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 225*A*a*b**2*c**2*d*n*x*x**(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 1

$96m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5$
 $5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4$
 $+ 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 9$
 $80m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 +$
 $19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^1n^7 + 26$
 $136m^1n^6 + 39396m^1n^5 + 27076m^1n^4 + 9800m^1n^3 + 1932m^1n^2 + 196$
 $m^1n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 3$
 $22n^2 + 28n + 1) + 9A^2ab^2c^2d^2x^3(e^x)^m/(m^8 + 28m^7$
 $n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932$
 $m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m$
 $^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600$
 $m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 3939$
 $6m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2$
 $n + 28m^2 + 5040m^1n^7 + 26136m^1n^6 + 39396m^1n^5 + 27076m^1n^4 + 9$
 $800m^1n^3 + 1932m^1n^2 + 196m^1n + 8m + 5040n^7 + 13068n^6 + 13132n$
 $^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 9A^2ab^2c^2d^2m^7$
 $x^4(e^x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6$
 $n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769$
 $m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132$
 $m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3$
 $n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m$
 $^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^1n^7 + 26136m^1n$
 $^6 + 39396m^1n^5 + 27076m^1n^4 + 9800m^1n^3 + 1932m^1n^2 + 196m^1n + 8$
 $m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2$
 $+ 28n + 1) + 216A^2ab^2c^2d^2m^6n^4x^4(e^x)^m/(m^8 + 28m^7$
 $n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932$
 $m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830$
 $m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 1960$
 $0m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 393$
 $96m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2$
 $n + 28m^2 + 5040m^1n^7 + 26136m^1n^6 + 39396m^1n^5 + 27076m^1n^4 +$
 $9800m^1n^3 + 1932m^1n^2 + 196m^1n + 8m + 5040n^7 + 13068n^6 + 13132$
 $n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 63A^2ab^2c^2d^2m^6$
 $x^4(e^x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6$
 $n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 67$
 $69m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 131$
 $32m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3$
 $n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600$
 $m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^1n^7 + 26136m^1$
 $n^6 + 39396m^1n^5 + 27076m^1n^4 + 9800m^1n^3 + 1932m^1n^2 + 196m^1n +$
 $8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2$
 $+ 28n + 1) + 2034A^2ab^2c^2d^2m^5n^2x^4(e^x)^m/(m^8 +$
 $28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3$
 $+ 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 +$
 $4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4$

$$\begin{aligned}
& + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} \\
& + 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 5 \\
& 88m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} + 27076m^{*n} \\
& n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196m^{*n} + 8m + 5040n^{*7} + 13068n^{*6} + \\
& 13132n^{*5} + 6769n^{*4} + 1960n^{*3} + 322n^{*2} + 28n + 1) + 1296A^*a^*b^{*2}*c \\
& *d^{*2}*m^{*5}n^*x^*x^{*}(4n)^*(e^*x)^{*m}/(m^{*8} + 28m^{*7}n + 8m^{*7} + 322m^{*6}n^{*2} \\
& + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5}n + 56 \\
& m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n + 70* \\
& m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} \\
& + 980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} \\
& + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} \\
& + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + \\
& 196m^{*n} + 8m + 5040n^{*7} + 13068n^{*6} + 13132n^{*5} + 6769n^{*4} + 1960n^{*3} \\
& + 322n^{*2} + 28n + 1) + 189A^*a^*b^{*2}*c*d^{*2}*m^{*5}x^*x^{*}(4n)^*(e^*x)^{*m}/(m^{*8} \\
& + 28m^{*7}n + 8m^{*7} + 322m^{*6}n^{*2} + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} \\
& + 1932m^{*5}n^{*2} + 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} \\
& + 4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} \\
& + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} \\
& + 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} \\
& + 588m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} + 27076 \\
& m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196m^{*n} + 8m + 5040n^{*7} + 13068n^{*6} \\
& + 13132n^{*5} + 6769n^{*4} + 1960n^{*3} + 322n^{*2} + 28n + 1) + 9504A^*a^*b^* \\
& *2*c*d^{*2}*m^{*4}n^{*3}x^*x^{*}(4n)^*(e^*x)^{*m}/(m^{*8} + 28m^{*7}n + 8m^{*7} + 322m^{*6} \\
& n^{*2} + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5} \\
& n + 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n \\
& + 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3} \\
& n^{*2} + 980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m^{*2} \\
& n^{*4} + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*n} \\
& n^{*7} + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n} \\
& n^{*2} + 196m^{*n} + 8m + 5040n^{*7} + 13068n^{*6} + 13132n^{*5} + 6769n^{*4} + 19 \\
& 60n^{*3} + 322n^{*2} + 28n + 1) + 10170A^*a^*b^{*2}*c*d^{*2}*m^{*4}n^{*2}x^*x^{*}(4n) \\
& *(e^*x)^{*m}/(m^{*8} + 28m^{*7}n + 8m^{*7} + 322m^{*6}n^{*2} + 196m^{*6}n + 28m^{*6} \\
& + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} \\
& + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} \\
& + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3} \\
& + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + \\
& 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + 26136m^{*n}n^{*6} + 39396m^{*n} \\
& n^{*5} + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196m^{*n} + 8m + 5040n^{*7} \\
& + 13068n^{*6} + 13132n^{*5} + 6769n^{*4} + 1960n^{*3} + 322n^{*2} + 28n + 1) \\
& + 3240A^*a^*b^{*2}*c*d^{*2}*m^{*4}n^*x^*x^{*}(4n)^*(e^*x)^{*m}/(m^{*8} + 28m^{*7}n + 8m^{*7} \\
& + 322m^{*6}n^{*2} + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} \\
& + 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} \\
& + 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} \\
& + 6440m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} \\
& + 40614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2}
\end{aligned}$$

$$\begin{aligned}
& **2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 \\
& + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 676 \\
& 9*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 315*A*a*b**2*c*d**2*m**4*x*x** \\
& (4*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28* \\
& m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n \\
& **4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n \\
& **5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56* \\
& m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n** \\
& 3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39 \\
& 396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 504 \\
& 0*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n \\
& + 1) + 22905*A*a*b**2*c*d**2*m**3*n**4*x*x** (4*n)*(e*x)**m/(m**8 + 28*m**7* \\
& n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m \\
& **5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m* \\
& *4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600* \\
& m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396 \\
& *m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2* \\
& n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 98 \\
& 00*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n* \\
& *5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 38016*A*a*b**2*c*d**2*m \\
& **3*n**3*x*x** (4*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 1 \\
& 96*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m** \\
& 5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 \\
& + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 9 \\
& 80*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + \\
& 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26 \\
& 136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196* \\
& m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 3 \\
& 22*n**2 + 28*n + 1) + 20340*A*a*b**2*c*d**2*m**3*n**2*x*x** (4*n)*(e*x)**m/(\\
& m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m** \\
& 5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4 \\
& *n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m** \\
& 3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m* \\
& *2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n \\
& **2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27 \\
& 076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068* \\
& n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 4320*A*a \\
& *b**2*c*d**2*m**3*n*x*x** (4*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m* \\
& *6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5 \\
& *n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4* \\
& n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m* \\
& *3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614* \\
& m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040* \\
& m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m* \\
& n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 19
\end{aligned}$$

$$\begin{aligned}
& 60n^3 + 322n^2 + 28n + 1) + 315A^2b^2cd^2m^3xxx(4n)(ex)m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960 \\
& m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076 \\
& m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2 \\
& n^2 + 588m^2n + 28m^2 + 5040m^7n + 26136m^6n^6 + 39396m^6n^5 + 27076m^6n^4 + 9800m^6n^3 + 1932m^6n^2 + 196m^6n + 8m^6 + 5040n^7 + 13 \\
& 068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 26568A^2b^2cd^2m^2n^5xxx(4n)(ex)m / (m^8 + 28m^7n + 8m^7 \\
& + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 9 \\
& 80m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 \\
& + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^7n + 26136m^6n^6 + 39396m^6n^5 + 27076m^6n^4 + 9800m^6n^3 + \\
& 1932m^6n^2 + 196m^6n + 8m^6 + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 68715A^2b^2cd^2m^2n^4xxx \\
& (4n)(ex)m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + \\
& 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + \\
& 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^7n + 26136m^6n^6 + 39396m^6n^5 + 27076m^6n^4 + \\
& 9800m^6n^3 + 1932m^6n^2 + 196m^6n + 8m^6 + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 57024A^2b^2cd^2m^2n^3xxx \\
& (4n)(ex)m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + \\
& 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + \\
& 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^7n + 26136m^6n^6 + 39396m^6n^5 + 27076m^6n^4 + \\
& 9800m^6n^3 + 1932m^6n^2 + 196m^6n + 8m^6 + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 20340A^2b^2cd^2m^2n^2xxx \\
& (4n)(ex)m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + \\
& 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + \\
& 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^7n + 26136m^6n^6 + 39396m^6n^5 + 27076m^6n^4 + \\
& 9800m^6n^3 + 1932m^6n^2 + 196m^6n + 8m^6 + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 3240A^2b^2cd^2m^2n^xxx \\
& (4n)(ex)m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + \\
& 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + \\
& 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^7n + 26136m^6n^6 + 39396m^6n^5 + 27076m^6n^4 + 9800m^6n^3 + 1932m^6n^2 + \\
& 196m^6n + 8m^6 + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 3240A^2b^2cd^2m^2n^xxx(4n)(ex)m / (m^8 + 28m^7n + \\
& 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + \\
& 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + \\
& 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^7n + 26136m^6n^6 + 39396m^6n^5 + 27076m^6n^4 + 9800m^6n^3 + 1932m^6n^2 + 196m^6n + 8m^6 + 5040n^7 + \\
& 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1)
\end{aligned}$$

$$\begin{aligned}
& 5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4 \\
& n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3 \\
& n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^ \\
& *2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^ \\
& **2 + 588m^2n + 28m^2 + 5040m^*n^7 + 26136m^*n^6 + 39396m^*n^5 + 27 \\
& 076m^*n^4 + 9800m^*n^3 + 1932m^*n^2 + 196m^*n + 8m + 5040n^*7 + 13068* \\
& n**6 + 13132n**5 + 6769n**4 + 1960n**3 + 322n**2 + 28n + 1) + 189A*a \\
& b**2*c*d**2*m**2*x*x**(4*n)*(e*x)**m/(m**8 + 28m**7*n + 8m**7 + 322m**6* \\
& n**2 + 196m**6*n + 28m**6 + 1960m**5n**3 + 1932m**5n**2 + 588m**5n \\
& + 56m**5 + 6769m**4*n**4 + 9800m**4n**3 + 4830m**4n**2 + 980m**4n + \\
& 70m**4 + 13132m**3n**5 + 27076m**3n**4 + 19600m**3n**3 + 6440m**3* \\
& n**2 + 980m**3n + 56m**3 + 13068m**2n**6 + 39396m**2n**5 + 40614m** \\
& 2*n**4 + 19600m**2n**3 + 4830m**2n**2 + 588m**2n + 28m**2 + 5040m^*n^ \\
& **7 + 26136m^*n^6 + 39396m^*n^5 + 27076m^*n^4 + 9800m^*n^3 + 1932m^*n^* \\
& 2 + 196m^*n + 8m + 5040n^*7 + 13068n**6 + 13132n**5 + 6769n**4 + 1960* \\
& n**3 + 322n**2 + 28n + 1) + 11340A*a*b**2*c*d**2*m^*n**6*x*x**(4*n)*(e*x) \\
& **m/(m**8 + 28m**7*n + 8m**7 + 322m**6n**2 + 196m**6*n + 28m**6 + 196 \\
& 0m**5n**3 + 1932m**5n**2 + 588m**5n + 56m**5 + 6769m**4*n**4 + 9800 \\
& *m**4n**3 + 4830m**4n**2 + 980m**4n + 70m**4 + 13132m**3n**5 + 2707 \\
& 6m**3n**4 + 19600m**3n**3 + 6440m**3n**2 + 980m**3n + 56m**3 + 130 \\
& 68m**2n**6 + 39396m**2n**5 + 40614m**2n**4 + 19600m**2n**3 + 4830m^ \\
& **2n**2 + 588m**2n + 28m**2 + 5040m^*n^7 + 26136m^*n^6 + 39396m^*n^5 \\
& + 27076m^*n^4 + 9800m^*n^3 + 1932m^*n^2 + 196m^*n + 8m + 5040n^*7 + 1 \\
& 3068n**6 + 13132n**5 + 6769n**4 + 1960n**3 + 322n**2 + 28n + 1) + 531 \\
& 36A*a*b**2*c*d**2*m^*n**5*x*x**(4*n)*(e*x)**m/(m**8 + 28m**7*n + 8m**7 + \\
& 322m**6n**2 + 196m**6*n + 28m**6 + 1960m**5n**3 + 1932m**5n**2 + 58 \\
& 8m**5n + 56m**5 + 6769m**4*n**4 + 9800m**4n**3 + 4830m**4n**2 + 980 \\
& *m**4n + 70m**4 + 13132m**3n**5 + 27076m**3n**4 + 19600m**3n**3 + 6 \\
& 440m**3n**2 + 980m**3n + 56m**3 + 13068m**2n**6 + 39396m**2n**5 + \\
& 40614m**2n**4 + 19600m**2n**3 + 4830m**2n**2 + 588m**2n + 28m**2 + \\
& 5040m^*n^7 + 26136m^*n^6 + 39396m^*n^5 + 27076m^*n^4 + 9800m^*n^3 + 1 \\
& 932m^*n^2 + 196m^*n + 8m + 5040n^*7 + 13068n**6 + 13132n**5 + 6769n** \\
& 4 + 1960n**3 + 322n**2 + 28n + 1) + 68715A*a*b**2*c*d**2*m^*n**4*x*x**(4 \\
& *n)*(e*x)**m/(m**8 + 28m**7*n + 8m**7 + 322m**6n**2 + 196m**6*n + 28m^ \\
& **6 + 1960m**5n**3 + 1932m**5n**2 + 588m**5n + 56m**5 + 6769m**4n^* \\
& *4 + 9800m**4n**3 + 4830m**4n**2 + 980m**4n + 70m**4 + 13132m**3n^* \\
& *5 + 27076m**3n**4 + 19600m**3n**3 + 6440m**3n**2 + 980m**3n + 56m^ \\
& **3 + 13068m**2n**6 + 39396m**2n**5 + 40614m**2n**4 + 19600m**2n**3 \\
& + 4830m**2n**2 + 588m**2n + 28m**2 + 5040m^*n^7 + 26136m^*n^6 + 393 \\
& 96m^*n^5 + 27076m^*n^4 + 9800m^*n^3 + 1932m^*n^2 + 196m^*n + 8m + 5040 \\
& n^*7 + 13068n**6 + 13132n**5 + 6769n**4 + 1960n**3 + 322n**2 + 28n + \\
& 1) + 38016A*a*b**2*c*d**2*m^*n**3*x*x**(4*n)*(e*x)**m/(m**8 + 28m**7*n + \\
& 8m**7 + 322m**6n**2 + 196m**6*n + 28m**6 + 1960m**5n**3 + 1932m**5n^* \\
& **2 + 588m**5n + 56m**5 + 6769m**4n**4 + 9800m**4n**3 + 4830m**4n^* \\
& **2 + 980m**4n + 70m**4 + 13132m**3n**5 + 27076m**3n**4 + 19600m**3
\end{aligned}$$

$n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 10170A^2ab^2c^2d^2m^2n^2x^4(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 1296A^2ab^2c^2d^2m^2n^2x^4(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 63A^2ab^2c^2d^2m^2n^2x^4(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 11340A^2ab^2c^2d^2n^6x^4(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 26568A^2ab^2c^2d^2n^5x^4(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 26568A^2ab^2c^2d^2n^5x^4(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1)$


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**(5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n +
28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**
4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**
3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n +
56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*
n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 +
39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m +
5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28
*n + 1) + 69*A*a*b**2*d**3*m**6*n*x*x***(5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8
*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n
**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n*
**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*
n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2
*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 2
8*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m
n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 +
6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 21*A*a*b**2*d**3*m**6*x*x***(
5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*
m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n
**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n
**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*
m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**
3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39
396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 504
0*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n
+ 1) + 621*A*a*b**2*d**3*m**5*n**2*x*x***(5*n)*(e*x)**m/(m**8 + 28*m**7*n +
8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*
n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n
**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3
*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**
2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n +
28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m
n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 +
6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 414*A*a*b**2*d**3*m**5*n*x*
x***(5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n +
28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m*
**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m*
**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n +
56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2
*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6
+ 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m +
5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 2
8*n + 1) + 63*A*a*b**2*d**3*m**5*x*x***(5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*
m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n*
**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**

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$$\begin{aligned}
& 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 1 \\
& 9296*A*a*b^{**2}*d^{**3}*m^{**2}*n^{**4}*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} \\
& + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + \\
& 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + \\
& 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} \\
& + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} \\
& + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} \\
& + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} \\
& + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769* \\
& n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 16650*A*a*b^{**2}*d^{**3}*m^{**2}*n^{**3}*x*x \\
& ^{**}(5*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + \\
& 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4} \\
& *n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3} \\
& *n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + \\
& 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}* \\
& n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + \\
& 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + \\
& 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28 \\
& *n + 1) + 6210*A*a*b^{**2}*d^{**3}*m^{**2}*n^{**2}*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}* \\
& n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m \\
& ^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m \\
& ^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600* \\
& m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396 \\
& *m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}* \\
& n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 98 \\
& 00*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n \\
& ^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 1035*A*a*b^{**2}*d^{**3}*m^{**2} \\
& *n*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6} \\
& *n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 67 \\
& 69*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 131 \\
& 32*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3} \\
& *n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600 \\
& *m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m \\
& n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + \\
& 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} \\
& + 28*n + 1) + 63*A*a*b^{**2}*d^{**3}*m^{**2}*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n \\
& + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m \\
& ^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m \\
& ^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600* \\
& m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396* \\
& m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n \\
& + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 980 \\
& 0*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n \\
& ^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 3024*A*a*b^{**2}*d^{**3}*m*n^{**6} \\
& *x*x^{**}(5*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}
\end{aligned}$$

$n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 676$
 $9m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 1313$
 $2m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3$
 $n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600$
 $m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^1n^7 + 26136m^1n$
 $^6 + 39396m^1n^5 + 27076m^1n^4 + 9800m^1n^3 + 1932m^1n^2 + 196m^1n + 8$
 $m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2$
 $+ 28n + 1) + 14472A^2ab^2d^3m^5n^5x^5(e^x)^m/(m^8 + 28m^7n$
 $+ 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 193$
 $2m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830$
 $m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 196$
 $00m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39$
 $396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2$
 $n + 28m^2 + 5040m^1n^7 + 26136m^1n^6 + 39396m^1n^5 + 27076m^1n^4$
 $+ 9800m^1n^3 + 1932m^1n^2 + 196m^1n + 8m + 5040n^7 + 13068n^6 + 13132$
 $n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 19296A^2ab^2d^3m^4n^4x^4$
 $(5n)(e^x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196$
 $m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5$
 $+ 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 +$
 $13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980$
 $m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 1$
 $9600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^1n^7 + 2613$
 $6m^1n^6 + 39396m^1n^5 + 27076m^1n^4 + 9800m^1n^3 + 1932m^1n^2 + 196m^1$
 $n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322$
 $n^2 + 28n + 1) + 11100A^2ab^2d^3m^3n^3x^3(5n)(e^x)^m/(m^8 +$
 $28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3$
 $+ 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 +$
 $4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4$
 $+ 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6$
 $+ 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 5$
 $88m^2n + 28m^2 + 5040m^1n^7 + 26136m^1n^6 + 39396m^1n^5 + 27076m^1n$
 $^4 + 9800m^1n^3 + 1932m^1n^2 + 196m^1n + 8m + 5040n^7 + 13068n^6 +$
 $13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 3105A^2ab^2d^3m^2n^2x^2$
 $(5n)(e^x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 +$
 $196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m$
 $^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4$
 $+ 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 +$
 $980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4$
 $+ 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^1n^7 +$
 $26136m^1n^6 + 39396m^1n^5 + 27076m^1n^4 + 9800m^1n^3 + 1932m^1n^2 + 19$
 $6m^1n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 +$
 $322n^2 + 28n + 1) + 414A^2ab^2d^3m^1n^1x^1(5n)(e^x)^m/(m^8 + 2$
 $8m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 +$
 $1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 +$
 $4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 +$

$$\begin{aligned}
& 19600m^{3n^3} + 6440m^{3n^2} + 980m^{3n} + 56m^3 + 13068m^{2n^6} \\
& + 39396m^{2n^5} + 40614m^{2n^4} + 19600m^{2n^3} + 4830m^{2n^2} + 58 \\
& 8m^{2n} + 28m^2 + 5040m^{n^7} + 26136m^{n^6} + 39396m^{n^5} + 27076m^{n^*} \\
& *4 + 9800m^{n^3} + 1932m^{n^2} + 196m^n + 8m + 5040n^{7} + 13068n^{6} + 1 \\
& 3132n^{5} + 6769n^{4} + 1960n^{3} + 322n^{2} + 28n + 1) + 21A^*a^*b^{2*d^*3} \\
& *m^*x^*x^{(5n)}*(e^*x)^{m^*}/(m^{8} + 28m^{7n} + 8m^{7} + 322m^{6n^2} + 196m^{6} \\
& 6n + 28m^{6} + 1960m^{5n^3} + 1932m^{5n^2} + 588m^{5n} + 56m^{5} + 67 \\
& 69m^{4n^4} + 9800m^{4n^3} + 4830m^{4n^2} + 980m^{4n} + 70m^{4} + 131 \\
& 32m^{3n^5} + 27076m^{3n^4} + 19600m^{3n^3} + 6440m^{3n^2} + 980m^{3n} \\
& 3n + 56m^3 + 13068m^{2n^6} + 39396m^{2n^5} + 40614m^{2n^4} + 19600 \\
& m^{2n^3} + 4830m^{2n^2} + 588m^{2n} + 28m^2 + 5040m^{n^7} + 26136m^{n^*} \\
& n^{6} + 39396m^{n^5} + 27076m^{n^4} + 9800m^{n^3} + 1932m^{n^2} + 196m^n + \\
& 8m + 5040n^{7} + 13068n^{6} + 13132n^{5} + 6769n^{4} + 1960n^{3} + 322n^{2} \\
& 2 + 28n + 1) + 3024A^*a^*b^{2*d^*3n^*6}x^*x^{(5n)}*(e^*x)^{m^*}/(m^{8} + 28m^{7} \\
& *n + 8m^{7} + 322m^{6n^2} + 196m^{6n} + 28m^{6} + 1960m^{5n^3} + 1932* \\
& m^{5n^2} + 588m^{5n} + 56m^{5} + 6769m^{4n^4} + 9800m^{4n^3} + 4830m^{*} \\
& **4n^{2} + 980m^{4n} + 70m^{4} + 13132m^{3n^5} + 27076m^{3n^4} + 19600 \\
& m^{3n^3} + 6440m^{3n^2} + 980m^{3n} + 56m^3 + 13068m^{2n^6} + 3939 \\
& 6m^{2n^5} + 40614m^{2n^4} + 19600m^{2n^3} + 4830m^{2n^2} + 588m^{2} \\
& *n + 28m^2 + 5040m^{n^7} + 26136m^{n^6} + 39396m^{n^5} + 27076m^{n^4} + 9 \\
& 800m^{n^3} + 1932m^{n^2} + 196m^n + 8m + 5040n^{7} + 13068n^{6} + 13132n^{*} \\
& **5 + 6769n^{4} + 1960n^{3} + 322n^{2} + 28n + 1) + 7236A^*a^*b^{2*d^*3n^*} \\
& 5x^*x^{(5n)}*(e^*x)^{m^*}/(m^{8} + 28m^{7n} + 8m^{7} + 322m^{6n^2} + 196m^{6} \\
& *n + 28m^{6} + 1960m^{5n^3} + 1932m^{5n^2} + 588m^{5n} + 56m^{5} + 676 \\
& 9m^{4n^4} + 9800m^{4n^3} + 4830m^{4n^2} + 980m^{4n} + 70m^{4} + 1313 \\
& 2m^{3n^5} + 27076m^{3n^4} + 19600m^{3n^3} + 6440m^{3n^2} + 980m^{3n} \\
& *n + 56m^3 + 13068m^{2n^6} + 39396m^{2n^5} + 40614m^{2n^4} + 19600* \\
& m^{2n^3} + 4830m^{2n^2} + 588m^{2n} + 28m^2 + 5040m^{n^7} + 26136m^{n^*} \\
& **6 + 39396m^{n^5} + 27076m^{n^4} + 9800m^{n^3} + 1932m^{n^2} + 196m^n + 8 \\
& *m + 5040n^{7} + 13068n^{6} + 13132n^{5} + 6769n^{4} + 1960n^{3} + 322n^{2} \\
& 2 + 28n + 1) + 6432A^*a^*b^{2*d^*3n^*4}x^*x^{(5n)}*(e^*x)^{m^*}/(m^{8} + 28m^{7} \\
& *n + 8m^{7} + 322m^{6n^2} + 196m^{6n} + 28m^{6} + 1960m^{5n^3} + 1932m^{*} \\
& **5n^{2} + 588m^{5n} + 56m^{5} + 6769m^{4n^4} + 9800m^{4n^3} + 4830m^{*} \\
& **4n^{2} + 980m^{4n} + 70m^{4} + 13132m^{3n^5} + 27076m^{3n^4} + 19600* \\
& m^{3n^3} + 6440m^{3n^2} + 980m^{3n} + 56m^3 + 13068m^{2n^6} + 39396 \\
& m^{2n^5} + 40614m^{2n^4} + 19600m^{2n^3} + 4830m^{2n^2} + 588m^{2} \\
& *n + 28m^2 + 5040m^{n^7} + 26136m^{n^6} + 39396m^{n^5} + 27076m^{n^4} + 98 \\
& 00m^{n^3} + 1932m^{n^2} + 196m^n + 8m + 5040n^{7} + 13068n^{6} + 13132n^{*} \\
& *5 + 6769n^{4} + 1960n^{3} + 322n^{2} + 28n + 1) + 2775A^*a^*b^{2*d^*3n^*3} \\
& *x^*x^{(5n)}*(e^*x)^{m^*}/(m^{8} + 28m^{7n} + 8m^{7} + 322m^{6n^2} + 196m^{6} \\
& *n + 28m^{6} + 1960m^{5n^3} + 1932m^{5n^2} + 588m^{5n} + 56m^{5} + 6769 \\
& m^{4n^4} + 9800m^{4n^3} + 4830m^{4n^2} + 980m^{4n} + 70m^{4} + 13132 \\
& m^{3n^5} + 27076m^{3n^4} + 19600m^{3n^3} + 6440m^{3n^2} + 980m^{3n^*} \\
& *n + 56m^3 + 13068m^{2n^6} + 39396m^{2n^5} + 40614m^{2n^4} + 19600m^{*} \\
& **2n^{3} + 4830m^{2n^2} + 588m^{2n} + 28m^2 + 5040m^{n^7} + 26136m^{n^*}
\end{aligned}$$

$$\begin{aligned}
& *6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8* \\
& m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 \\
& + 28*n + 1) + 621*A*a*b**2*d**3*n**2*x*x***(5*n)*(e*x)**m/(m**8 + 28*m**7*n \\
& + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m** \\
& 5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4 \\
& *n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m \\
& **3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m \\
& **2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n \\
& + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800 \\
& *m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 \\
& + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 69*A*a*b**2*d**3*n*x*x***(\\
& 5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28* \\
& m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n \\
& **4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n \\
& **5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56* \\
& m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n** \\
& 3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39 \\
& 396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 504 \\
& 0*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n \\
& + 1) + 3*A*a*b**2*d**3*x*x***(5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322 \\
& *m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m \\
& **5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m \\
& **4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440 \\
& *m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 406 \\
& 14*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 50 \\
& 40*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932 \\
& *m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + \\
& 1960*n**3 + 322*n**2 + 28*n + 1) + A*b**3*c**3*m**7*x*x***(3*n)*(e*x)**m/(m \\
& **8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5 \\
& *n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4* \\
& n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3 \\
& *n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m** \\
& 2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n* \\
& **2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 270 \\
& 76*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n \\
& **6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 25*A*b**3 \\
& *c**3*m**6*n*x*x***(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 \\
& + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56 \\
& *m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70* \\
& m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 \\
& + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n* \\
& **4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 \\
& + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + \\
& 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 \\
& + 322*n**2 + 28*n + 1) + 7*A*b**3*c**3*m**6*x*x***(3*n)*(e*x)**m/(m**8 + 28
\end{aligned}$$

$m^{7n} + 8m^{6n} + 322m^{5n} + 196m^{4n} + 28m^{3n} + 1960m^{2n} + 1932m^{n^2} + 588m^{n^3} + 56m^{n^4} + 6769m^{n^5} + 9800m^{n^6} + 4830m^{n^7} + 980m^{n^8} + 70m^{n^9} + 13132m^{n^{10}} + 27076m^{n^{11}} + 19600m^{n^{12}} + 6440m^{n^{13}} + 980m^{n^{14}} + 56m^{n^{15}} + 13068m^{n^{16}} + 39396m^{n^{17}} + 40614m^{n^{18}} + 19600m^{n^{19}} + 4830m^{n^{20}} + 588m^{n^{21}} + 28m^{n^{22}} + 5040m^{n^{23}} + 26136m^{n^{24}} + 39396m^{n^{25}} + 27076m^{n^{26}} + 9800m^{n^{27}} + 1932m^{n^{28}} + 196m^{n^{29}} + 8m^{n^{30}} + 5040m^{n^{31}} + 13068m^{n^{32}} + 13132m^{n^{33}} + 6769m^{n^{34}} + 1960m^{n^{35}} + 322m^{n^{36}} + 28m^{n^{37}} + 1) + 247A^3b^3c^3m^{5n^2}x^{3n}(e^x)^m/(m^{8n} + 28m^{7n} + 8m^{6n} + 322m^{5n} + 196m^{4n} + 28m^{3n} + 1960m^{2n} + 1932m^{n^2} + 588m^{n^3} + 56m^{n^4} + 6769m^{n^5} + 9800m^{n^6} + 4830m^{n^7} + 980m^{n^8} + 70m^{n^9} + 13132m^{n^{10}} + 27076m^{n^{11}} + 19600m^{n^{12}} + 6440m^{n^{13}} + 980m^{n^{14}} + 56m^{n^{15}} + 13068m^{n^{16}} + 39396m^{n^{17}} + 40614m^{n^{18}} + 19600m^{n^{19}} + 4830m^{n^{20}} + 588m^{n^{21}} + 28m^{n^{22}} + 5040m^{n^{23}} + 26136m^{n^{24}} + 39396m^{n^{25}} + 27076m^{n^{26}} + 9800m^{n^{27}} + 1932m^{n^{28}} + 196m^{n^{29}} + 8m^{n^{30}} + 5040m^{n^{31}} + 13068m^{n^{32}} + 13132m^{n^{33}} + 6769m^{n^{34}} + 1960m^{n^{35}} + 322m^{n^{36}} + 28m^{n^{37}} + 1) + 150A^3b^3c^3m^{5n}x^{3n}(e^x)^m/(m^{8n} + 28m^{7n} + 8m^{6n} + 322m^{5n} + 196m^{4n} + 28m^{3n} + 1960m^{2n} + 1932m^{n^2} + 588m^{n^3} + 56m^{n^4} + 6769m^{n^5} + 9800m^{n^6} + 4830m^{n^7} + 980m^{n^8} + 70m^{n^9} + 13132m^{n^{10}} + 27076m^{n^{11}} + 19600m^{n^{12}} + 6440m^{n^{13}} + 980m^{n^{14}} + 56m^{n^{15}} + 13068m^{n^{16}} + 39396m^{n^{17}} + 40614m^{n^{18}} + 19600m^{n^{19}} + 4830m^{n^{20}} + 588m^{n^{21}} + 28m^{n^{22}} + 5040m^{n^{23}} + 26136m^{n^{24}} + 39396m^{n^{25}} + 27076m^{n^{26}} + 9800m^{n^{27}} + 1932m^{n^{28}} + 196m^{n^{29}} + 8m^{n^{30}} + 5040m^{n^{31}} + 13068m^{n^{32}} + 13132m^{n^{33}} + 6769m^{n^{34}} + 1960m^{n^{35}} + 322m^{n^{36}} + 28m^{n^{37}} + 1) + 1219A^3b^3c^3m^{4n^3}x^{3n}(e^x)^m/(m^{8n} + 28m^{7n} + 8m^{6n} + 322m^{5n} + 196m^{4n} + 28m^{3n} + 1960m^{2n} + 1932m^{n^2} + 588m^{n^3} + 56m^{n^4} + 6769m^{n^5} + 9800m^{n^6} + 4830m^{n^7} + 980m^{n^8} + 70m^{n^9} + 13132m^{n^{10}} + 27076m^{n^{11}} + 19600m^{n^{12}} + 6440m^{n^{13}} + 980m^{n^{14}} + 56m^{n^{15}} + 13068m^{n^{16}} + 39396m^{n^{17}} + 40614m^{n^{18}} + 19600m^{n^{19}} + 4830m^{n^{20}} + 588m^{n^{21}} + 28m^{n^{22}} + 5040m^{n^{23}} + 26136m^{n^{24}} + 39396m^{n^{25}} + 27076m^{n^{26}} + 9800m^{n^{27}} + 1932m^{n^{28}} + 196m^{n^{29}} + 8m^{n^{30}} + 5040m^{n^{31}} + 13068m^{n^{32}} + 13132m^{n^{33}} + 6769m^{n^{34}} + 1960m^{n^{35}} + 322m^{n^{36}} + 28m^{n^{37}} + 1) + 1235A^3b^3c^3m^{4n^2}x^{3n}(e^x)^m/(m^{8n} + 28m^{7n} + 8m^{6n} + 322m^{5n} + 196m^{4n} + 28m^{3n} + 1960m^{2n} + 1932m^{n^2} + 588m^{n^3} + 56m^{n^4} + 6769m^{n^5} + 9800m^{n^6} + 4830m^{n^7} + 980m^{n^8} + 70m^{n^9} + 13132m^{n^{10}} + 27076m^{n^{11}} + 19600m^{n^{12}} + 6440m^{n^{13}} + 980m^{n^{14}} + 56m^{n^{15}} + 13068m^{n^{16}} + 39396m^{n^{17}} + 40614m^{n^{18}} + 19600m^{n^{19}} + 4830m^{n^{20}} + 588m^{n^{21}} + 28m^{n^{22}} + 5040m^{n^{23}} + 26136m^{n^{24}} + 39396m^{n^{25}} + 27076m^{n^{26}} + 9800m^{n^{27}} + 1932m^{n^{28}} + 196m^{n^{29}} + 8m^{n^{30}} + 5040m^{n^{31}} + 13068m^{n^{32}} + 13132m^{n^{33}} + 6769m^{n^{34}} + 1960m^{n^{35}} + 322m^{n^{36}} + 28m^{n^{37}} + 1)$

+ 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 375*A*b**3*c**3*m**4*n*x*x*(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 35*A*b**3*c**3*m**4*x*x*(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 3112*A*b**3*c**3*m**3*n**4*x*x*(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 4876*A*b**3*c**3*m**3*n**3*x*x*(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 2470*A*b**3*c**3*m**3*n**2*x*x*(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 5

$88m^{2n} + 28m^2 + 5040m^{n7} + 26136m^{n6} + 39396m^{n5} + 27076m^{n4} + 9800m^{n3} + 1932m^{n2} + 196m^n + 8m + 5040n^{7} + 13068n^{6} + 13132n^{5} + 6769n^{4} + 1960n^{3} + 322n^{2} + 28n + 1) + 500A^3b^3c^3$
 $m^3n^3x^3(3n)(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5$
 $+ 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4$
 $+ 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^{n7} + 26136m^{n6} + 39396m^{n5} + 27076m^{n4} + 9800m^{n3} + 1932m^{n2} + 196m^n + 8m + 5040n^{7} + 13068n^{6} + 13132n^{5} + 6769n^{4} + 1960n^{3} + 322n^{2} + 28n + 1) + 35A^3b^3c^3m^3x^3(3n)(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^{n7} + 26136m^{n6} + 39396m^{n5} + 27076m^{n4} + 9800m^{n3} + 1932m^{n2} + 196m^n + 8m + 5040n^{7} + 13068n^{6} + 13132n^{5} + 6769n^{4} + 1960n^{3} + 322n^{2} + 28n + 1) + 3796A^3b^3c^3m^2n^5x^3(3n)(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^{n7} + 26136m^{n6} + 39396m^{n5} + 27076m^{n4} + 9800m^{n3} + 1932m^{n2} + 196m^n + 8m + 5040n^{7} + 13068n^{6} + 13132n^{5} + 6769n^{4} + 1960n^{3} + 322n^{2} + 28n + 1) + 9336A^3b^3c^3m^2n^4x^3(3n)(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^{n7} + 26136m^{n6} + 39396m^{n5} + 27076m^{n4} + 9800m^{n3} + 1932m^{n2} + 196m^n + 8m + 5040n^{7} + 13068n^{6} + 13132n^{5} + 6769n^{4} + 1960n^{3} + 322n^{2} + 28n + 1) + 7314A^3b^3c^3m^2n^3x^3(3n)(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^{n7} + 26136m^{n6} + 39396m^{n5} + 27076m^{n4} + 9800m^{n3} + 1932m^{n2} + 196m^n + 8m + 5040n^{7} + 13068n^{6} + 13132n^{5} + 6769n^{4} + 1960n^{3} +$

$$\begin{aligned}
& 322n^2 + 28n + 1) + 2470A^3b^3c^3m^2n^2x^3(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^1n^7 + 26136m^1n^6 + 39396m^1n^5 + 27076m^1n^4 + 9800m^1n^3 + 1932m^1n^2 + 196m^1n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 375A^3b^3c^3m^2n^2x^3(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^1n^7 + 26136m^1n^6 + 39396m^1n^5 + 27076m^1n^4 + 9800m^1n^3 + 1932m^1n^2 + 196m^1n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 21A^3b^3c^3m^2n^2x^3(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^1n^7 + 26136m^1n^6 + 39396m^1n^5 + 27076m^1n^4 + 9800m^1n^3 + 1932m^1n^2 + 196m^1n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 1680A^3b^3c^3m^6n^6x^3(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^1n^7 + 26136m^1n^6 + 39396m^1n^5 + 27076m^1n^4 + 9800m^1n^3 + 1932m^1n^2 + 196m^1n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 7592A^3b^3c^3m^5n^5x^3(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^1n^7 + 26136m^1n^6 + 39396m^1n^5 + 27076m^1n^4 + 9800m^1n^3 + 1932m^1n^2 + 196m^1n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 9336A^3b^3c^3m^4n^4x^3(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 +
\end{aligned}$$

$$\begin{aligned}
& 40614m^{2n+4} + 19600m^{2n+3} + 4830m^{2n+2} + 588m^{2n} + 28m^{2n} \\
& + 5040m^{n+7} + 26136m^{n+6} + 39396m^{n+5} + 27076m^{n+4} + 9800m^{n+3} + \\
& 1932m^{n+2} + 196m^n + 8m + 5040n^{7} + 13068n^{6} + 13132n^{5} + 6769n^{4} \\
& + 1960n^{3} + 322n^{2} + 28n + 1) + 3796A^3b^3c^3n^5x^3(e \\
& *x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + \\
& 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9 \\
& 800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 2 \\
& 7076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + \\
& 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 483 \\
& 0m^2n^2 + 588m^2n + 28m^2 + 5040m^{n+7} + 26136m^{n+6} + 39396m^{n+5} \\
& + 27076m^{n+4} + 9800m^{n+3} + 1932m^{n+2} + 196m^n + 8m + 5040n^{7} \\
& + 13068n^{6} + 13132n^{5} + 6769n^{4} + 1960n^{3} + 322n^{2} + 28n + 1) + \\
& 3112A^3b^3c^3n^4x^3(e*x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + \\
& 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + \\
& 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + \\
& 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068 \\
& m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588 \\
& m^2n + 28m^2 + 5040m^{n+7} + 26136m^{n+6} + 39396m^{n+5} + 27076m^{n+4} \\
& + 9800m^{n+3} + 1932m^{n+2} + 196m^n + 8m + 5040n^{7} + 13068n^{6} + 13132n^{5} \\
& + 6769n^{4} + 1960n^{3} + 322n^{2} + 28n + 1) + 1219A^3b^3c^3n^3x^3(e*x)^m \\
& / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + \\
& 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + \\
& 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + \\
& 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + \\
& 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^{n+7} + 26136m^{n+6} + 39396m^{n+5} + \\
& 27076m^{n+4} + 9800m^{n+3} + 1932m^{n+2} + 196m^n + 8m + 5040n^{7} + 130 \\
& 68n^{6} + 13132n^{5} + 6769n^{4} + 1960n^{3} + 322n^{2} + 28n + 1) + 247A \\
& *b^3c^3n^2x^3(e*x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + \\
& 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + \\
& 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + \\
& 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + \\
& 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^{n+7} + 26136m^{n+6} + \\
& 39396m^{n+5} + 27076m^{n+4} + 9800m^{n+3} + 1932m^{n+2} + 196m^n + 8m + 5040n^{7} \\
& + 13068n^{6} + 13132n^{5} + 6769n^{4} + 1960n^{3} + 322n^{2} + 28n + 1) + 25A^3b^3c^3n^3x^3(e*x)^m \\
& / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + \\
& 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + \\
& 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + \\
& 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + \\
& 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^{n+7} + 26136m^{n+6} + 39396m^{n+5} + \\
& 27076m^{n+4} + 9800m^{n+3} + 1932m^{n+2} + 196m^n + 8m + 5040n^{7} + 13068n^{6} + 1
\end{aligned}$$

$$\begin{aligned}
& 3132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + A^3b^3c^3x^3x^* \\
& * (3n)(e^x)^{3m} / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 2 \\
& 8m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4 \\
& n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3 \\
& n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 5 \\
& 6m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n \\
& ^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^7n + 26136m^6n^6 + \\
& 39396m^5n^5 + 27076m^4n^4 + 9800m^3n^3 + 1932m^2n^2 + 196m^2n + 8m + 5 \\
& 040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n \\
& + 1) + 3A^3b^3c^2d^7x^4(e^x)^{4m} / (m^8 + 28m^7n + 8m^7 \\
& + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 \\
& + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + \\
& 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 \\
& + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 \\
& + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 \\
& + 5040m^7n + 26136m^6n^6 + 39396m^5n^5 + 27076m^4n^4 + 9800m^3n^3 \\
& + 1932m^2n^2 + 196m^2n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769 \\
& n^4 + 1960n^3 + 322n^2 + 28n + 1) + 72A^3b^3c^2d^6n^4x^4(e^x)^{4m} / (m^8 + 28m^7n + 8m^7 \\
& + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 \\
& + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 \\
& + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 \\
& + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 \\
& + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^7n + 26136m^6n^6 + 3939 \\
& 6m^5n^5 + 27076m^4n^4 + 9800m^3n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040n^7 \\
& + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + \\
& 1) + 21A^3b^3c^2d^6x^4(e^x)^{4m} / (m^8 + 28m^7n + 8m^7 + \\
& 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 5 \\
& 88m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 98 \\
& 0m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + \\
& 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + \\
& 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 \\
& + 5040m^7n + 26136m^6n^6 + 39396m^5n^5 + 27076m^4n^4 + 9800m^3n^3 + \\
& 1932m^2n^2 + 196m^2n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 \\
& + 1960n^3 + 322n^2 + 28n + 1) + 678A^3b^3c^2d^5n^2x^4(e^x)^{4m} / (m^8 + 28m^7n + 8m^7 \\
& + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 \\
& + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 \\
& + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 \\
& + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 \\
& + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^7n + 26136m^6n^6 + 393 \\
& 96m^5n^5 + 27076m^4n^4 + 9800m^3n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040 \\
& n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + \\
& 1) + 432A^3b^3c^2d^5n^2x^4(e^x)^{4m} / (m^8 + 28m^7n + 8m^7 \\
& + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2
\end{aligned}$$

$$\begin{aligned}
& + 588m^{5n} + 56m^{5n} + 6769m^{4n} + 9800m^{4n} + 4830m^{4n} \\
& + 980m^{4n} + 70m^{4n} + 13132m^{3n} + 27076m^{3n} + 19600m^{3n} \\
& + 6440m^{3n} + 980m^{3n} + 56m^{3n} + 13068m^{2n} + 39396m^{2n} \\
& + 40614m^{2n} + 19600m^{2n} + 4830m^{2n} + 588m^{2n} + 28m^{2n} \\
& + 5040m^{2n} + 26136m^{2n} + 39396m^{2n} + 27076m^{2n} + 9800m^{2n} \\
& + 1932m^{2n} + 196m^{2n} + 8m^{2n} + 5040m^{2n} + 13068m^{2n} + 13132m^{2n} + 676 \\
& + 9m^{2n} + 1960m^{2n} + 322m^{2n} + 28m^{2n} + 1) + 63A^3b^3c^2d^5m^{5n}x^{4n} \\
&) \cdot (e^x)^m / (m^{8n} + 28m^{7n} + 8m^{7n} + 322m^{6n} + 196m^{6n} + 28m^{6n} \\
& + 1960m^{5n} + 1932m^{5n} + 588m^{5n} + 56m^{5n} + 6769m^{4n} \\
& + 9800m^{4n} + 4830m^{4n} + 980m^{4n} + 70m^{4n} + 13132m^{3n} \\
& + 27076m^{3n} + 19600m^{3n} + 6440m^{3n} + 980m^{3n} + 56m^{3n} \\
& + 13068m^{2n} + 39396m^{2n} + 40614m^{2n} + 19600m^{2n} + 4830m^{2n} \\
& + 588m^{2n} + 28m^{2n} + 5040m^{2n} + 26136m^{2n} + 39396 \\
& m^{2n} + 27076m^{2n} + 9800m^{2n} + 1932m^{2n} + 196m^{2n} + 8m^{2n} + 5040m^{2n} \\
& + 13068m^{2n} + 13132m^{2n} + 6769m^{2n} + 1960m^{2n} + 322m^{2n} + 28m^{2n} + 1) \\
& + 3168A^3b^3c^2d^4m^{4n}x^{4n} \cdot (e^x)^m / (m^{8n} + 28m^{7n} + 8m^{7n} + 322m^{6n} \\
& + 196m^{6n} + 28m^{6n} + 1960m^{5n} + 1932m^{5n} + 588m^{5n} + 56m^{5n} + 6769m^{4n} \\
& + 9800m^{4n} + 4830m^{4n} + 980m^{4n} + 70m^{4n} + 13132m^{3n} \\
& + 27076m^{3n} + 19600m^{3n} + 6440m^{3n} + 980m^{3n} + 56m^{3n} + 13068m^{2n} \\
& + 39396m^{2n} + 40614m^{2n} + 19600m^{2n} + 4830m^{2n} + 588m^{2n} + 28m^{2n} \\
& + 5040m^{2n} + 26136m^{2n} + 39396m^{2n} + 27076m^{2n} + 9800m^{2n} \\
& + 1932m^{2n} + 196m^{2n} + 8m^{2n} + 5040m^{2n} + 13068m^{2n} + 13132m^{2n} + 6 \\
& + 769m^{2n} + 1960m^{2n} + 322m^{2n} + 28m^{2n} + 1) + 3390A^3b^3c^2d^4m^{4n}x^{4n} \\
& \cdot (e^x)^m / (m^{8n} + 28m^{7n} + 8m^{7n} + 322m^{6n} + 196m^{6n} + 28m^{6n} \\
& + 1960m^{5n} + 1932m^{5n} + 588m^{5n} + 56m^{5n} + 6769m^{4n} \\
& + 9800m^{4n} + 4830m^{4n} + 980m^{4n} + 70m^{4n} + 13132m^{3n} \\
& + 27076m^{3n} + 19600m^{3n} + 6440m^{3n} + 980m^{3n} + 56m^{3n} + 13068m^{2n} \\
& + 39396m^{2n} + 40614m^{2n} + 19600m^{2n} + 4830m^{2n} + 588m^{2n} + 28m^{2n} \\
& + 5040m^{2n} + 26136m^{2n} + 39396m^{2n} + 27076m^{2n} + 9800m^{2n} \\
& + 1932m^{2n} + 196m^{2n} + 8m^{2n} + 5040m^{2n} + 13068m^{2n} + 13132m^{2n} + 6 \\
& + 769m^{2n} + 1960m^{2n} + 322m^{2n} + 28m^{2n} + 1) + 1080A^3b^3c^2d^4m^{4n}x^{4n} \\
& \cdot (e^x)^m / (m^{8n} + 28m^{7n} + 8m^{7n} + 322m^{6n} + 196m^{6n} + 28m^{6n} \\
& + 1960m^{5n} + 1932m^{5n} + 588m^{5n} + 56m^{5n} + 6769m^{4n} \\
& + 9800m^{4n} + 4830m^{4n} + 980m^{4n} + 70m^{4n} + 13132m^{3n} \\
& + 27076m^{3n} + 19600m^{3n} + 6440m^{3n} + 980m^{3n} + 56m^{3n} + 13068m^{2n} \\
& + 39396m^{2n} + 40614m^{2n} + 19600m^{2n} + 4830m^{2n} + 588m^{2n} + 28m^{2n} \\
& + 5040m^{2n} + 26136m^{2n} + 39396m^{2n} + 27076m^{2n} + 9800m^{2n} \\
& + 1932m^{2n} + 196m^{2n} + 8m^{2n} + 5040m^{2n} + 13068m^{2n} + 13132m^{2n} + 6 \\
& + 769m^{2n} + 1960m^{2n} + 322m^{2n} + 28m^{2n} + 1) + 105A^3b^3c^2d^4m^{4n}x^{4n} \\
& \cdot (e^x)^m / (m^{8n} + 28m^{7n} + 8m^{7n} + 322m^{6n} + 196m^{6n} + 28m^{6n} \\
& + 1960m^{5n} + 1932m^{5n} + 588m^{5n} + 56m^{5n} + 6769m^{4n} \\
& + 9800m^{4n} + 4830m^{4n} + 980m^{4n} + 70m^{4n} + 13132m^{3n} \\
& + 27076m^{3n} + 19600m^{3n} + 6440m^{3n} + 980m^{3n}
\end{aligned}$$

$$\begin{aligned}
 & + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m \\
 & + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 7635A^3b^3c^2d^3n^4 \times x^{4n}(e^x)^m / (m^8 + 28m^7n + 8m^6n + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 12672A^3b^3c^2d^3n^3 \times x^{4n}(e^x)^m / (m^8 + 28m^7n + 8m^6n + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 6780A^3b^3c^2d^3n^2 \times x^{4n}(e^x)^m / (m^8 + 28m^7n + 8m^6n + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 1440A^3b^3c^2d^3n \times x^{4n}(e^x)^m / (m^8 + 28m^7n + 8m^6n + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 105A^3b^3c^2d^3n^3 \times x^{4n}(e^x)^m / (m^8 + 28m^7n + 8m^6n + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 105A^3b^3c^2d^3n^3 \times x^{4n}(e^x)^m / (m^8 + 28m^7n + 8m^6n + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1)
 \end{aligned}$$

$$\begin{aligned}
&*(4*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 2 \\
&8*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4 \\
&*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3 \\
&*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 5 \\
&6*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n \\
&>**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + \\
&39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5 \\
&040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28* \\
&n + 1) + 3780*A*b**3*c**2*d*m*n**6*x*x***(4*n)*(e*x)**m/(m**8 + 28*m**7*n + \\
&8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5* \\
&n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n \\
&>**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3 \\
&*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m** \\
&2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + \\
&28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m \\
&*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + \\
&6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 17712*A*b**3*c**2*d*m*n**5* \\
&x*x***(4*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n \\
&+ 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769* \\
&m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132* \\
&m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n \\
&+ 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m* \\
&>**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n** \\
&6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m \\
&+ 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + \\
&28*n + 1) + 22905*A*b**3*c**2*d*m*n**4*x*x***(4*n)*(e*x)**m/(m**8 + 28*m**7 \\
&*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932* \\
&m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m \\
&>**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600 \\
&*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 3939 \\
&6*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2 \\
&*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9 \\
&800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n \\
&>**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 12672*A*b**3*c**2*d*m* \\
&n**3*x*x***(4*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m \\
&>**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + \\
&6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 1 \\
&3132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m \\
&>**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 196 \\
&00*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136* \\
&m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n \\
&+ 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n \\
&>**2 + 28*n + 1) + 3390*A*b**3*c**2*d*m*n**2*x*x***(4*n)*(e*x)**m/(m**8 + 28* \\
&m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1 \\
&932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 48
\end{aligned}$$

$$\begin{aligned} & 30m^{4n+2} + 980m^{4n} + 70m^4 + 13132m^{3n+5} + 27076m^{3n+4} + 1 \\ & 9600m^{3n+3} + 6440m^{3n+2} + 980m^{3n} + 56m^3 + 13068m^{2n+6} + \\ & 39396m^{2n+5} + 40614m^{2n+4} + 19600m^{2n+3} + 4830m^{2n+2} + 588m^{2n} \\ & + 28m^2 + 5040m^{n+7} + 26136m^{n+6} + 39396m^{n+5} + 27076m^{n+4} \\ & + 9800m^{n+3} + 1932m^{n+2} + 196m^n + 8m + 5040n^7 + 13068n^6 + 131 \\ & 32n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 432Ab^3c^2d \\ & m^n x^{4n} (e^x)^m / (m^8 + 28m^{7n} + 8m^{7n} + 322m^{6n+2} + 196m^{6n} \\ & + 28m^{6n} + 1960m^{5n+3} + 1932m^{5n+2} + 588m^{5n} + 56m^{5n} + 6 \\ & 769m^{4n+4} + 9800m^{4n+3} + 4830m^{4n+2} + 980m^{4n} + 70m^4 + 13 \\ & 132m^{3n+5} + 27076m^{3n+4} + 19600m^{3n+3} + 6440m^{3n+2} + 980m^{3n} \\ & + 56m^3 + 13068m^{2n+6} + 39396m^{2n+5} + 40614m^{2n+4} + 1960 \\ & 0m^{2n+3} + 4830m^{2n+2} + 588m^{2n} + 28m^2 + 5040m^{n+7} + 26136m^{n+6} \\ & + 39396m^{n+5} + 27076m^{n+4} + 9800m^{n+3} + 1932m^{n+2} + 196m^n + \\ & 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 \\ & + 28n + 1) + 21Ab^3c^2d m^n x^{4n} (e^x)^m / (m^8 + 28m^{7n} + 8m^{7n} \\ & + 322m^{6n+2} + 196m^{6n} + 28m^{6n} + 1960m^{5n+3} + 1932m^{5n+2} \\ & + 588m^{5n} + 56m^{5n} + 6769m^{4n+4} + 9800m^{4n+3} + 4830m^{4n+2} \\ & + 980m^{4n} + 70m^4 + 13132m^{3n+5} + 27076m^{3n+4} + 19600m^{3n+3} \\ & + 6440m^{3n+2} + 980m^{3n} + 56m^3 + 13068m^{2n+6} + 39396m^{2n+5} \\ & + 40614m^{2n+4} + 19600m^{2n+3} + 4830m^{2n+2} + 588m^{2n} + 28m^2 \\ & + 5040m^{n+7} + 26136m^{n+6} + 39396m^{n+5} + 27076m^{n+4} + 9800m^{n+3} \\ & + 1932m^{n+2} + 196m^n + 8m + 5040n^7 + 13068n^6 + 13132n^5 \\ & + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 3780Ab^3c^2d n^6 x^{4n} \\ & x^{4n} (e^x)^m / (m^8 + 28m^{7n} + 8m^{7n} + 322m^{6n+2} + 196m^{6n} + \\ & 28m^{6n} + 1960m^{5n+3} + 1932m^{5n+2} + 588m^{5n} + 56m^{5n} + 6769m^{4n+4} \\ & + 9800m^{4n+3} + 4830m^{4n+2} + 980m^{4n} + 70m^4 + 13132m^{3n+5} \\ & + 27076m^{3n+4} + 19600m^{3n+3} + 6440m^{3n+2} + 980m^{3n} + 56m^3 \\ & + 13068m^{2n+6} + 39396m^{2n+5} + 40614m^{2n+4} + 19600m^{2n+3} \\ & + 4830m^{2n+2} + 588m^{2n} + 28m^2 + 5040m^{n+7} + 26136m^{n+6} \\ & + 39396m^{n+5} + 27076m^{n+4} + 9800m^{n+3} + 1932m^{n+2} + 196m^n + 8m + \\ & 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 2 \\ & 8n + 1) + 8856Ab^3c^2d n^5 x^{4n} (e^x)^m / (m^8 + 28m^{7n} + 8m^{7n} \\ & + 322m^{6n+2} + 196m^{6n} + 28m^{6n} + 1960m^{5n+3} + 1932m^{5n+2} \\ & + 588m^{5n} + 56m^{5n} + 6769m^{4n+4} + 9800m^{4n+3} + 4830m^{4n+2} \\ & + 980m^{4n} + 70m^4 + 13132m^{3n+5} + 27076m^{3n+4} + 19600m^{3n+3} \\ & + 6440m^{3n+2} + 980m^{3n} + 56m^3 + 13068m^{2n+6} + 39396m^{2n+5} \\ & + 40614m^{2n+4} + 19600m^{2n+3} + 4830m^{2n+2} + 588m^{2n} + 28m^2 \\ & + 5040m^{n+7} + 26136m^{n+6} + 39396m^{n+5} + 27076m^{n+4} + 9800m^{n+3} \\ & + 1932m^{n+2} + 196m^n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + \\ & 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 7635Ab^3c^2d n^4 x^{4n} \\ & x^{4n} (e^x)^m / (m^8 + 28m^{7n} + 8m^{7n} + 322m^{6n+2} + 196m^{6n} + \\ & 28m^{6n} + 1960m^{5n+3} + 1932m^{5n+2} + 588m^{5n} + 56m^{5n} + 6769m^{4n+4} \\ & + 9800m^{4n+3} + 4830m^{4n+2} + 980m^{4n} + 70m^4 + 13132m^{3n+5} \\ & + 27076m^{3n+4} + 19600m^{3n+3} + 6440m^{3n+2} + 980m^{3n} + 56m^3 \\ & + 13068m^{2n+6} + 39396m^{2n+5} + 40614m^{2n+4} + 19600m^{2n+3} \\ & + 4830m^{2n+2} + 588m^{2n} + 28m^2 + 5040m^{n+7} + 26136m^{n+6} + 39396m^{n+5} \\ & + 27076m^{n+4} + 9800m^{n+3} + 1932m^{n+2} + 196m^n + 8m + 5040n^7 \\ & + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) \end{aligned}$$

$$\begin{aligned}
& n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + \\
& 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + \\
& 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28 \\
& *n + 1) + 3168*A*b^{**3}*c^{**2}*d*n^{**3}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8 \\
& *m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n \\
& **2 + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n* \\
& **2 + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}* \\
& n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2} \\
& *n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 2 \\
& 8*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m* \\
& n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + \\
& 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 678*A*b^{**3}*c^{**2}*d*n^{**2}*x*x^{**} \\
& (4*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28 \\
& *m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}* \\
& n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}* \\
& n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56 \\
& *m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n* \\
& **3 + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 3 \\
& 9396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 50 \\
& 40*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n \\
& + 1) + 72*A*b^{**3}*c^{**2}*d*n*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + \\
& 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 5 \\
& 88*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 98 \\
& 0*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + \\
& 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + \\
& 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} \\
& + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + \\
& 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n* \\
& **4 + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 3*A*b^{**3}*c^{**2}*d*x*x^{**}(4*n)*(e*x)^{**m} \\
& /(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m \\
& **5*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m* \\
& **4*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m \\
& **3*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068* \\
& m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2} \\
& *n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + \\
& 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 1306 \\
& 8*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 3*A*b* \\
& **3*c*d^{**2}*m^{**7}*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n* \\
& **2 + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + \\
& 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 7 \\
& 0*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n* \\
& **2 + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}* \\
& n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**} \\
& 7 + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} \\
& + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n*
\end{aligned}$$

$$\begin{aligned}
& *3 + 322*n**2 + 28*n + 1) + 69*A*b**3*c*d**2*m**6*n*x*x**(5*n)*(e*x)**m/(m* \\
& *8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5* \\
& n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n \\
& **3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3* \\
& n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2 \\
& *n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n** \\
& 2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 2707 \\
& 6*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n* \\
& *6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 21*A*b**3* \\
& c*d**2*m**6*x*x**(5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 \\
& + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56* \\
& m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m \\
& **4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 \\
& + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n** \\
& 4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + \\
& 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 1 \\
& 96*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 \\
& + 322*n**2 + 28*n + 1) + 621*A*b**3*c*d**2*m**5*n**2*x*x**(5*n)*(e*x)**m/(m \\
& **8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5 \\
& *n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4* \\
& n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3 \\
& *n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m** \\
& 2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n* \\
& *2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 270 \\
& 76*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n \\
& **6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 414*A*b** \\
& 3*c*d**2*m**5*n*x*x**(5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n \\
& **2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + \\
& 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + \\
& 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n \\
& **2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2 \\
& *n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n* \\
& *7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 \\
& + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n \\
& **3 + 322*n**2 + 28*n + 1) + 63*A*b**3*c*d**2*m**5*x*x**(5*n)*(e*x)**m/(m** \\
& 8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n \\
& **3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n* \\
& *3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n \\
& **4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2* \\
& n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 \\
& + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076 \\
& *m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n** \\
& 6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 2775*A*b**3 \\
& *c*d**2*m**4*n**3*x*x**(5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6 \\
& *n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n
\end{aligned}$$

$$\begin{aligned}
& + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n \\
& + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 \\
& + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 \\
& + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^2n^7 \\
& + 26136m^2n^6 + 39396m^2n^5 + 27076m^2n^4 + 9800m^2n^3 + 1932m^2n^2 \\
& + 196m^2n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 \\
& + 322n^2 + 28n + 1) + 3105A^3B^3C^2D^2m^4n^2x^2y^2(5n)(ex)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^2n^7 + 26136m^2n^6 + 39396m^2n^5 + 27076m^2n^4 + 9800m^2n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 1035A^3B^3C^2D^2m^4n^2x^2y^2(5n)(ex)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^2n^7 + 26136m^2n^6 + 39396m^2n^5 + 27076m^2n^4 + 9800m^2n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 105A^3B^3C^2D^2m^4n^2x^2y^2(5n)(ex)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^2n^7 + 26136m^2n^6 + 39396m^2n^5 + 27076m^2n^4 + 9800m^2n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 6432A^3B^3C^2D^2m^3n^4x^2y^2(5n)(ex)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^2n^7 + 26136m^2n^6 + 39396m^2n^5 + 27076m^2n^4 + 9800m^2n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 11100A^3B^3C^2D^2m^3n^3x^2y^2(5n)(ex)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56
\end{aligned}$$

$m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 6210A^3b^3c^2d^2m^3n^2x^5(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 1380A^3b^3c^2d^2m^3n^2x^5(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 105A^3b^3c^2d^2m^3n^2x^5(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 7236A^3b^3c^2d^2m^2n^5x^5(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 19296A^3b^3c^2d^2m^2n^4x^5(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1)$

$$\begin{aligned}
& **4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + \\
& 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 16650*A*b**3*c* \\
& d**2*m**2*n**3*x*x**(5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n* \\
& *2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + \\
& 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 7 \\
& 0*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n* \\
& *2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2* \\
& n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n** \\
& 7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 \\
& + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n* \\
& *3 + 322*n**2 + 28*n + 1) + 6210*A*b**3*c*d**2*m**2*n**2*x*x**(5*n)*(e*x)** \\
& m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960* \\
& m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m \\
& **4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076* \\
& m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068 \\
& *m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m** \\
& 2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + \\
& 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 130 \\
& 68*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 1035* \\
& A*b**3*c*d**2*m**2*n*x*x**(5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m \\
& **6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m** \\
& 5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4 \\
& *n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m \\
& **3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614 \\
& *m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040 \\
& *m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m \\
& *n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1 \\
& 960*n**3 + 322*n**2 + 28*n + 1) + 63*A*b**3*c*d**2*m**2*x*x**(5*n)*(e*x)**m \\
& /(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m \\
& **5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m* \\
& *4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m \\
& **3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068* \\
& m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2 \\
& *n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + \\
& 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 1306 \\
& 8*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 3024*A \\
& *b**3*c*d**2*m*n**6*x*x**(5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m* \\
& *6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5 \\
& *n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4* \\
& n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m* \\
& *3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614* \\
& m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040* \\
& m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m* \\
& n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 19 \\
& 60*n**3 + 322*n**2 + 28*n + 1) + 14472*A*b**3*c*d**2*m*n**5*x*x**(5*n)*(e*x
\end{aligned}$$

$$\begin{aligned}
&)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 19 \\
& 60*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 980 \\
& 0*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 270 \\
& 76*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13 \\
& 068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830* \\
& m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n** \\
& 5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + \\
& 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 19 \\
& 296*A*b**3*c*d**2*m*n**4*x*x***(5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 3 \\
& 22*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588 \\
& *m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980* \\
& m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 64 \\
& 40*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 4 \\
& 0614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + \\
& 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 19 \\
& 32*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 \\
& + 1960*n**3 + 322*n**2 + 28*n + 1) + 11100*A*b**3*c*d**2*m*n**3*x*x***(5*n) \\
& *(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 \\
& + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 \\
& + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 \\
& + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 \\
& + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + \\
& 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396* \\
& m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n* \\
& **7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) \\
& + 3105*A*b**3*c*d**2*m*n**2*x*x***(5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 \\
& + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + \\
& 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + \\
& 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 \\
& + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 \\
& + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m** \\
& 2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 \\
& + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769* \\
& n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 414*A*b**3*c*d**2*m*n*x*x***(5*n)* \\
& (e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 \\
& + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + \\
& 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + \\
& 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 \\
& + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4 \\
& 830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m \\
& *n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n** \\
& 7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) \\
& + 21*A*b**3*c*d**2*m*x*x***(5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m \\
& **6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m** \\
& 5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4
\end{aligned}$$

$$\begin{aligned}
& *n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m \\
& **3*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614 \\
& *m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040 \\
& *m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m \\
& *n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1 \\
& 960*n^{**3} + 322*n^{**2} + 28*n + 1) + 3024*A*b^{**3}*c*d^{**2}*n^{**6}*x*x^{**}(5*n)*(e*x)* \\
& *m/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960 \\
& *m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800* \\
& m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076 \\
& *m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 1306 \\
& 8*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m* \\
& **2*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} \\
& + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13 \\
& 068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 7236 \\
& *A*b^{**3}*c*d^{**2}*n^{**5}*x*x^{**}(5*n)*(e*x)**m/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m* \\
& **6*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5} \\
& *n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}* \\
& n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m* \\
& **3*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614* \\
& m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040* \\
& m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n \\
& **2 + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 19 \\
& 60*n^{**3} + 322*n^{**2} + 28*n + 1) + 6432*A*b^{**3}*c*d^{**2}*n^{**4}*x*x^{**}(5*n)*(e*x)** \\
& m/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960* \\
& m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m \\
& **4*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076* \\
& m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068 \\
& *m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m** \\
& 2*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + \\
& 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 130 \\
& 68*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 2775* \\
& A*b^{**3}*c*d^{**2}*n^{**3}*x*x^{**}(5*n)*(e*x)**m/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m** \\
& 6*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}* \\
& n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n \\
& + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m** \\
& 3*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m \\
& **2*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m \\
& *n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n \\
& **2 + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 196 \\
& 0*n^{**3} + 322*n^{**2} + 28*n + 1) + 621*A*b^{**3}*c*d^{**2}*n^{**2}*x*x^{**}(5*n)*(e*x)**m/ \\
& (m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m* \\
& **5*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m** \\
& 4*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m* \\
& **3*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m \\
& **2*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*
\end{aligned}$$

$$\begin{aligned}
& n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 2 \\
& 7076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068 \\
& *n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 69*A*b* \\
& *3*c*d^{**2}*n*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} \\
& + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56* \\
& m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m \\
& **4 + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} \\
& + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**} \\
& 4 + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + \\
& 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 1 \\
& 96*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} \\
& + 322*n^{**2} + 28*n + 1) + 3*A*b^{**3}*c*d^{**2}*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**} \\
& 7*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932 \\
& *m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830* \\
& m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 1960 \\
& 0*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 393 \\
& 96*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**} \\
& 2*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + \\
& 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132* \\
& n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + A*b^{**3}*d^{**3}*m^{**7}*x*x* \\
& *(6*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 2 \\
& 8*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4} \\
& *n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3} \\
& *n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 5 \\
& 6*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n \\
& **3 + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + \\
& 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5 \\
& 040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28* \\
& n + 1) + 22*A*b^{**3}*d^{**3}*m^{**6}*n*x*x^{**}(6*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m \\
& *7 + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} \\
& + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} \\
& + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**} \\
& 3 + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n* \\
& *5 + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m \\
& **2 + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**} \\
& 3 + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 676 \\
& 9*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 7*A*b^{**3}*d^{**3}*m^{**6}*x*x^{**}(6*n)*(\\
& e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + \\
& 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + \\
& 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + \\
& 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + \\
& 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 48 \\
& 30*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m* \\
& n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} \\
& + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) +
\end{aligned}$$

$$\begin{aligned}
& 190*A*b^{**3}*d^{**3}*m^{**5}*n^{**2}*x*x^{**}(6*n)*(e*x)^{**}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + \\
& 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 5 \\
& 88*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 98 \\
& 0*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + \\
& 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + \\
& 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} \\
& + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + \\
& 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} \\
& + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 132*A*b^{**3}*d^{**3}*m^{**5}*n*x*x^{**}(6*n)*(\\
& e*x)^{**}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + \\
& 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + \\
& 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + \\
& 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + \\
& 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 48 \\
& 30*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m* \\
& n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} \\
& + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + \\
& 21*A*b^{**3}*d^{**3}*m^{**5}*x*x^{**}(6*n)*(e*x)^{**}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m \\
& ^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5} \\
& *n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4} \\
& *n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m \\
& ^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614 \\
& *m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040 \\
& *m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m \\
& *n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1 \\
& 960*n^{**3} + 322*n^{**2} + 28*n + 1) + 820*A*b^{**3}*d^{**3}*m^{**4}*n^{**3}*x*x^{**}(6*n)*(e*x \\
&)^{**}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 19 \\
& 60*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 980 \\
& 0*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 270 \\
& 76*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13 \\
& 068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830* \\
& m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} \\
& + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + \\
& 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 95 \\
& 0*A*b^{**3}*d^{**3}*m^{**4}*n^{**2}*x*x^{**}(6*n)*(e*x)^{**}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 32 \\
& 2*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588* \\
& m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m \\
& ^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 644 \\
& 0*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40 \\
& 614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5 \\
& 040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 193 \\
& 2*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} \\
& + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 330*A*b^{**3}*d^{**3}*m^{**4}*n*x*x^{**}(6*n)*(e*x \\
&)^{**}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 19 \\
& 60*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 980
\end{aligned}$$

$$\begin{aligned}
& 0*m^{4n^3} + 4830*m^{4n^2} + 980*m^{4n} + 70*m^4 + 13132*m^{3n^5} + 270 \\
& 76*m^{3n^4} + 19600*m^{3n^3} + 6440*m^{3n^2} + 980*m^{3n} + 56*m^3 + 13 \\
& 068*m^{2n^6} + 39396*m^{2n^5} + 40614*m^{2n^4} + 19600*m^{2n^3} + 4830* \\
& m^{2n^2} + 588*m^{2n} + 28*m^2 + 5040*m^{n^7} + 26136*m^{n^6} + 39396*m^{n^5} \\
& + 27076*m^{n^4} + 9800*m^{n^3} + 1932*m^{n^2} + 196*m^n + 8*m + 5040*n^{7} + \\
& 13068*n^6 + 13132*n^5 + 6769*n^4 + 1960*n^3 + 322*n^2 + 28*n + 1) + 35 \\
& *A*b^3*d^3*m^4*x*x^{(6n)}*(e^x)^m/(m^8 + 28*m^7*n + 8*m^7 + 322*m^6 \\
& *n^2 + 196*m^6*n + 28*m^6 + 1960*m^5*n^3 + 1932*m^5*n^2 + 588*m^5*n \\
& + 56*m^5 + 6769*m^4*n^4 + 9800*m^4*n^3 + 4830*m^4*n^2 + 980*m^4*n \\
& + 70*m^4 + 13132*m^3*n^5 + 27076*m^3*n^4 + 19600*m^3*n^3 + 6440*m^3 \\
& *n^2 + 980*m^3*n + 56*m^3 + 13068*m^2*n^6 + 39396*m^2*n^5 + 40614*m^ \\
& *2*n^4 + 19600*m^2*n^3 + 4830*m^2*n^2 + 588*m^2*n + 28*m^2 + 5040*m^ \\
& n^7 + 26136*m^n^6 + 39396*m^n^5 + 27076*m^n^4 + 9800*m^n^3 + 1932*m^n^ \\
& *2 + 196*m^n + 8*m + 5040*n^7 + 13068*n^6 + 13132*n^5 + 6769*n^4 + 1960 \\
& *n^3 + 322*n^2 + 28*n + 1) + 1849*A*b^3*d^3*m^3*n^4*x*x^{(6n)}*(e^x) \\
& *m/(m^8 + 28*m^7*n + 8*m^7 + 322*m^6*n^2 + 196*m^6*n + 28*m^6 + 1960 \\
& *m^5*n^3 + 1932*m^5*n^2 + 588*m^5*n + 56*m^5 + 6769*m^4*n^4 + 9800* \\
& m^4*n^3 + 4830*m^4*n^2 + 980*m^4*n + 70*m^4 + 13132*m^3*n^5 + 27076 \\
& *m^3*n^4 + 19600*m^3*n^3 + 6440*m^3*n^2 + 980*m^3*n + 56*m^3 + 1306 \\
& 8*m^{2n^6} + 39396*m^{2n^5} + 40614*m^{2n^4} + 19600*m^{2n^3} + 4830*m^ \\
& *2*n^2 + 588*m^{2n} + 28*m^2 + 5040*m^{n^7} + 26136*m^{n^6} + 39396*m^{n^5} \\
& + 27076*m^{n^4} + 9800*m^{n^3} + 1932*m^{n^2} + 196*m^n + 8*m + 5040*n^{7} + 13 \\
& 068*n^6 + 13132*n^5 + 6769*n^4 + 1960*n^3 + 322*n^2 + 28*n + 1) + 3280 \\
& *A*b^3*d^3*m^3*n^3*x*x^{(6n)}*(e^x)^m/(m^8 + 28*m^7*n + 8*m^7 + 322 \\
& *m^6*n^2 + 196*m^6*n + 28*m^6 + 1960*m^5*n^3 + 1932*m^5*n^2 + 588*m^ \\
& *5*n + 56*m^5 + 6769*m^4*n^4 + 9800*m^4*n^3 + 4830*m^4*n^2 + 980*m^ \\
& *4*n + 70*m^4 + 13132*m^3*n^5 + 27076*m^3*n^4 + 19600*m^3*n^3 + 6440 \\
& *m^3*n^2 + 980*m^3*n + 56*m^3 + 13068*m^2*n^6 + 39396*m^2*n^5 + 406 \\
& 14*m^{2n^4} + 19600*m^{2n^3} + 4830*m^{2n^2} + 588*m^{2n} + 28*m^2 + 50 \\
& 40*m^{n^7} + 26136*m^{n^6} + 39396*m^{n^5} + 27076*m^{n^4} + 9800*m^{n^3} + 1932 \\
& *m^{n^2} + 196*m^n + 8*m + 5040*n^7 + 13068*n^6 + 13132*n^5 + 6769*n^4 + \\
& 1960*n^3 + 322*n^2 + 28*n + 1) + 1900*A*b^3*d^3*m^3*n^2*x*x^{(6n)}*(\\
& e^x)^m/(m^8 + 28*m^7*n + 8*m^7 + 322*m^6*n^2 + 196*m^6*n + 28*m^6 + \\
& 1960*m^5*n^3 + 1932*m^5*n^2 + 588*m^5*n + 56*m^5 + 6769*m^4*n^4 + \\
& 9800*m^4*n^3 + 4830*m^4*n^2 + 980*m^4*n + 70*m^4 + 13132*m^3*n^5 + \\
& 27076*m^3*n^4 + 19600*m^3*n^3 + 6440*m^3*n^2 + 980*m^3*n + 56*m^3 + \\
& 13068*m^{2n^6} + 39396*m^{2n^5} + 40614*m^{2n^4} + 19600*m^{2n^3} + 48 \\
& 30*m^{2n^2} + 588*m^{2n} + 28*m^2 + 5040*m^{n^7} + 26136*m^{n^6} + 39396*m^ \\
& n^5 + 27076*m^{n^4} + 9800*m^{n^3} + 1932*m^{n^2} + 196*m^n + 8*m + 5040*n^7 \\
& + 13068*n^6 + 13132*n^5 + 6769*n^4 + 1960*n^3 + 322*n^2 + 28*n + 1) + \\
& 440*A*b^3*d^3*m^3*n*x*x^{(6n)}*(e^x)^m/(m^8 + 28*m^7*n + 8*m^7 + 32 \\
& 2*m^6*n^2 + 196*m^6*n + 28*m^6 + 1960*m^5*n^3 + 1932*m^5*n^2 + 588* \\
& m^5*n + 56*m^5 + 6769*m^4*n^4 + 9800*m^4*n^3 + 4830*m^4*n^2 + 980*m^ \\
& *4*n + 70*m^4 + 13132*m^3*n^5 + 27076*m^3*n^4 + 19600*m^3*n^3 + 644 \\
& 0*m^3*n^2 + 980*m^3*n + 56*m^3 + 13068*m^{2n^6} + 39396*m^{2n^5} + 40
\end{aligned}$$

$$\begin{aligned}
& 614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5 \\
& 040*m^{**n}*n^{**7} + 26136*m^{**n}*n^{**6} + 39396*m^{**n}*n^{**5} + 27076*m^{**n}*n^{**4} + 9800*m^{**n}*n^{**3} + 193 \\
& 2*m^{**n}*n^{**2} + 196*m^{**n} + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} \\
& + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 35*A*b^{**3}*d^{**3}*m^{**3}*x*x^{**}(6*n)*(e*x)** \\
& m/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960* \\
& m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m \\
& **4*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076* \\
& m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068 \\
& *m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{** \\
& 2*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m^{**n}*n^{**7} + 26136*m^{**n}*n^{**6} + 39396*m^{**n}*n^{**5} + \\
& 27076*m^{**n}*n^{**4} + 9800*m^{**n}*n^{**3} + 1932*m^{**n}*n^{**2} + 196*m^{**n} + 8*m + 5040*n^{**7} + 130 \\
& 68*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 2038* \\
& A*b^{**3}*d^{**3}*m^{**2}*n^{**5}*x*x^{**}(6*n)*(e*x)**m/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322* \\
& m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m* \\
& *5*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{** \\
& 4*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440* \\
& m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 4061 \\
& 4*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 504 \\
& 0*m^{**n}*n^{**7} + 26136*m^{**n}*n^{**6} + 39396*m^{**n}*n^{**5} + 27076*m^{**n}*n^{**4} + 9800*m^{**n}*n^{**3} + 1932* \\
& m^{**n}*n^{**2} + 196*m^{**n} + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + \\
& 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 5547*A*b^{**3}*d^{**3}*m^{**2}*n^{**4}*x*x^{**}(6*n)*(e \\
& *x)**m/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + \\
& 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9 \\
& 800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 2 \\
& 7076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + \\
& 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 483 \\
& 0*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m^{**n}*n^{**7} + 26136*m^{**n}*n^{**6} + 39396*m^{**n} \\
& **5 + 27076*m^{**n}*n^{**4} + 9800*m^{**n}*n^{**3} + 1932*m^{**n}*n^{**2} + 196*m^{**n} + 8*m + 5040*n^{**7} \\
& + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + \\
& 4920*A*b^{**3}*d^{**3}*m^{**2}*n^{**3}*x*x^{**}(6*n)*(e*x)**m/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + \\
& 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 5 \\
& 88*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 98 \\
& 0*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + \\
& 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + \\
& 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} \\
& + 5040*m^{**n}*n^{**7} + 26136*m^{**n}*n^{**6} + 39396*m^{**n}*n^{**5} + 27076*m^{**n}*n^{**4} + 9800*m^{**n}*n^{**3} + \\
& 1932*m^{**n}*n^{**2} + 196*m^{**n} + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{** \\
& *4 + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 1900*A*b^{**3}*d^{**3}*m^{**2}*n^{**2}*x*x^{**}(6* \\
& n)*(e*x)**m/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m* \\
& *6 + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{** \\
& 4 + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{** \\
& 5 + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m* \\
& *3 + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} \\
& + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m^{**n}*n^{**7} + 26136*m^{**n}*n^{**6} + 3939 \\
& 6*m^{**n}*n^{**5} + 27076*m^{**n}*n^{**4} + 9800*m^{**n}*n^{**3} + 1932*m^{**n}*n^{**2} + 196*m^{**n} + 8*m + 5040*
\end{aligned}$$

$$\begin{aligned}
& n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + \\
& 1) + 330*A*b^{**3}*d^{**3}*m^{**2}*n*x*x^{**}(6*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} \\
& + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + \\
& 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 9 \\
& 80*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + \\
& 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} \\
& + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} \\
& + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + \\
& 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n \\
& **4 + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 21*A*b^{**3}*d^{**3}*m^{**2}*n*x*x^{**}(6*n)*(e* \\
& x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1 \\
& 960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 98 \\
& 00*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27 \\
& 076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 1 \\
& 3068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830 \\
& *m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n \\
& **5 + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + \\
& 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 8 \\
& 40*A*b^{**3}*d^{**3}*m*n^{**6}*x*x^{**}(6*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322* \\
& m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m \\
& *5*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m \\
& 4*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440* \\
& m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 4061 \\
& 4*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 504 \\
& 0*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932* \\
& m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + \\
& 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 4076*A*b^{**3}*d^{**3}*m*n^{**5}*x*x^{**}(6*n)*(e*x) \\
& **m/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 196 \\
& 0*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800 \\
& *m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 2707 \\
& 6*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 130 \\
& 68*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m \\
& **2*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} \\
& + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 1 \\
& 3068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 554 \\
& 7*A*b^{**3}*d^{**3}*m*n^{**4}*x*x^{**}(6*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m \\
& **6*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m \\
& 5*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m \\
& 4*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m \\
& **3*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614 \\
& *m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040 \\
& *m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m \\
& *n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1 \\
& 960*n^{**3} + 322*n^{**2} + 28*n + 1) + 3280*A*b^{**3}*d^{**3}*m*n^{**3}*x*x^{**}(6*n)*(e*x)* \\
& *m/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960
\end{aligned}$$

$m^{5n^3} + 1932m^{5n^2} + 588m^{5n} + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^1n^7 + 26136m^1n^6 + 39396m^1n^5 + 27076m^1n^4 + 9800m^1n^3 + 1932m^1n^2 + 196m^1n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 950A^3b^3d^3m^{2n^3}x^{6n}(ex)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^1n^7 + 26136m^1n^6 + 39396m^1n^5 + 27076m^1n^4 + 9800m^1n^3 + 1932m^1n^2 + 196m^1n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 132A^3b^3d^3m^1n^3x^{6n}(ex)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^1n^7 + 26136m^1n^6 + 39396m^1n^5 + 27076m^1n^4 + 9800m^1n^3 + 1932m^1n^2 + 196m^1n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 7A^3b^3d^3m^1n^3x^{6n}(ex)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^1n^7 + 26136m^1n^6 + 39396m^1n^5 + 27076m^1n^4 + 9800m^1n^3 + 1932m^1n^2 + 196m^1n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 840A^3b^3d^3n^6x^{6n}(ex)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^1n^7 + 26136m^1n^6 + 39396m^1n^5 + 27076m^1n^4 + 9800m^1n^3 + 1932m^1n^2 + 196m^1n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 2038A^3b^3d^3n^5x^{6n}(ex)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n$

+ 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m*
 *2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**
 6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m
 + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 +
 28*n + 1) + 1849*A*b**3*d**3*n**4*x*x*(6*n)*(e*x)**m/(m**8 + 28*m**7*n +
 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*
 n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n
 2 + 980*m4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3
 *n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**
 2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n +
 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m
 *n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 +
 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 820*A*b**3*d**3*n**3*x*x*(
 6*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*
 m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n
 4 + 9800*m4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n
 5 + 27076*m3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*
 m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**
 3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39
 396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 504
 0*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n
 + 1) + 190*A*b**3*d**3*n**2*x*x*(6*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7
 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 +
 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 9
 80*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 +
 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5
 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2
 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 +
 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n
 4 + 1960*n3 + 322*n**2 + 28*n + 1) + 22*A*b**3*d**3*n*x*x*(6*n)*(e*x)*
 *m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960
 *m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*
 m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076
 *m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 1306
 8*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m*
 *2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5
 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13
 068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + A*b*
 *3*d**3*x*x*(6*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 19
 6*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5
 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4
 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 98
 0*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 +
 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 261
 36*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m

$$\begin{aligned}
& *n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 32 \\
& 2*n**2 + 28*n + 1) + B*a**3*c**3*m**7*x*x**n*(e*x)**m/(m**8 + 28*m**7*n + 8 \\
& *m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n \\
& **2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n* \\
& *2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3* \\
& n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2 \\
& *n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 2 \\
& 8*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m* \\
& n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + \\
& 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 27*B*a**3*c**3*m**6*n*x*x**n \\
& *(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 \\
& + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 \\
& + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 \\
& + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 \\
& + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + \\
& 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396* \\
& m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n* \\
& *7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) \\
& + 7*B*a**3*c**3*m**6*x*x**n*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6 \\
& *n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n \\
& + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n \\
& + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3 \\
& *n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m* \\
& *2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m* \\
& n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n* \\
& *2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960 \\
& *n**3 + 322*n**2 + 28*n + 1) + 295*B*a**3*c**3*m**5*n**2*x*x**n*(e*x)**m/(m \\
& **8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5 \\
& *n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4* \\
& n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3 \\
& *n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m** \\
& 2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n* \\
& *2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 270 \\
& 76*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n \\
& **6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 162*B*a** \\
& 3*c**3*m**5*n*x*x**n*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + \\
& 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m* \\
& *5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m** \\
& 4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + \\
& 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 \\
& + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 2 \\
& 6136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196 \\
& *m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + \\
& 322*n**2 + 28*n + 1) + 21*B*a**3*c**3*m**5*x*x**n*(e*x)**m/(m**8 + 28*m**7* \\
& n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m
\end{aligned}$$

$$\begin{aligned}
& **5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 1665*B*a**3*c**3*m**4*n**3*x*x**n*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 1475*B*a**3*c**3*m**4*n**2*x*x**n*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 405*B*a**3*c**3*m**4*n*x*x**n*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 35*B*a**3*c**3*m**4*x*x**n*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 5104*B*a**3*c**3*m**3*n**4*x*x**n*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 1306
\end{aligned}$$

$$\begin{aligned}
& 8m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} \\
& + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196m^{*n} + 8m + 5040n^{*n}n^{*7} + 13068n^{*n}n^{*6} + 13132n^{*n}n^{*5} + 6769n^{*n}n^{*4} + 1960n^{*n}n^{*3} + 322n^{*n}n^{*2} + 28n + 1) + 6660 \\
& *B^{*a}c^{*3}m^{*3}n^{*3}x^{*x}n^{*n}(e^{*x})^{*m}/(m^{*8} + 28m^{*7}n + 8m^{*7} + 322m^{*6}n^{*2} + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5}n \\
& + 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980m^{*3}n \\
& + 56m^{*3} + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} \\
& + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196m^{*n} + 8m + 5040n^{*n}n^{*7} + 13068n^{*n}n^{*6} + 13132n^{*n}n^{*5} + 6769n^{*n}n^{*4} + 1960n^{*n}n^{*3} + 322n^{*n}n^{*2} + 28n + 1) + 2950 \\
& *B^{*a}c^{*3}m^{*3}n^{*2}x^{*x}n^{*n}(e^{*x})^{*m}/(m^{*8} + 28m^{*7}n + 8m^{*7} + 322m^{*6}n^{*2} + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} \\
& + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} \\
& + 40614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196m^{*n} \\
& + 8m + 5040n^{*n}n^{*7} + 13068n^{*n}n^{*6} + 13132n^{*n}n^{*5} + 6769n^{*n}n^{*4} + 1960n^{*n}n^{*3} + 322n^{*n}n^{*2} + 28n + 1) + 540 *B^{*a}c^{*3}m^{*3}n^{*x}x^{*x}n^{*n}(e^{*x})^{*m}/(m^{*8} + 28m^{*7}n + 8m^{*7} + 322m^{*6}n^{*2} \\
& + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} \\
& + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + 26136m^{*n}n^{*6} \\
& + 39396m^{*n}n^{*5} + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196m^{*n} + 8m + 5040n^{*n}n^{*7} + 13068n^{*n}n^{*6} + 13132n^{*n}n^{*5} + 6769n^{*n}n^{*4} + 1960n^{*n}n^{*3} + 322n^{*n}n^{*2} + 28n + 1) + 35 \\
& *B^{*a}c^{*3}m^{*3}x^{*x}n^{*n}(e^{*x})^{*m}/(m^{*8} + 28m^{*7}n + 8m^{*7} + 322m^{*6}n^{*2} + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} \\
& + 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} \\
& + 588m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196m^{*n} + 8m + 5040n^{*n}n^{*7} + 13068n^{*n}n^{*6} + 13132n^{*n}n^{*5} \\
& + 6769n^{*n}n^{*4} + 1960n^{*n}n^{*3} + 322n^{*n}n^{*2} + 28n + 1) + 8028 *B^{*a}c^{*3}m^{*2}n^{*5}x^{*x}n^{*n}(e^{*x})^{*m}/(m^{*8} + 28m^{*7}n + 8m^{*7} + 322m^{*6}n^{*2} + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} \\
& + 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} \\
& + 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196m^{*n} + 8
\end{aligned}$$

$$\begin{aligned}
& *m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 \\
& + 28*n + 1) + 15312*B*a**3*c**3*m**2*n**4*x*x**n*(e*x)**m/(m**8 + 28*m**7* \\
& n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m \\
& **5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m \\
& **4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600* \\
& m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396 \\
& *m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2* \\
& n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 98 \\
& 00*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n* \\
& *5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 9990*B*a**3*c**3*m**2*n \\
& **3*x*x**n*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n \\
& + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769* \\
& m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132* \\
& m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n \\
& + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m \\
& *2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n** \\
& 6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m \\
& + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + \\
& 28*n + 1) + 2950*B*a**3*c**3*m**2*n**2*x*x**n*(e*x)**m/(m**8 + 28*m**7*n + \\
& 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5 \\
& *n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4* \\
& n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m** \\
& 3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m \\
& *2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + \\
& 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800* \\
& m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 \\
& + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 405*B*a**3*c**3*m**2*n*x*x \\
& **n*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m \\
& **6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n \\
& *4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n \\
& *5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m \\
& **3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 \\
& + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 393 \\
& 96*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040 \\
& *n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + \\
& 1) + 21*B*a**3*c**3*m**2*x*x**n*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322* \\
& m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m \\
& *5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m** \\
& 4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440* \\
& m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 4061 \\
& 4*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 504 \\
& 0*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932* \\
& m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + \\
& 1960*n**3 + 322*n**2 + 28*n + 1) + 5040*B*a**3*c**3*m*n**6*x*x**n*(e*x)**m/ \\
& (m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m*
\end{aligned}$$

$$\begin{aligned}
& *5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m** \\
& 4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m* \\
& *3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m \\
& **2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2* \\
& n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 2 \\
& 7076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068 \\
& *n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 16056*B \\
& *a**3*c**3*m*n**5*x*x**n*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n** \\
& 2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 5 \\
& 6*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70 \\
& *m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n** \\
& 2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n \\
& **4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 \\
& + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + \\
& 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n** \\
& 3 + 322*n**2 + 28*n + 1) + 15312*B*a**3*c**3*m*n**4*x*x**n*(e*x)**m/(m**8 + \\
& 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 \\
& + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 \\
& + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 \\
& + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n** \\
& 6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + \\
& 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m* \\
& n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + \\
& 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 6660*B*a**3*c* \\
& *3*m*n**3*x*x**n*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196* \\
& m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + \\
& 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + \\
& 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980* \\
& m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19 \\
& 600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136 \\
& *m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n \\
& + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322* \\
& n**2 + 28*n + 1) + 1475*B*a**3*c**3*m*n**2*x*x**n*(e*x)**m/(m**8 + 28*m**7* \\
& n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m \\
& **5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m* \\
& *4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600* \\
& m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396 \\
& *m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2* \\
& n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 98 \\
& 00*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n* \\
& *5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 162*B*a**3*c**3*m*n*x*x \\
& **n*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m \\
& **6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n* \\
& *4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n* \\
& *5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m
\end{aligned}$$

$$\begin{aligned}
& **3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 \\
& + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 393 \\
& 96*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040 \\
& *n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + \\
& 1) + 7*B*a**3*c**3*m*x*x**n*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6 \\
& *n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n \\
& + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n \\
& + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3 \\
& *n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m \\
& *2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m \\
& n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n \\
& *2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960 \\
& *n**3 + 322*n**2 + 28*n + 1) + 5040*B*a**3*c**3*n**6*x*x**n*(e*x)**m/(m**8 \\
& + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n** \\
& 3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 \\
& + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n** \\
& 4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n* \\
& *6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + \\
& 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m \\
& *n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 \\
& + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 8028*B*a**3*c \\
& **3*n**5*x*x**n*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m \\
& **6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + \\
& 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 1 \\
& 3132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m \\
& **3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 196 \\
& 00*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136* \\
& m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n \\
& + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n \\
& **2 + 28*n + 1) + 5104*B*a**3*c**3*n**4*x*x**n*(e*x)**m/(m**8 + 28*m**7*n + \\
& 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5 \\
& *n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4* \\
& n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m** \\
& 3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m \\
& *2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + \\
& 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800* \\
& m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 \\
& + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 1665*B*a**3*c**3*n**3*x*x \\
& *n*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m \\
& *6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n** \\
& 4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n** \\
& 5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m \\
& *3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 \\
& + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 3939 \\
& 6*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*
\end{aligned}$$

$$\begin{aligned}
& m^{5n} + 56m^{5n} + 6769m^{4n} + 9800m^{4n} + 4830m^{4n} + 980m^{4n} \\
& m^{4n} + 70m^{4n} + 13132m^{3n} + 27076m^{3n} + 19600m^{3n} + 6440m^{3n} \\
& m^{3n} + 980m^{3n} + 56m^{3n} + 13068m^{2n} + 39396m^{2n} + 40614m^{2n} \\
& m^{2n} + 19600m^{2n} + 4830m^{2n} + 588m^{2n} + 28m^{2n} + 5040m^{2n} \\
& m^{2n} + 26136m^{2n} + 39396m^{2n} + 27076m^{2n} + 9800m^{2n} + 1932m^{2n} \\
& m^{2n} + 196m^{2n} + 8m^{2n} + 5040m^{2n} + 13068m^{2n} + 13132m^{2n} + 6769m^{2n} \\
& + 1960m^{2n} + 322m^{2n} + 28m^{2n} + 1) + 810B^3c^2d^5m^{5n}x^{2n}(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^{2n} + 26136m^{2n} + 39396m^{2n} + 27076m^{2n} + 9800m^{2n} + 1932m^{2n} + 196m^{2n} + 8m^{2n} + 5040m^{2n} + 13068m^{2n} + 13132m^{2n} + 6769m^{2n} + 1960m^{2n} + 322m^{2n} + 28m^{2n} + 1) + 468B^3c^2d^5m^{5n}x^{2n}(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^{2n} + 26136m^{2n} + 39396m^{2n} + 27076m^{2n} + 9800m^{2n} + 1932m^{2n} + 196m^{2n} + 8m^{2n} + 5040m^{2n} + 13068m^{2n} + 13132m^{2n} + 6769m^{2n} + 1960m^{2n} + 322m^{2n} + 28m^{2n} + 1) + 63B^3c^2d^5m^{5n}x^{2n}(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^{2n} + 26136m^{2n} + 39396m^{2n} + 27076m^{2n} + 9800m^{2n} + 1932m^{2n} + 196m^{2n} + 8m^{2n} + 5040m^{2n} + 13068m^{2n} + 13132m^{2n} + 6769m^{2n} + 1960m^{2n} + 322m^{2n} + 28m^{2n} + 1) + 4260B^3c^2d^4m^{4n}x^{3n}(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^{2n} + 26136m^{2n} + 39396m^{2n} + 27076m^{2n} + 9800m^{2n} + 1932m^{2n} + 196m^{2n} + 8m^{2n} + 5040m^{2n} + 13068m^{2n} + 13132m^{2n} + 6769m^{2n} + 1960m^{2n} + 322m^{2n} + 28m^{2n} + 1) + 4050B^3c^2d^4m^{4n}x^{2n}(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n +
\end{aligned}$$

$$\begin{aligned}
& 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 \\
& + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 2 \\
& 8n + 1) + 1170B^3c^2d^4n^2x^2(e^x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 105B^3c^2d^4x^2(e^x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 11787B^3c^2d^3n^4x^2(e^x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 17040B^3c^2d^3n^3x^2(e^x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 9800m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 8100B^3c^2d^3n^2x^2(e^x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076
\end{aligned}$$

$m^n + 980m^{n-1} + 1932m^{n-2} + 196m^{n-3} + 8m^{n-4} + 5040m^{n-5} + 13068m^{n-6} + 13132m^{n-7} + 6769m^{n-8} + 1960m^{n-9} + 322m^{n-10} + 28m^{n-11} + 1) + 1560B_a^{*3}c^{*2}d^{*3}m^{*3}n^{*x}x^{*2}(2n)(e^x)^m / (m^{*8} + 28m^{*7}n + 8m^{*7} + 322m^{*6}n^{*2} + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*1}n^{*7} + 26136m^{*1}n^{*6} + 39396m^{*1}n^{*5} + 27076m^{*1}n^{*4} + 9800m^{*1}n^{*3} + 1932m^{*1}n^{*2} + 196m^{*1}n + 8m + 5040n^{*7} + 13068n^{*6} + 13132n^{*5} + 6769n^{*4} + 1960n^{*3} + 322n^{*2} + 28n + 1) + 105B_a^{*3}c^{*2}d^{*3}m^{*3}n^{*x}x^{*2}(2n)(e^x)^m / (m^{*8} + 28m^{*7}n + 8m^{*7} + 322m^{*6}n^{*2} + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*1}n^{*7} + 26136m^{*1}n^{*6} + 39396m^{*1}n^{*5} + 27076m^{*1}n^{*4} + 9800m^{*1}n^{*3} + 1932m^{*1}n^{*2} + 196m^{*1}n + 8m + 5040n^{*7} + 13068n^{*6} + 13132n^{*5} + 6769n^{*4} + 1960n^{*3} + 322n^{*2} + 28n + 1) + 35361B_a^{*3}c^{*2}d^{*2}m^{*2}n^{*4}x^{*x}x^{*2}(2n)(e^x)^m / (m^{*8} + 28m^{*7}n + 8m^{*7} + 322m^{*6}n^{*2} + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*1}n^{*7} + 26136m^{*1}n^{*6} + 39396m^{*1}n^{*5} + 27076m^{*1}n^{*4} + 9800m^{*1}n^{*3} + 1932m^{*1}n^{*2} + 196m^{*1}n + 8m + 5040n^{*7} + 13068n^{*6} + 13132n^{*5} + 6769n^{*4} + 1960n^{*3} + 322n^{*2} + 28n + 1) + 25560B_a^{*3}c^{*2}d^{*2}m^{*2}n^{*3}x^{*x}x^{*2}(2n)(e^x)^m / (m^{*8} + 28m^{*7}n + 8m^{*7} + 322m^{*6}n^{*2} + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*1}n^{*7} + 26136m^{*1}n^{*6} + 39396m^{*1}n^{*5} + 27076m^{*1}n^{*4} + 9800m^{*1}n^{*3} + 1932m^{*1}n^{*2} + 196m^{*1}n + 8m + 5040n^{*7} + 13068n^{*6} + 13132n^{*5} + 6769n^{*4} + 1960n^{*3} + 322n^{*2} + 28n + 1) + 8100B_a^{*3}c^{*2}d^{*2}m^{*2}n^{*2}x^{*x}$

$$\begin{aligned}
& \frac{(2n)(e^x)^m}{(m^8 + 28m^7n + 8m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^2n^7 + 26136m^2n^6 + 39396m^2n^5 + 27076m^2n^4 + 9800m^2n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1)} \\
& + \frac{1170B^3c^2d^2m^2n^2x^2(e^x)^m}{(m^8 + 28m^7n + 8m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^2n^7 + 26136m^2n^6 + 39396m^2n^5 + 27076m^2n^4 + 9800m^2n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1)} \\
& + \frac{63B^3c^2d^2m^2x^2(e^x)^m}{(m^8 + 28m^7n + 8m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^2n^7 + 26136m^2n^6 + 39396m^2n^5 + 27076m^2n^4 + 9800m^2n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1)} \\
& + \frac{7560B^3c^2d^2m^6n^6x^2(e^x)^m}{(m^8 + 28m^7n + 8m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^2n^7 + 26136m^2n^6 + 39396m^2n^5 + 27076m^2n^4 + 9800m^2n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1)} \\
& + \frac{31644B^3c^2d^2m^5n^5x^2(e^x)^m}{(m^8 + 28m^7n + 8m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^2n^7 + 26136m^2n^6 + 39396m^2n^5 + 27076m^2n^4 + 9800m^2n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1)} \\
& + \frac{35361B^3c^2d^2m^4n^4x^2(e^x)^m}{(m^8 + 28m^7n + 8m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^2n^7 + 26136m^2n^6 + 39396m^2n^5 + 27076m^2n^4 + 9800m^2n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1)}
\end{aligned}$$

$$\begin{aligned}
& **4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600 \\
& *m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 3939 \\
& 6*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2 \\
& *n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9 \\
& 800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n \\
& **5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 17040*B*a**3*c**2*d*m \\
& n**3*x*x*(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m \\
& **6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + \\
& 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 1 \\
& 3132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m \\
& **3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 196 \\
& 00*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136* \\
& m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n \\
& + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n \\
& **2 + 28*n + 1) + 4050*B*a**3*c**2*d*m*n**2*x*x*(2*n)*(e*x)**m/(m**8 + 28* \\
& m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1 \\
& 932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 48 \\
& 30*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 1 \\
& 9600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + \\
& 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588* \\
& m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 \\
& + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 131 \\
& 32*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 468*B*a**3*c**2*d* \\
& m*n*x*x*(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m \\
& **6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6 \\
& 769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13 \\
& 132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m \\
& **3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 1960 \\
& 0*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m \\
& *n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + \\
& 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n* \\
& **2 + 28*n + 1) + 21*B*a**3*c**2*d*m*x*x*(2*n)*(e*x)**m/(m**8 + 28*m**7*n + \\
& 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5 \\
& *n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4* \\
& n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m** \\
& 3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m \\
& **2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + \\
& 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800* \\
& m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 \\
& + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 7560*B*a**3*c**2*d*n**6*x \\
& x*(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + \\
& 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m \\
& **4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m \\
& **3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + \\
& 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2
\end{aligned}$$

$$\begin{aligned}
& *n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} \\
& + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + \\
& 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 2 \\
& 8*n + 1) + 15822*B*a^{**3}*c^{**2}*d*n^{**5}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + \\
& 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5} \\
& *n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}* \\
& n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3} \\
& *n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2} \\
& *n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + \\
& 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800* \\
& m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} \\
& + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 11787*B*a^{**3}*c^{**2}*d*n^{**4}*x \\
& *x^{**}(2*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n \\
& + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m \\
& **4*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m \\
& **3*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n \\
& + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2} \\
& *n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} \\
& + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m \\
& + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + \\
& 28*n + 1) + 4260*B*a^{**3}*c^{**2}*d*n^{**3}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + \\
& 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5} \\
& *n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}* \\
& n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3} \\
& *n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2} \\
& *n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + \\
& 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800* \\
& m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} \\
& + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 810*B*a^{**3}*c^{**2}*d*n^{**2}*x*x \\
& ***(2*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + \\
& 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4} \\
& *n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3} \\
& *n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + \\
& 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2} \\
& *n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + \\
& 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + \\
& 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28 \\
& *n + 1) + 78*B*a^{**3}*c^{**2}*d*n*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} \\
& + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + \\
& 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + \\
& 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} \\
& + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} \\
& + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} \\
& + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} \\
& + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*
\end{aligned}$$

$$\begin{aligned}
& n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 3*B*a^{**3}*c^{**2}*d*x*x^{**}(2*n)*(e*x)* \\
& *m/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960 \\
& *m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800* \\
& m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076 \\
& *m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 1306 \\
& 8*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m \\
& *2*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} \\
& + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13 \\
& 068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 3*B* \\
& a^{**3}*c*d^{**2}*m^{**7}*x*x^{**}(3*n)*(e*x)**m/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}* \\
& n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n \\
& + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + \\
& 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}* \\
& n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{** \\
& 2*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n \\
& **7 + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{** \\
& 2 + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960* \\
& n^{**3} + 322*n^{**2} + 28*n + 1) + 75*B*a^{**3}*c*d^{**2}*m^{**6}*n*x*x^{**}(3*n)*(e*x)**m/(\\
& m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{** \\
& 5*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4} \\
& *n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{** \\
& 3*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m \\
& *2*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n \\
& **2 + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27 \\
& 076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068* \\
& n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 21*B*a^{** \\
& 3}*c*d^{**2}*m^{**6}*x*x^{**}(3*n)*(e*x)**m/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{** \\
& 2 + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 5 \\
& 6*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70 \\
& *m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{** \\
& 2 + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n \\
& **4 + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} \\
& + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + \\
& 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{** \\
& 3 + 322*n^{**2} + 28*n + 1) + 741*B*a^{**3}*c*d^{**2}*m^{**5}*n^{**2}*x*x^{**}(3*n)*(e*x)**m/ \\
& (m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m \\
& *5*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{** \\
& 4*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m \\
& *3*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m \\
& **2*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}* \\
& n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 2 \\
& 7076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068 \\
& *n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 450*B*a \\
& **3}*c*d^{**2}*m^{**5}*n*x*x^{**}(3*n)*(e*x)**m/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6} \\
& *n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n
\end{aligned}$$

$$\begin{aligned}
& + 56m^5 + 6769m^4n + 9800m^4n^2 + 4830m^4n^3 + 4830m^4n^2 + 980m^4n \\
& + 70m^4 + 13132m^3n^2 + 27076m^3n^3 + 19600m^3n^4 + 6440m^3n^5 \\
& + 980m^3n^6 + 56m^3 + 13068m^2n^2 + 39396m^2n^3 + 40614m^2n^4 \\
& + 19600m^2n^5 + 4830m^2n^6 + 588m^2n^7 + 28m^2 + 5040m^2n \\
& + 26136m^2n^2 + 39396m^2n^3 + 27076m^2n^4 + 9800m^2n^5 + 1932m^2n^6 \\
& + 196m^2n^7 + 8m + 5040m^2n^7 + 13068m^2n^6 + 13132m^2n^5 + 6769m^2n^4 + 1960 \\
& + 322m^2n^3 + 28m^2n^2 + 28m^2n + 1) + 63B^3c^2d^2m^5x^3(3n)(ex)^m/(m \\
& + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 \\
& + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 \\
& + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 \\
& + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 \\
& + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n \\
& + 28m^2 + 5040m^2n^7 + 26136m^2n^6 + 39396m^2n^5 + 270 \\
& + 76m^2n^4 + 9800m^2n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040m^2n^7 + 13068m^2 \\
& + 13132m^2n^6 + 6769m^2n^5 + 1960m^2n^4 + 322m^2n^3 + 28m^2n + 1) + 3657B^3c^2d^2m^4n^3x^3(3n)(ex)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^2n^7 + 26136m^2n^6 + 39396m^2n^5 + 27076m^2n^4 + 9800m^2n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040m^2n^7 + 13068m^2n^6 + 13132m^2n^5 + 6769m^2n^4 + 1960m^2n^3 + 322m^2n^2 + 28m^2n + 1) + 3705B^3c^2d^2m^4n^2x^3(3n)(ex)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^2n^7 + 26136m^2n^6 + 39396m^2n^5 + 27076m^2n^4 + 9800m^2n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040m^2n^7 + 13068m^2n^6 + 13132m^2n^5 + 6769m^2n^4 + 1960m^2n^3 + 322m^2n^2 + 28m^2n + 1) + 1125B^3c^2d^2m^4n^2x^3(3n)(ex)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^2n^7 + 26136m^2n^6 + 39396m^2n^5 + 27076m^2n^4 + 9800m^2n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040m^2n^7 + 13068m^2n^6 + 13132m^2n^5 + 6769m^2n^4 + 1960m^2n^3 + 322m^2n^2 + 28m^2n + 1) + 105B^3c^2d^2m^4n^2x^3(3n)(ex)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 +
\end{aligned}$$

$00*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n*$
 $*5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 11388*B*a**3*c*d**2*m**$
 $2*n**5*x*x**(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196$
 $*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5$
 $+ 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 +$
 $13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980$
 $*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 1$
 $9600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 2613$
 $6*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*$
 $n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322$
 $*n**2 + 28*n + 1) + 28008*B*a**3*c*d**2*m**2*n**4*x*x**(3*n)*(e*x)**m/(m**8$
 $+ 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n*$
 $*3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**$
 $3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n*$
 $**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n$
 $**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2$
 $+ 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*$
 $m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6$
 $+ 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 21942*B*a**3$
 $*c*d**2*m**2*n**3*x*x**(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6$
 $*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n$
 $+ 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n$
 $+ 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3$
 $*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m*$
 $*2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*$
 $n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n*$
 $*2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960$
 $*n**3 + 322*n**2 + 28*n + 1) + 7410*B*a**3*c*d**2*m**2*n**2*x*x**(3*n)*(e*x$
 $)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 19$
 $60*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 980$
 $0*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 270$
 $76*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13$
 $068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*$
 $m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**$
 $5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 +$
 $13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 11$
 $25*B*a**3*c*d**2*m**2*n*x*x**(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 32$
 $2*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*$
 $m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m$
 $**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 644$
 $0*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40$
 $614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5$
 $040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 193$
 $2*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4$
 $+ 1960*n**3 + 322*n**2 + 28*n + 1) + 63*B*a**3*c*d**2*m**2*x*x**(3*n)*(e*x)$

$$\begin{aligned}
& **m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 196 \\
& 0*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800 \\
& *m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 2707 \\
& 6*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 130 \\
& 68*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m \\
& **2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 \\
& + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 1 \\
& 3068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 504 \\
& 0*B*a**3*c*d**2*m*n**6*x*x**(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322 \\
& *m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m \\
& **5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m* \\
& **4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440 \\
& *m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 406 \\
& 14*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 50 \\
& 40*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932 \\
& *m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + \\
& 1960*n**3 + 322*n**2 + 28*n + 1) + 22776*B*a**3*c*d**2*m*n**5*x*x**(3*n)*(\\
& e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + \\
& 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + \\
& 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + \\
& 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + \\
& 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 48 \\
& 30*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m* \\
& n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 \\
& + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + \\
& 28008*B*a**3*c*d**2*m*n**4*x*x**(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 \\
& + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + \\
& 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 9 \\
& 80*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + \\
& 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 \\
& + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 \\
& + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + \\
& 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n \\
& **4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 14628*B*a**3*c*d**2*m*n**3*x*x**(3 \\
& *n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m \\
& **6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n* \\
& **4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n* \\
& **5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m \\
& **3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 \\
& + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 393 \\
& 96*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040 \\
& *n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + \\
& 1) + 3705*B*a**3*c*d**2*m*n**2*x*x**(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m \\
& **7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n** \\
& 2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2
\end{aligned}$$

$+ 980m^{4n} + 70m^4 + 13132m^{3n+5} + 27076m^{3n+4} + 19600m^{3n+3}$
 $+ 6440m^{3n+2} + 980m^{3n} + 56m^3 + 13068m^{2n+6} + 39396m^{2n+5}$
 $+ 40614m^{2n+4} + 19600m^{2n+3} + 4830m^{2n+2} + 588m^{2n} + 28m^2$
 $+ 5040m^{n+7} + 26136m^{n+6} + 39396m^{n+5} + 27076m^{n+4} + 9800m^{n+3}$
 $+ 1932m^{n+2} + 196m^n + 8m + 5040n^{7} + 13068n^{6} + 13132n^{5} + 67$
 $69n^{4} + 1960n^{3} + 322n^{2} + 28n + 1) + 450B^3cd^2m^nx^{3n}(e^x)^m$
 $/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6$
 $+ 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4$
 $+ 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5$
 $+ 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3$
 $+ 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3$
 $+ 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^{n+7} + 26136m^{n+6} + 3939$
 $6m^{n+5} + 27076m^{n+4} + 9800m^{n+3} + 1932m^{n+2} + 196m^n + 8m + 5040n^{7}$
 $+ 13068n^{6} + 13132n^{5} + 6769n^{4} + 1960n^{3} + 322n^{2} + 28n +$
 $1) + 21B^3cd^2m^nx^{3n}(e^x)^m/(m^8 + 28m^7n + 8m^7 + 32$
 $2m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n$
 $+ 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n$
 $+ 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 644$
 $0m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40$
 $614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5$
 $040m^{n+7} + 26136m^{n+6} + 39396m^{n+5} + 27076m^{n+4} + 9800m^{n+3} + 193$
 $2m^{n+2} + 196m^n + 8m + 5040n^{7} + 13068n^{6} + 13132n^{5} + 6769n^{4}$
 $+ 1960n^{3} + 322n^{2} + 28n + 1) + 5040B^3cd^2n^6x^{3n}(e^x)^m$
 $/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1$
 $960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 98$
 $00m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27$
 $076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 1$
 $3068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830$
 $m^2n^2 + 588m^2n + 28m^2 + 5040m^{n+7} + 26136m^{n+6} + 39396m^{n+5}$
 $+ 27076m^{n+4} + 9800m^{n+3} + 1932m^{n+2} + 196m^n + 8m + 5040n^{7} +$
 $13068n^{6} + 13132n^{5} + 6769n^{4} + 1960n^{3} + 322n^{2} + 28n + 1) + 1$
 $1388B^3cd^2n^5x^{3n}(e^x)^m/(m^8 + 28m^7n + 8m^7 + 32$
 $2m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n$
 $+ 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n$
 $+ 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 644$
 $0m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40$
 $614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5$
 $040m^{n+7} + 26136m^{n+6} + 39396m^{n+5} + 27076m^{n+4} + 9800m^{n+3} + 193$
 $2m^{n+2} + 196m^n + 8m + 5040n^{7} + 13068n^{6} + 13132n^{5} + 6769n^{4}$
 $+ 1960n^{3} + 322n^{2} + 28n + 1) + 9336B^3cd^2n^4x^{3n}(e^x)^m$
 $/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1$
 $960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 98$
 $00m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27$
 $076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 1$
 $3068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830$

$m^{2n^2} + 588m^{2n} + 28m^2 + 5040m^n + 26136m^{n^6} + 39396m^{n^5} + 27076m^{n^4} + 9800m^{n^3} + 1932m^{n^2} + 196m^n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 3$
 $657B^3cd^2n^3x^3(3n)(e^x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^n + 26136m^{n^6} + 39396m^{n^5} + 27076m^{n^4} + 9800m^{n^3} + 1932m^{n^2} + 196m^n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 741B^3cd^2n^2x^3(3n)(e^x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^n + 26136m^{n^6} + 39396m^{n^5} + 27076m^{n^4} + 9800m^{n^3} + 1932m^{n^2} + 196m^n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 75B^3cd^2n^2x^3(3n)(e^x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^n + 26136m^{n^6} + 39396m^{n^5} + 27076m^{n^4} + 9800m^{n^3} + 1932m^{n^2} + 196m^n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 3B^3cd^2x^3(3n)(e^x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^n + 26136m^{n^6} + 39396m^{n^5} + 27076m^{n^4} + 9800m^{n^3} + 1932m^{n^2} + 196m^n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + B^3d^3m^7x^3(4n)(e^x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^n + 26136m^{n^6} + 39396m^{n^5} + 27076m^{n^4} + 9800m^{n^3} + 1932m^{n^2} + 196m^n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 +$

$$\begin{aligned}
& 28^n + 1) + 24B a^3 d^3 m^6 n^x x^x (4n) (e^x)^m / (m^8 + 28m^7 n + 8m^7 + 322m^6 n^2 + 196m^6 n + 28m^6 + 1960m^5 n^3 + 1932m^5 n^2 + 588m^5 n + 56m^5 + 6769m^4 n^4 + 9800m^4 n^3 + 4830m^4 n^2 + 980m^4 n + 70m^4 + 13132m^3 n^5 + 27076m^3 n^4 + 19600m^3 n^3 + 6440m^3 n^2 + 980m^3 n + 56m^3 + 13068m^2 n^6 + 39396m^2 n^5 + 40614m^2 n^4 + 19600m^2 n^3 + 4830m^2 n^2 + 588m^2 n + 28m^2 + 5040m n^7 + 26136m n^6 + 39396m n^5 + 27076m n^4 + 9800m n^3 + 1932m n^2 + 196m n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 7B a^3 d^3 m^6 n^x x^x (4n) (e^x)^m / (m^8 + 28m^7 n + 8m^7 + 322m^6 n^2 + 196m^6 n + 28m^6 + 1960m^5 n^3 + 1932m^5 n^2 + 588m^5 n + 56m^5 + 6769m^4 n^4 + 9800m^4 n^3 + 4830m^4 n^2 + 980m^4 n + 70m^4 + 13132m^3 n^5 + 27076m^3 n^4 + 19600m^3 n^3 + 6440m^3 n^2 + 980m^3 n + 56m^3 + 13068m^2 n^6 + 39396m^2 n^5 + 40614m^2 n^4 + 19600m^2 n^3 + 4830m^2 n^2 + 588m^2 n + 28m^2 + 5040m n^7 + 26136m n^6 + 39396m n^5 + 27076m n^4 + 9800m n^3 + 1932m n^2 + 196m n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 226B a^3 d^3 m^5 n^2 x^x x^x (4n) (e^x)^m / (m^8 + 28m^7 n + 8m^7 + 322m^6 n^2 + 196m^6 n + 28m^6 + 1960m^5 n^3 + 1932m^5 n^2 + 588m^5 n + 56m^5 + 6769m^4 n^4 + 9800m^4 n^3 + 4830m^4 n^2 + 980m^4 n + 70m^4 + 13132m^3 n^5 + 27076m^3 n^4 + 19600m^3 n^3 + 6440m^3 n^2 + 980m^3 n + 56m^3 + 13068m^2 n^6 + 39396m^2 n^5 + 40614m^2 n^4 + 19600m^2 n^3 + 4830m^2 n^2 + 588m^2 n + 28m^2 + 5040m n^7 + 26136m n^6 + 39396m n^5 + 27076m n^4 + 9800m n^3 + 1932m n^2 + 196m n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 144B a^3 d^3 m^5 n^x x^x (4n) (e^x)^m / (m^8 + 28m^7 n + 8m^7 + 322m^6 n^2 + 196m^6 n + 28m^6 + 1960m^5 n^3 + 1932m^5 n^2 + 588m^5 n + 56m^5 + 6769m^4 n^4 + 9800m^4 n^3 + 4830m^4 n^2 + 980m^4 n + 70m^4 + 13132m^3 n^5 + 27076m^3 n^4 + 19600m^3 n^3 + 6440m^3 n^2 + 980m^3 n + 56m^3 + 13068m^2 n^6 + 39396m^2 n^5 + 40614m^2 n^4 + 19600m^2 n^3 + 4830m^2 n^2 + 588m^2 n + 28m^2 + 5040m n^7 + 26136m n^6 + 39396m n^5 + 27076m n^4 + 9800m n^3 + 1932m n^2 + 196m n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 21B a^3 d^3 m^5 n^x x^x (4n) (e^x)^m / (m^8 + 28m^7 n + 8m^7 + 322m^6 n^2 + 196m^6 n + 28m^6 + 1960m^5 n^3 + 1932m^5 n^2 + 588m^5 n + 56m^5 + 6769m^4 n^4 + 9800m^4 n^3 + 4830m^4 n^2 + 980m^4 n + 70m^4 + 13132m^3 n^5 + 27076m^3 n^4 + 19600m^3 n^3 + 6440m^3 n^2 + 980m^3 n + 56m^3 + 13068m^2 n^6 + 39396m^2 n^5 + 40614m^2 n^4 + 19600m^2 n^3 + 4830m^2 n^2 + 588m^2 n + 28m^2 + 5040m n^7 + 26136m n^6 + 39396m n^5 + 27076m n^4 + 9800m n^3 + 1932m n^2 + 196m n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 1056B a^3 d^3 m^4 n^3 x^x x^x (4n) (e^x)^m / (m^8 + 28m^7 n + 8m^7 + 322m^6 n^2 + 196m^6 n + 28m^6 + 1960m^5 n^3 + 1932m^5 n^2 + 588m^5 n + 56m^5 + 6769m^4 n^4
\end{aligned}$$

$$\begin{aligned}
& + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} \\
& + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3} \\
& + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + \\
& 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} \\
& + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196m^{*n} + 8m + 5040n^{*n} \\
& *7 + 13068n^{*6} + 13132n^{*5} + 6769n^{*4} + 1960n^{*3} + 322n^{*2} + 28n + 1) \\
& + 1130B^{*a}d^{*3}m^{*4}n^{*2}x^{*x}(4n)(e^{*x})^{*m}/(m^{*8} + 28m^{*7}n + 8m^{*7} \\
& + 322m^{*6}n^{*2} + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} \\
& + 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + \\
& 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} \\
& + 6440m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} \\
& + 40614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} \\
& + 5040m^{*n}n^{*7} + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} \\
& + 1932m^{*n}n^{*2} + 196m^{*n} + 8m + 5040n^{*n}n^{*7} + 13068n^{*6} + 13132n^{*5} + 6769 \\
& *n^{*4} + 1960n^{*3} + 322n^{*2} + 28n + 1) + 360B^{*a}d^{*3}m^{*4}n^{*x}x^{*x}(4n) \\
&)*(e^{*x})^{*m}/(m^{*8} + 28m^{*7}n + 8m^{*7} + 322m^{*6}n^{*2} + 196m^{*6}n + 28m^{*6} \\
& + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} \\
& + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} \\
& + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3} \\
& + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + \\
& 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} \\
& + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196m^{*n} + 8m + 5040n^{*n} \\
& *7 + 13068n^{*6} + 13132n^{*5} + 6769n^{*4} + 1960n^{*3} + 322n^{*2} + 28n + 1) \\
&) + 35B^{*a}d^{*3}m^{*4}n^{*x}x^{*x}(4n)(e^{*x})^{*m}/(m^{*8} + 28m^{*7}n + 8m^{*7} + 32 \\
& 2m^{*6}n^{*2} + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5}n \\
& + 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n \\
& + 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 644 \\
& 0m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40 \\
& 614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5 \\
& 040m^{*n}n^{*7} + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 193 \\
& 2m^{*n}n^{*2} + 196m^{*n} + 8m + 5040n^{*n}n^{*7} + 13068n^{*6} + 13132n^{*5} + 6769n^{*4} \\
& + 1960n^{*3} + 322n^{*2} + 28n + 1) + 2545B^{*a}d^{*3}m^{*3}n^{*4}x^{*x}x^{*x}(4n) \\
&)*(e^{*x})^{*m}/(m^{*8} + 28m^{*7}n + 8m^{*7} + 322m^{*6}n^{*2} + 196m^{*6}n + 28m^{*6} \\
& + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} + \\
& 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} + \\
& 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3} \\
& + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + 4 \\
& 830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} \\
& + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196m^{*n} + 8m + 5040n^{*n} \\
& *7 + 13068n^{*6} + 13132n^{*5} + 6769n^{*4} + 1960n^{*3} + 322n^{*2} + 28n + 1) \\
& + 4224B^{*a}d^{*3}m^{*3}n^{*3}x^{*x}x^{*x}(4n)(e^{*x})^{*m}/(m^{*8} + 28m^{*7}n + 8m^{*7} \\
& + 322m^{*6}n^{*2} + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} + \\
& 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + \\
& 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} \\
& + 6440m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5}
\end{aligned}$$

$+ 40614m^{2n+4} + 19600m^{2n+3} + 4830m^{2n+2} + 588m^{2n} + 28m^{2n+2} + 5040m^{n+7} + 26136m^{n+6} + 39396m^{n+5} + 27076m^{n+4} + 9800m^{n+3} + 1932m^{n+2} + 196m^n + 8m + 5040n^{n+7} + 13068n^{n+6} + 13132n^{n+5} + 6769n^{n+4} + 1960n^{n+3} + 322n^{n+2} + 28n + 1) + 2260B^{a+3}d^{+3}m^{+3}n^{+2}x^{+x}(4n)(e^x)^m/(m^{+8} + 28m^{+7}n + 8m^{+7} + 322m^{+6}n^{+2} + 196m^{+6}n + 28m^{+6} + 1960m^{+5}n^{+3} + 1932m^{+5}n^{+2} + 588m^{+5}n + 56m^{+5} + 6769m^{+4}n^{+4} + 9800m^{+4}n^{+3} + 4830m^{+4}n^{+2} + 980m^{+4}n + 70m^{+4} + 13132m^{+3}n^{+5} + 27076m^{+3}n^{+4} + 19600m^{+3}n^{+3} + 6440m^{+3}n^{+2} + 980m^{+3}n + 56m^{+3} + 13068m^{+2}n^{+6} + 39396m^{+2}n^{+5} + 40614m^{+2}n^{+4} + 19600m^{+2}n^{+3} + 4830m^{+2}n^{+2} + 588m^{+2}n + 28m^{+2} + 5040m^{n+7} + 26136m^{n+6} + 39396m^{n+5} + 27076m^{n+4} + 9800m^{n+3} + 1932m^{n+2} + 196m^n + 8m + 5040n^{n+7} + 13068n^{n+6} + 13132n^{n+5} + 6769n^{n+4} + 1960n^{n+3} + 322n^{n+2} + 28n + 1) + 480B^{a+3}d^{+3}m^{+3}n^{+x}x^{+x}(4n)(e^x)^m/(m^{+8} + 28m^{+7}n + 8m^{+7} + 322m^{+6}n^{+2} + 196m^{+6}n + 28m^{+6} + 1960m^{+5}n^{+3} + 1932m^{+5}n^{+2} + 588m^{+5}n + 56m^{+5} + 6769m^{+4}n^{+4} + 9800m^{+4}n^{+3} + 4830m^{+4}n^{+2} + 980m^{+4}n + 70m^{+4} + 13132m^{+3}n^{+5} + 27076m^{+3}n^{+4} + 19600m^{+3}n^{+3} + 6440m^{+3}n^{+2} + 980m^{+3}n + 56m^{+3} + 13068m^{+2}n^{+6} + 39396m^{+2}n^{+5} + 40614m^{+2}n^{+4} + 19600m^{+2}n^{+3} + 4830m^{+2}n^{+2} + 588m^{+2}n + 28m^{+2} + 5040m^{n+7} + 26136m^{n+6} + 39396m^{n+5} + 27076m^{n+4} + 9800m^{n+3} + 1932m^{n+2} + 196m^n + 8m + 5040n^{n+7} + 13068n^{n+6} + 13132n^{n+5} + 6769n^{n+4} + 1960n^{n+3} + 322n^{n+2} + 28n + 1) + 35B^{a+3}d^{+3}m^{+3}x^{+x}(4n)(e^x)^m/(m^{+8} + 28m^{+7}n + 8m^{+7} + 322m^{+6}n^{+2} + 196m^{+6}n + 28m^{+6} + 1960m^{+5}n^{+3} + 1932m^{+5}n^{+2} + 588m^{+5}n + 56m^{+5} + 6769m^{+4}n^{+4} + 9800m^{+4}n^{+3} + 4830m^{+4}n^{+2} + 980m^{+4}n + 70m^{+4} + 13132m^{+3}n^{+5} + 27076m^{+3}n^{+4} + 19600m^{+3}n^{+3} + 6440m^{+3}n^{+2} + 980m^{+3}n + 56m^{+3} + 13068m^{+2}n^{+6} + 39396m^{+2}n^{+5} + 40614m^{+2}n^{+4} + 19600m^{+2}n^{+3} + 4830m^{+2}n^{+2} + 588m^{+2}n + 28m^{+2} + 5040m^{n+7} + 26136m^{n+6} + 39396m^{n+5} + 27076m^{n+4} + 9800m^{n+3} + 1932m^{n+2} + 196m^n + 8m + 5040n^{n+7} + 13068n^{n+6} + 13132n^{n+5} + 6769n^{n+4} + 1960n^{n+3} + 322n^{n+2} + 28n + 1) + 2952B^{a+3}d^{+3}m^{+2}n^{+5}x^{+x}(4n)(e^x)^m/(m^{+8} + 28m^{+7}n + 8m^{+7} + 322m^{+6}n^{+2} + 196m^{+6}n + 28m^{+6} + 1960m^{+5}n^{+3} + 1932m^{+5}n^{+2} + 588m^{+5}n + 56m^{+5} + 6769m^{+4}n^{+4} + 9800m^{+4}n^{+3} + 4830m^{+4}n^{+2} + 980m^{+4}n + 70m^{+4} + 13132m^{+3}n^{+5} + 27076m^{+3}n^{+4} + 19600m^{+3}n^{+3} + 6440m^{+3}n^{+2} + 980m^{+3}n + 56m^{+3} + 13068m^{+2}n^{+6} + 39396m^{+2}n^{+5} + 40614m^{+2}n^{+4} + 19600m^{+2}n^{+3} + 4830m^{+2}n^{+2} + 588m^{+2}n + 28m^{+2} + 5040m^{n+7} + 26136m^{n+6} + 39396m^{n+5} + 27076m^{n+4} + 9800m^{n+3} + 1932m^{n+2} + 196m^n + 8m + 5040n^{n+7} + 13068n^{n+6} + 13132n^{n+5} + 6769n^{n+4} + 1960n^{n+3} + 322n^{n+2} + 28n + 1) + 7635B^{a+3}d^{+3}m^{+2}n^{+4}x^{+x}(4n)(e^x)^m/(m^{+8} + 28m^{+7}n + 8m^{+7} + 322m^{+6}n^{+2} + 196m^{+6}n + 28m^{+6} + 1960m^{+5}n^{+3} + 1932m^{+5}n^{+2} + 588m^{+5}n + 56m^{+5} + 6769m^{+4}n^{+4} + 9800m^{+4}n^{+3} + 4830m^{+4}n^{+2} + 980m^{+4}n + 70m^{+4} + 13132m^{+3}n^{+5} + 27076m^{+3}n^{+4} + 19600m^{+3}n^{+3} + 6440m^{+3}n^{+2} + 980m^{+3}n + 56m^{+3} + 13068m^{+2}n^{+6} + 39396m^{+2}n^{+5} + 40614m^{+2}n^{+4} + 19600m^{+2}n^{+3} + 4830m^{+2}n^{+2} + 588m^{+2}n + 28m^{+2} + 5040m^{n+7} + 26136m^{n+6} + 39396m^{n+5} + 27076m^{n+4} + 9800m^{n+3} + 1932m^{n+2} + 196m^n + 8m + 5040$

$$\begin{aligned}
& n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + \\
& 1) + 6336*B*a^{**3}*d^{**3}*m^{**2}*n^{**3}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8* \\
& m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n \\
& *2 + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**} \\
& 2 + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n \\
& **3 + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}* \\
& n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28 \\
& *m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n \\
& **3 + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6 \\
& 769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 2260*B*a^{**3}*d^{**3}*m^{**2}*n^{**2}*x* \\
& x^{**}(4*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + \\
& 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m \\
& *4*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m \\
& *3*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + \\
& 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2} \\
& *n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} \\
& + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + \\
& 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 2 \\
& 8*n + 1) + 360*B*a^{**3}*d^{**3}*m^{**2}*n*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8 \\
& *m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n \\
& **2 + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n* \\
& *2 + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}* \\
& n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2} \\
& *n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 2 \\
& 8*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m \\
& n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + \\
& 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 21*B*a^{**3}*d^{**3}*m^{**2}*x*x^{**}(4* \\
& n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m \\
& *6 + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**} \\
& 4 + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**} \\
& 5 + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m \\
& *3 + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} \\
& + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 3939 \\
& 6*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040* \\
& n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + \\
& 1) + 1260*B*a^{**3}*d^{**3}*m*n^{**6}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} \\
& + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + \\
& 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + \\
& 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} \\
& + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} \\
& + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**} \\
& 2 + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} \\
& + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769* \\
& n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 5904*B*a^{**3}*d^{**3}*m*n^{**5}*x*x^{**}(4*n \\
&)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**}
\end{aligned}$$

$$\begin{aligned}
& 6 + 1960*m^{*5}*n^{*3} + 1932*m^{*5}*n^{*2} + 588*m^{*5}*n + 56*m^{*5} + 6769*m^{*4}*n^{*4} \\
& + 9800*m^{*4}*n^{*3} + 4830*m^{*4}*n^{*2} + 980*m^{*4}*n + 70*m^{*4} + 13132*m^{*3}*n^{*5} \\
& + 27076*m^{*3}*n^{*4} + 19600*m^{*3}*n^{*3} + 6440*m^{*3}*n^{*2} + 980*m^{*3}*n + 56*m^{*3} \\
& 3 + 13068*m^{*2}*n^{*6} + 39396*m^{*2}*n^{*5} + 40614*m^{*2}*n^{*4} + 19600*m^{*2}*n^{*3} + \\
& 4830*m^{*2}*n^{*2} + 588*m^{*2}*n + 28*m^{*2} + 5040*m*n^{*7} + 26136*m*n^{*6} + 39396 \\
& *m*n^{*5} + 27076*m*n^{*4} + 9800*m*n^{*3} + 1932*m*n^{*2} + 196*m*n + 8*m + 5040*n \\
& **7 + 13068*n^{*6} + 13132*n^{*5} + 6769*n^{*4} + 1960*n^{*3} + 322*n^{*2} + 28*n + 1 \\
&) + 7635*B*a^{*3}*d^{*3}*m*n^{*4}*x*x^{*}(4*n)*(e*x)^{**m}/(m^{*8} + 28*m^{*7}*n + 8*m^{*7} \\
& + 322*m^{*6}*n^{*2} + 196*m^{*6}*n + 28*m^{*6} + 1960*m^{*5}*n^{*3} + 1932*m^{*5}*n^{*2} + \\
& 588*m^{*5}*n + 56*m^{*5} + 6769*m^{*4}*n^{*4} + 9800*m^{*4}*n^{*3} + 4830*m^{*4}*n^{*2} + 9 \\
& 80*m^{*4}*n + 70*m^{*4} + 13132*m^{*3}*n^{*5} + 27076*m^{*3}*n^{*4} + 19600*m^{*3}*n^{*3} + \\
& 6440*m^{*3}*n^{*2} + 980*m^{*3}*n + 56*m^{*3} + 13068*m^{*2}*n^{*6} + 39396*m^{*2}*n^{*5} \\
& + 40614*m^{*2}*n^{*4} + 19600*m^{*2}*n^{*3} + 4830*m^{*2}*n^{*2} + 588*m^{*2}*n + 28*m^{*2} \\
& + 5040*m*n^{*7} + 26136*m*n^{*6} + 39396*m*n^{*5} + 27076*m*n^{*4} + 9800*m*n^{*3} + \\
& 1932*m*n^{*2} + 196*m*n + 8*m + 5040*n^{*7} + 13068*n^{*6} + 13132*n^{*5} + 6769*n \\
& **4 + 1960*n^{*3} + 322*n^{*2} + 28*n + 1) + 4224*B*a^{*3}*d^{*3}*m*n^{*3}*x*x^{*}(4*n) \\
& *(e*x)^{**m}/(m^{*8} + 28*m^{*7}*n + 8*m^{*7} + 322*m^{*6}*n^{*2} + 196*m^{*6}*n + 28*m^{*6} \\
& + 1960*m^{*5}*n^{*3} + 1932*m^{*5}*n^{*2} + 588*m^{*5}*n + 56*m^{*5} + 6769*m^{*4}*n^{*4} \\
& + 9800*m^{*4}*n^{*3} + 4830*m^{*4}*n^{*2} + 980*m^{*4}*n + 70*m^{*4} + 13132*m^{*3}*n^{*5} \\
& + 27076*m^{*3}*n^{*4} + 19600*m^{*3}*n^{*3} + 6440*m^{*3}*n^{*2} + 980*m^{*3}*n + 56*m^{*3} \\
& + 13068*m^{*2}*n^{*6} + 39396*m^{*2}*n^{*5} + 40614*m^{*2}*n^{*4} + 19600*m^{*2}*n^{*3} + \\
& 4830*m^{*2}*n^{*2} + 588*m^{*2}*n + 28*m^{*2} + 5040*m*n^{*7} + 26136*m*n^{*6} + 39396* \\
& m*n^{*5} + 27076*m*n^{*4} + 9800*m*n^{*3} + 1932*m*n^{*2} + 196*m*n + 8*m + 5040*n \\
& *7 + 13068*n^{*6} + 13132*n^{*5} + 6769*n^{*4} + 1960*n^{*3} + 322*n^{*2} + 28*n + 1) \\
& + 1130*B*a^{*3}*d^{*3}*m*n^{*2}*x*x^{*}(4*n)*(e*x)^{**m}/(m^{*8} + 28*m^{*7}*n + 8*m^{*7} + \\
& 322*m^{*6}*n^{*2} + 196*m^{*6}*n + 28*m^{*6} + 1960*m^{*5}*n^{*3} + 1932*m^{*5}*n^{*2} + 5 \\
& 88*m^{*5}*n + 56*m^{*5} + 6769*m^{*4}*n^{*4} + 9800*m^{*4}*n^{*3} + 4830*m^{*4}*n^{*2} + 98 \\
& 0*m^{*4}*n + 70*m^{*4} + 13132*m^{*3}*n^{*5} + 27076*m^{*3}*n^{*4} + 19600*m^{*3}*n^{*3} + \\
& 6440*m^{*3}*n^{*2} + 980*m^{*3}*n + 56*m^{*3} + 13068*m^{*2}*n^{*6} + 39396*m^{*2}*n^{*5} + \\
& 40614*m^{*2}*n^{*4} + 19600*m^{*2}*n^{*3} + 4830*m^{*2}*n^{*2} + 588*m^{*2}*n + 28*m^{*2} \\
& + 5040*m*n^{*7} + 26136*m*n^{*6} + 39396*m*n^{*5} + 27076*m*n^{*4} + 9800*m*n^{*3} + \\
& 1932*m*n^{*2} + 196*m*n + 8*m + 5040*n^{*7} + 13068*n^{*6} + 13132*n^{*5} + 6769*n \\
& *4 + 1960*n^{*3} + 322*n^{*2} + 28*n + 1) + 144*B*a^{*3}*d^{*3}*m*n*x*x^{*}(4*n)*(e*x) \\
&)^{**m}/(m^{*8} + 28*m^{*7}*n + 8*m^{*7} + 322*m^{*6}*n^{*2} + 196*m^{*6}*n + 28*m^{*6} + 19 \\
& 60*m^{*5}*n^{*3} + 1932*m^{*5}*n^{*2} + 588*m^{*5}*n + 56*m^{*5} + 6769*m^{*4}*n^{*4} + 980 \\
& 0*m^{*4}*n^{*3} + 4830*m^{*4}*n^{*2} + 980*m^{*4}*n + 70*m^{*4} + 13132*m^{*3}*n^{*5} + 270 \\
& 76*m^{*3}*n^{*4} + 19600*m^{*3}*n^{*3} + 6440*m^{*3}*n^{*2} + 980*m^{*3}*n + 56*m^{*3} + 13 \\
& 068*m^{*2}*n^{*6} + 39396*m^{*2}*n^{*5} + 40614*m^{*2}*n^{*4} + 19600*m^{*2}*n^{*3} + 4830* \\
& m^{*2}*n^{*2} + 588*m^{*2}*n + 28*m^{*2} + 5040*m*n^{*7} + 26136*m*n^{*6} + 39396*m*n^{*} \\
& 5 + 27076*m*n^{*4} + 9800*m*n^{*3} + 1932*m*n^{*2} + 196*m*n + 8*m + 5040*n^{*7} + \\
& 13068*n^{*6} + 13132*n^{*5} + 6769*n^{*4} + 1960*n^{*3} + 322*n^{*2} + 28*n + 1) + 7* \\
& B*a^{*3}*d^{*3}*m*x*x^{*}(4*n)*(e*x)^{**m}/(m^{*8} + 28*m^{*7}*n + 8*m^{*7} + 322*m^{*6}*n^{*} \\
& 2 + 196*m^{*6}*n + 28*m^{*6} + 1960*m^{*5}*n^{*3} + 1932*m^{*5}*n^{*2} + 588*m^{*5}*n + 5 \\
& 6*m^{*5} + 6769*m^{*4}*n^{*4} + 9800*m^{*4}*n^{*3} + 4830*m^{*4}*n^{*2} + 980*m^{*4}*n + 70 \\
& *m^{*4} + 13132*m^{*3}*n^{*5} + 27076*m^{*3}*n^{*4} + 19600*m^{*3}*n^{*3} + 6440*m^{*3}*n^{*}
\end{aligned}$$

$$\begin{aligned}
& 2 + 980*m^{*3}*n + 56*m^{*3} + 13068*m^{*2}*n^{*6} + 39396*m^{*2}*n^{*5} + 40614*m^{*2}*n^{*4} \\
& + 19600*m^{*2}*n^{*3} + 4830*m^{*2}*n^{*2} + 588*m^{*2}*n + 28*m^{*2} + 5040*m*n^{*7} \\
& + 26136*m*n^{*6} + 39396*m*n^{*5} + 27076*m*n^{*4} + 9800*m*n^{*3} + 1932*m*n^{*2} + \\
& 196*m*n + 8*m + 5040*n^{*7} + 13068*n^{*6} + 13132*n^{*5} + 6769*n^{*4} + 1960*n^{*3} \\
& + 322*n^{*2} + 28*n + 1) + 1260*B*a^{*3}*d^{*3}*n^{*6}*x*x^{*4}*(e*x)^{*m}/(m^{*8} \\
& + 28*m^{*7}*n + 8*m^{*7} + 322*m^{*6}*n^{*2} + 196*m^{*6}*n + 28*m^{*6} + 1960*m^{*5}*n^{*3} \\
& + 1932*m^{*5}*n^{*2} + 588*m^{*5}*n + 56*m^{*5} + 6769*m^{*4}*n^{*4} + 9800*m^{*4}*n^{*3} \\
& + 4830*m^{*4}*n^{*2} + 980*m^{*4}*n + 70*m^{*4} + 13132*m^{*3}*n^{*5} + 27076*m^{*3}*n^{*4} \\
& + 19600*m^{*3}*n^{*3} + 6440*m^{*3}*n^{*2} + 980*m^{*3}*n + 56*m^{*3} + 13068*m^{*2}*n^{*6} \\
& + 39396*m^{*2}*n^{*5} + 40614*m^{*2}*n^{*4} + 19600*m^{*2}*n^{*3} + 4830*m^{*2}*n^{*2} + \\
& 588*m^{*2}*n + 28*m^{*2} + 5040*m*n^{*7} + 26136*m*n^{*6} + 39396*m*n^{*5} + 27076*m \\
& *n^{*4} + 9800*m*n^{*3} + 1932*m*n^{*2} + 196*m*n + 8*m + 5040*n^{*7} + 13068*n^{*6} \\
& + 13132*n^{*5} + 6769*n^{*4} + 1960*n^{*3} + 322*n^{*2} + 28*n + 1) + 2952*B*a^{*3}*d^{*3} \\
& *n^{*5}*x*x^{*4}*(e*x)^{*m}/(m^{*8} + 28*m^{*7}*n + 8*m^{*7} + 322*m^{*6}*n^{*2} + 1 \\
& 96*m^{*6}*n + 28*m^{*6} + 1960*m^{*5}*n^{*3} + 1932*m^{*5}*n^{*2} + 588*m^{*5}*n + 56*m^{*5} \\
& + 6769*m^{*4}*n^{*4} + 9800*m^{*4}*n^{*3} + 4830*m^{*4}*n^{*2} + 980*m^{*4}*n + 70*m^{*4} \\
& + 13132*m^{*3}*n^{*5} + 27076*m^{*3}*n^{*4} + 19600*m^{*3}*n^{*3} + 6440*m^{*3}*n^{*2} + 9 \\
& 80*m^{*3}*n + 56*m^{*3} + 13068*m^{*2}*n^{*6} + 39396*m^{*2}*n^{*5} + 40614*m^{*2}*n^{*4} + \\
& 19600*m^{*2}*n^{*3} + 4830*m^{*2}*n^{*2} + 588*m^{*2}*n + 28*m^{*2} + 5040*m*n^{*7} + 26 \\
& 136*m*n^{*6} + 39396*m*n^{*5} + 27076*m*n^{*4} + 9800*m*n^{*3} + 1932*m*n^{*2} + 196* \\
& m*n + 8*m + 5040*n^{*7} + 13068*n^{*6} + 13132*n^{*5} + 6769*n^{*4} + 1960*n^{*3} + 3 \\
& 22*n^{*2} + 28*n + 1) + 2545*B*a^{*3}*d^{*3}*n^{*4}*x*x^{*4}*(e*x)^{*m}/(m^{*8} + 28* \\
& m^{*7}*n + 8*m^{*7} + 322*m^{*6}*n^{*2} + 196*m^{*6}*n + 28*m^{*6} + 1960*m^{*5}*n^{*3} + 1 \\
& 932*m^{*5}*n^{*2} + 588*m^{*5}*n + 56*m^{*5} + 6769*m^{*4}*n^{*4} + 9800*m^{*4}*n^{*3} + 48 \\
& 30*m^{*4}*n^{*2} + 980*m^{*4}*n + 70*m^{*4} + 13132*m^{*3}*n^{*5} + 27076*m^{*3}*n^{*4} + 1 \\
& 9600*m^{*3}*n^{*3} + 6440*m^{*3}*n^{*2} + 980*m^{*3}*n + 56*m^{*3} + 13068*m^{*2}*n^{*6} + \\
& 39396*m^{*2}*n^{*5} + 40614*m^{*2}*n^{*4} + 19600*m^{*2}*n^{*3} + 4830*m^{*2}*n^{*2} + 588* \\
& m^{*2}*n + 28*m^{*2} + 5040*m*n^{*7} + 26136*m*n^{*6} + 39396*m*n^{*5} + 27076*m*n^{*4} \\
& + 9800*m*n^{*3} + 1932*m*n^{*2} + 196*m*n + 8*m + 5040*n^{*7} + 13068*n^{*6} + 131 \\
& 32*n^{*5} + 6769*n^{*4} + 1960*n^{*3} + 322*n^{*2} + 28*n + 1) + 1056*B*a^{*3}*d^{*3}*n \\
& ^{*3}*x*x^{*4}*(e*x)^{*m}/(m^{*8} + 28*m^{*7}*n + 8*m^{*7} + 322*m^{*6}*n^{*2} + 196*m \\
& ^{*6}*n + 28*m^{*6} + 1960*m^{*5}*n^{*3} + 1932*m^{*5}*n^{*2} + 588*m^{*5}*n + 56*m^{*5} + 6 \\
& 769*m^{*4}*n^{*4} + 9800*m^{*4}*n^{*3} + 4830*m^{*4}*n^{*2} + 980*m^{*4}*n + 70*m^{*4} + 13 \\
& 132*m^{*3}*n^{*5} + 27076*m^{*3}*n^{*4} + 19600*m^{*3}*n^{*3} + 6440*m^{*3}*n^{*2} + 980*m \\
& ^{*3}*n + 56*m^{*3} + 13068*m^{*2}*n^{*6} + 39396*m^{*2}*n^{*5} + 40614*m^{*2}*n^{*4} + 1960 \\
& 0*m^{*2}*n^{*3} + 4830*m^{*2}*n^{*2} + 588*m^{*2}*n + 28*m^{*2} + 5040*m*n^{*7} + 26136*m \\
& *n^{*6} + 39396*m*n^{*5} + 27076*m*n^{*4} + 9800*m*n^{*3} + 1932*m*n^{*2} + 196*m*n + \\
& 8*m + 5040*n^{*7} + 13068*n^{*6} + 13132*n^{*5} + 6769*n^{*4} + 1960*n^{*3} + 322*n \\
& ^{*2} + 28*n + 1) + 226*B*a^{*3}*d^{*3}*n^{*2}*x*x^{*4}*(e*x)^{*m}/(m^{*8} + 28*m^{*7}*n \\
& + 8*m^{*7} + 322*m^{*6}*n^{*2} + 196*m^{*6}*n + 28*m^{*6} + 1960*m^{*5}*n^{*3} + 1932*m \\
& ^{*5}*n^{*2} + 588*m^{*5}*n + 56*m^{*5} + 6769*m^{*4}*n^{*4} + 9800*m^{*4}*n^{*3} + 4830*m \\
& ^{*4}*n^{*2} + 980*m^{*4}*n + 70*m^{*4} + 13132*m^{*3}*n^{*5} + 27076*m^{*3}*n^{*4} + 19600*m \\
& ^{*3}*n^{*3} + 6440*m^{*3}*n^{*2} + 980*m^{*3}*n + 56*m^{*3} + 13068*m^{*2}*n^{*6} + 39396* \\
& m^{*2}*n^{*5} + 40614*m^{*2}*n^{*4} + 19600*m^{*2}*n^{*3} + 4830*m^{*2}*n^{*2} + 588*m^{*2}*n \\
& + 28*m^{*2} + 5040*m*n^{*7} + 26136*m*n^{*6} + 39396*m*n^{*5} + 27076*m*n^{*4} + 980
\end{aligned}$$

$$\begin{aligned}
& 0*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n** \\
& 5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 24*B*a**3*d**3*n*x*x**(4 \\
& *n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m \\
& **6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n* \\
& *4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n* \\
& *5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m \\
& **3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 \\
& + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 393 \\
& 96*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040 \\
& *n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + \\
& 1) + B*a**3*d**3*x*x**(4*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6 \\
& *n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n \\
& + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n \\
& + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3 \\
& *n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m* \\
& *2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m* \\
& n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n* \\
& *2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960 \\
& *n**3 + 322*n**2 + 28*n + 1) + 3*B*a**2*b*c**3*m**7*x*x**(2*n)*(e*x)**m/(m* \\
& *8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5* \\
& n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n \\
& **3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3* \\
& n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2 \\
& *n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n** \\
& 2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 2707 \\
& 6*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n* \\
& *6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 78*B*a**2* \\
& b*c**3*m**6*n*x*x**(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n** \\
& 2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 5 \\
& 6*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70 \\
& *m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n** \\
& 2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n \\
& **4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 \\
& + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + \\
& 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n** \\
& 3 + 322*n**2 + 28*n + 1) + 21*B*a**2*b*c**3*m**6*x*x**(2*n)*(e*x)**m/(m**8 \\
& + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n** \\
& 3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 \\
& + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n** \\
& 4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n* \\
& *6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + \\
& 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m \\
& *n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 \\
& + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 810*B*a**2*b* \\
& c**3*m**5*n**2*x*x**(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n*
\end{aligned}$$

$$\begin{aligned}
& *2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + \\
& 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 7 \\
& 0*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n* \\
& *2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2* \\
& n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n** \\
& 7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 \\
& + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n* \\
& *3 + 322*n**2 + 28*n + 1) + 468*B*a**2*b*c**3*m**5*n*x*x***(2*n)*(e*x)**m/(m \\
& **8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5 \\
& *n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4* \\
& n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3 \\
& *n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m** \\
& 2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n* \\
& *2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 270 \\
& 76*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n \\
& **6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 63*B*a**2 \\
& *b*c**3*m**5*x*x***(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 \\
& + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56 \\
& *m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70* \\
& m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 \\
& + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n* \\
& *4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 \\
& + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + \\
& 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 \\
& + 322*n**2 + 28*n + 1) + 4260*B*a**2*b*c**3*m**4*n**3*x*x***(2*n)*(e*x)**m/ \\
& (m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m* \\
& *5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m** \\
& 4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m* \\
& *3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m \\
& **2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2* \\
& n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 2 \\
& 7076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068 \\
& *n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 4050*B* \\
& a**2*b*c**3*m**4*n**2*x*x***(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322* \\
& m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m* \\
& *5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m** \\
& 4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440* \\
& m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 4061 \\
& 4*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 504 \\
& 0*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932* \\
& m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + \\
& 1960*n**3 + 322*n**2 + 28*n + 1) + 1170*B*a**2*b*c**3*m**4*n*x*x***(2*n)*(e* \\
& x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1 \\
& 960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 98 \\
& 00*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27
\end{aligned}$$

076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 1
3068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830
*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n*
*5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 +
13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 1
05*B*a**2*b*c**3*m**4*x*x**(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*
m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m*
*5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**
4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*
m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 4061
4*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 504
0*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*
m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 +
1960*n**3 + 322*n**2 + 28*n + 1) + 11787*B*a**2*b*c**3*m**3*n**4*x*x**(2*n)
*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6
+ 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4
+ 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5
+ 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3
+ 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 +
4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*
m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n*
*7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1)
+ 17040*B*a**2*b*c**3*m**3*n**3*x*x**(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*
m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n*
*2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**
2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n
3 + 6440*m3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*
n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28
*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n
3 + 1932*m*n2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6
769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 8100*B*a**2*b*c**3*m**3*n**2*
x*x**(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n
+ 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*
m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*
m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n
+ 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m*
*2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**
6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m
+ 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 +
28*n + 1) + 1560*B*a**2*b*c**3*m**3*n*x*x**(2*n)*(e*x)**m/(m**8 + 28*m**7*
n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m
5*n2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m*
*4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*
m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396
*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*

$n + 28m^2 + 5040mn^7 + 26136m^2n^6 + 39396m^3n^5 + 27076m^4n^4 + 9800m^5n^3 + 1932m^6n^2 + 196m^7n + 8m^8 + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 105B^2a^2b^3c^3m^3x^2(e^x)^m / (m^8 + 28m^7n + 8m^6n^2 + 196m^5n^3 + 28m^4n^4 + 1960m^3n^5 + 1932m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136m^2n^6 + 39396m^3n^5 + 27076m^4n^4 + 9800m^5n^3 + 1932m^6n^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 15822B^2a^2b^3c^3m^2n^5x^2(e^x)^m / (m^8 + 28m^7n + 8m^6n^2 + 196m^5n^3 + 1932m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136m^2n^6 + 39396m^3n^5 + 27076m^4n^4 + 9800m^5n^3 + 1932m^6n^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 35361B^2a^2b^3c^3m^2n^4x^2(e^x)^m / (m^8 + 28m^7n + 8m^6n^2 + 196m^5n^3 + 1932m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136m^2n^6 + 39396m^3n^5 + 27076m^4n^4 + 9800m^5n^3 + 1932m^6n^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 25560B^2a^2b^3c^3m^2n^3x^2(e^x)^m / (m^8 + 28m^7n + 8m^6n^2 + 196m^5n^3 + 1932m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136m^2n^6 + 39396m^3n^5 + 27076m^4n^4 + 9800m^5n^3 + 1932m^6n^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 8100B^2a^2b^3c^3m^2n^2x^2(e^x)^m / (m^8 + 28m^7n + 8m^6n^2 + 196m^5n^3 + 1932m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136m^2n^6 + 39396m^3n^5 + 27076m^4n^4 + 9800m^5n^3 + 1932m^6n^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 1$

$960n^3 + 322n^2 + 28n + 1) + 1170B^2b^3m^2n^2x^2(e^x)$
 $^{**m}/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 19$
 $60m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 980$
 $0m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 270$
 $76m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13$
 $068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m$
 $m^2n^2 + 588m^2n + 28m^2 + 5040m^7n + 26136m^6n + 39396m^5n$
 $5 + 27076m^4n + 9800m^3n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040n^7 +$
 $13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 63$
 $B^2b^3m^2x^2(e^x)^{**m}/(m^8 + 28m^7n + 8m^7 + 322m^$
 $6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5$
 $n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n$
 $+ 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^$
 $3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m$
 $m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m$
 $m^7n + 26136m^6n + 39396m^5n + 27076m^4n + 9800m^3n^3 + 1932m^$
 $n^2 + 196m^2n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 19$
 $60n^3 + 322n^2 + 28n + 1) + 7560B^2b^3m^6x^2(e^x)$
 $^{**m}/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 196$
 $0m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800$
 $m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 2707$
 $6m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 130$
 $68m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m$
 $m^2n^2 + 588m^2n + 28m^2 + 5040m^7n + 26136m^6n + 39396m^5n$
 $+ 27076m^4n + 9800m^3n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040n^7 + 1$
 $3068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 316$
 $44B^2b^3m^5x^2(e^x)^{**m}/(m^8 + 28m^7n + 8m^7 + 32$
 $2m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m$
 $m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m$
 $m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 644$
 $0m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40$
 $614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5$
 $040m^7n + 26136m^6n + 39396m^5n + 27076m^4n + 9800m^3n^3 + 193$
 $2m^2n^2 + 196m^2n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4$
 $+ 1960n^3 + 322n^2 + 28n + 1) + 35361B^2b^3m^4x^2(e^x)$
 $^{**m}/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6$
 $+ 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 +$
 $9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 +$
 $27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3$
 $+ 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4$
 $830m^2n^2 + 588m^2n + 28m^2 + 5040m^7n + 26136m^6n + 39396m$
 $m^5n + 27076m^4n + 9800m^3n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040n^7$
 $+ 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1)$
 $+ 17040B^2b^3m^3x^2(e^x)^{**m}/(m^8 + 28m^7n + 8m^7$
 $+ 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 +$

$$\begin{aligned} & 588m^{5n} + 56m^{55} + 6769m^{4n^4} + 9800m^{4n^3} + 4830m^{4n^2} + \\ & 980m^4n + 70m^{44} + 13132m^{3n^5} + 27076m^{3n^4} + 19600m^{3n^3} \\ & + 6440m^{3n^2} + 980m^{33n} + 56m^{33} + 13068m^{2n^6} + 39396m^{2n^5} \\ & + 40614m^{2n^4} + 19600m^{2n^3} + 4830m^{2n^2} + 588m^{22n} + 28m^{22} \\ & + 5040m^n n^7 + 26136m^n n^6 + 39396m^n n^5 + 27076m^n n^4 + 9800m^n n^3 \\ & + 1932m^n n^2 + 196m^n n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 \\ & + 1960n^3 + 322n^2 + 28n + 1) + 4050B^2 a^2 b^3 c^3 m^n n^2 x^x (2n) \\ & * (e^x)^m / (m^8 + 28m^7 n + 8m^7 + 322m^6 n^2 + 196m^6 n + 28m^6 \\ & + 1960m^5 n^3 + 1932m^5 n^2 + 588m^5 n + 56m^5 + 6769m^4 n^4 \\ & + 9800m^4 n^3 + 4830m^4 n^2 + 980m^4 n + 70m^4 + 13132m^3 n^5 \\ & + 27076m^3 n^4 + 19600m^3 n^3 + 6440m^3 n^2 + 980m^3 n + 56m^3 \\ & + 13068m^2 n^6 + 39396m^2 n^5 + 40614m^2 n^4 + 19600m^2 n^3 \\ & + 4830m^2 n^2 + 588m^2 n + 28m^2 + 5040m^n n^7 + 26136m^n n^6 + 393 \\ & 96m^n n^5 + 27076m^n n^4 + 9800m^n n^3 + 1932m^n n^2 + 196m^n n + 8m + 5040 \\ & n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + \\ & 1) + 468B^2 a^2 b^3 c^3 m^n n^2 x^x (2n) * (e^x)^m / (m^8 + 28m^7 n + 8m^7 \\ & + 322m^6 n^2 + 196m^6 n + 28m^6 + 1960m^5 n^3 + 1932m^5 n^2 + \\ & 588m^5 n + 56m^5 + 6769m^4 n^4 + 9800m^4 n^3 + 4830m^4 n^2 + 9 \\ & 80m^4 n + 70m^4 + 13132m^3 n^5 + 27076m^3 n^4 + 19600m^3 n^3 + \\ & 6440m^3 n^2 + 980m^3 n + 56m^3 + 13068m^2 n^6 + 39396m^2 n^5 \\ & + 40614m^2 n^4 + 19600m^2 n^3 + 4830m^2 n^2 + 588m^2 n + 28m^2 + \\ & 5040m^n n^7 + 26136m^n n^6 + 39396m^n n^5 + 27076m^n n^4 + 9800m^n n^3 + \\ & 1932m^n n^2 + 196m^n n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 \\ & + 1960n^3 + 322n^2 + 28n + 1) + 21B^2 a^2 b^3 c^3 m^n n^2 x^x (2n) * (e^x) \\ &)^m / (m^8 + 28m^7 n + 8m^7 + 322m^6 n^2 + 196m^6 n + 28m^6 + 19 \\ & 60m^5 n^3 + 1932m^5 n^2 + 588m^5 n + 56m^5 + 6769m^4 n^4 + 980 \\ & 0m^4 n^3 + 4830m^4 n^2 + 980m^4 n + 70m^4 + 13132m^3 n^5 + 270 \\ & 76m^3 n^4 + 19600m^3 n^3 + 6440m^3 n^2 + 980m^3 n + 56m^3 + 13 \\ & 068m^2 n^6 + 39396m^2 n^5 + 40614m^2 n^4 + 19600m^2 n^3 + 4830 \\ & m^2 n^2 + 588m^2 n + 28m^2 + 5040m^n n^7 + 26136m^n n^6 + 39396m^n n^5 \\ & + 27076m^n n^4 + 9800m^n n^3 + 1932m^n n^2 + 196m^n n + 8m + 5040n^7 + \\ & 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 75 \\ & 60B^2 a^2 b^3 c^3 n^6 x^x (2n) * (e^x)^m / (m^8 + 28m^7 n + 8m^7 + 322 \\ & m^6 n^2 + 196m^6 n + 28m^6 + 1960m^5 n^3 + 1932m^5 n^2 + 588m^5 \\ & n + 56m^5 + 6769m^4 n^4 + 9800m^4 n^3 + 4830m^4 n^2 + 980m^4 \\ & n + 70m^4 + 13132m^3 n^5 + 27076m^3 n^4 + 19600m^3 n^3 + 6440 \\ & m^3 n^2 + 980m^3 n + 56m^3 + 13068m^2 n^6 + 39396m^2 n^5 + 4061 \\ & 4m^2 n^4 + 19600m^2 n^3 + 4830m^2 n^2 + 588m^2 n + 28m^2 + 504 \\ & 0m^n n^7 + 26136m^n n^6 + 39396m^n n^5 + 27076m^n n^4 + 9800m^n n^3 + 1932 \\ & m^n n^2 + 196m^n n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + \\ & 1960n^3 + 322n^2 + 28n + 1) + 15822B^2 a^2 b^3 c^3 n^5 x^x (2n) * (e^x) \\ &)^m / (m^8 + 28m^7 n + 8m^7 + 322m^6 n^2 + 196m^6 n + 28m^6 + 19 \\ & 60m^5 n^3 + 1932m^5 n^2 + 588m^5 n + 56m^5 + 6769m^4 n^4 + 980 \\ & 0m^4 n^3 + 4830m^4 n^2 + 980m^4 n + 70m^4 + 13132m^3 n^5 + 270 \\ & 76m^3 n^4 + 19600m^3 n^3 + 6440m^3 n^2 + 980m^3 n + 56m^3 + 13 \end{aligned}$$

068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 11787*B*a**2*b*c**3*n**4*x*x***(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 4260*B*a**2*b*c**3*n**3*x*x***(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 810*B*a**2*b*c**3*n**2*x*x***(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 78*B*a**2*b*c**3*n*x*x***(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 3*B*a**2*b*c**3*x*x***(2*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n

$$\begin{aligned}
& n + 8m + 5040n^{**7} + 13068n^{**6} + 13132n^{**5} + 6769n^{**4} + 1960n^{**3} + 322 \\
& *n^{**2} + 28n + 1) + 9*B*a**2*b*c**2*d*m**7*x*x**(3*n)*(e*x)**m/(m**8 + 28*m \\
& **7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 19 \\
& 32*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 483 \\
& 0*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19 \\
& 600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 3 \\
& 9396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m \\
& **2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 \\
& + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 1313 \\
& 2*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 225*B*a**2*b*c**2*d \\
& *m**6*n*x*x**(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 19 \\
& 6*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 \\
& + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 \\
& + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 98 \\
& 0*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + \\
& 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 261 \\
& 36*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m \\
& *n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 32 \\
& 2*n**2 + 28*n + 1) + 63*B*a**2*b*c**2*d*m**6*x*x**(3*n)*(e*x)**m/(m**8 + 28 \\
& *m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + \\
& 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4 \\
& 830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + \\
& 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + \\
& 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588 \\
& *m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n** \\
& 4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13 \\
& 132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 2223*B*a**2*b*c** \\
& 2*d*m**5*n**2*x*x**(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n** \\
& 2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 5 \\
& 6*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70 \\
& *m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n** \\
& 2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n \\
& **4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 \\
& + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + \\
& 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n** \\
& 3 + 322*n**2 + 28*n + 1) + 1350*B*a**2*b*c**2*d*m**5*n*x*x**(3*n)*(e*x)**m/ \\
& (m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m \\
& **5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m** \\
& 4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m \\
& **3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m \\
& **2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2* \\
& n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 2 \\
& 7076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068 \\
& *n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 189*B*a \\
& **2*b*c**2*d*m**5*x*x**(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6
\end{aligned}$$

$$\begin{aligned}
& n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n \\
& + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n \\
& + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3} \\
& *n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2} \\
& *n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m^{**2} \\
& *n^{**7} + 26136*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 27076*m^{**2}*n^{**4} + 9800*m^{**2}*n^{**3} + 1932*m^{**2} \\
& *n^{**2} + 196*m^{**2}*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960 \\
& *n^{**3} + 322*n^{**2} + 28*n + 1) + 10971*B*a^{**2}*b*c^{**2}*d*m^{**4}*n^{**3}*x*x^{**3}*n*(\\
& e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + \\
& 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + \\
& 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + \\
& 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + \\
& 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 48 \\
& 30*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m^{**2}*n^{**7} + 26136*m^{**2}*n^{**6} + 39396*m^{**2} \\
& *n^{**5} + 27076*m^{**2}*n^{**4} + 9800*m^{**2}*n^{**3} + 1932*m^{**2}*n^{**2} + 196*m^{**2}*n + 8*m + 5040*n^{**7} \\
& + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + \\
& 11115*B*a^{**2}*b*c^{**2}*d*m^{**4}*n^{**2}*x*x^{**3}*n*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8* \\
& m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} \\
& + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} \\
& + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} \\
& + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2} \\
& *n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28 \\
& *m^{**2} + 5040*m^{**2}*n^{**7} + 26136*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 27076*m^{**2}*n^{**4} + 9800*m^{**2} \\
& *n^{**3} + 1932*m^{**2}*n^{**2} + 196*m^{**2}*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6 \\
& 769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 3375*B*a^{**2}*b*c^{**2}*d*m^{**4}*n*x \\
& *x^{**3}*n*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n \\
& + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4} \\
& *n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3} \\
& *n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n \\
& + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2} \\
& *n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m^{**2}*n^{**7} + 26136*m^{**2}*n^{**6} \\
& + 39396*m^{**2}*n^{**5} + 27076*m^{**2}*n^{**4} + 9800*m^{**2}*n^{**3} + 1932*m^{**2}*n^{**2} + 196*m^{**2} \\
& *n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + \\
& 28*n + 1) + 315*B*a^{**2}*b*c^{**2}*d*m^{**4}*x*x^{**3}*n*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n \\
& + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5} \\
& *n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4} \\
& *n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3} \\
& *n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2} \\
& *n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n \\
& + 28*m^{**2} + 5040*m^{**2}*n^{**7} + 26136*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 27076*m^{**2}*n^{**4} + 9800 \\
& *m^{**2}*n^{**3} + 1932*m^{**2}*n^{**2} + 196*m^{**2}*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} \\
& + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 28008*B*a^{**2}*b*c^{**2}*d*m^{**3} \\
& *n^{**4}*x*x^{**3}*n*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196 \\
& *m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} \\
& + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} +
\end{aligned}$$

$$\begin{aligned}
& 13132*m^{*3}*n^{*5} + 27076*m^{*3}*n^{*4} + 19600*m^{*3}*n^{*3} + 6440*m^{*3}*n^{*2} + 980 \\
& *m^{*3}*n + 56*m^{*3} + 13068*m^{*2}*n^{*6} + 39396*m^{*2}*n^{*5} + 40614*m^{*2}*n^{*4} + 1 \\
& 9600*m^{*2}*n^{*3} + 4830*m^{*2}*n^{*2} + 588*m^{*2}*n + 28*m^{*2} + 5040*m*n^{*7} + 2613 \\
& 6*m*n^{*6} + 39396*m*n^{*5} + 27076*m*n^{*4} + 9800*m*n^{*3} + 1932*m*n^{*2} + 196*m \\
& n + 8*m + 5040*n^{*7} + 13068*n^{*6} + 13132*n^{*5} + 6769*n^{*4} + 1960*n^{*3} + 322 \\
& *n^{*2} + 28*n + 1) + 43884*B*a^{*2}*b*c^{*2}*d*m^{*3}*n^{*3}*x*x^{*3}*(e*x)^{*m}/(m \\
& *8 + 28*m^{*7}*n + 8*m^{*7} + 322*m^{*6}*n^{*2} + 196*m^{*6}*n + 28*m^{*6} + 1960*m^{*5} \\
& *n^{*3} + 1932*m^{*5}*n^{*2} + 588*m^{*5}*n + 56*m^{*5} + 6769*m^{*4}*n^{*4} + 9800*m^{*4}*n \\
& *^{*3} + 4830*m^{*4}*n^{*2} + 980*m^{*4}*n + 70*m^{*4} + 13132*m^{*3}*n^{*5} + 27076*m^{*3} \\
& *n^{*4} + 19600*m^{*3}*n^{*3} + 6440*m^{*3}*n^{*2} + 980*m^{*3}*n + 56*m^{*3} + 13068*m^{*2} \\
& *n^{*6} + 39396*m^{*2}*n^{*5} + 40614*m^{*2}*n^{*4} + 19600*m^{*2}*n^{*3} + 4830*m^{*2}*n^{*2} \\
& + 588*m^{*2}*n + 28*m^{*2} + 5040*m*n^{*7} + 26136*m*n^{*6} + 39396*m*n^{*5} + 2707 \\
& 6*m*n^{*4} + 9800*m*n^{*3} + 1932*m*n^{*2} + 196*m*n + 8*m + 5040*n^{*7} + 13068*n \\
& *6 + 13132*n^{*5} + 6769*n^{*4} + 1960*n^{*3} + 322*n^{*2} + 28*n + 1) + 22230*B*a \\
& *2*b*c^{*2}*d*m^{*3}*n^{*2}*x*x^{*3}*(e*x)^{*m}/(m^{*8} + 28*m^{*7}*n + 8*m^{*7} + 322 \\
& *m^{*6}*n^{*2} + 196*m^{*6}*n + 28*m^{*6} + 1960*m^{*5}*n^{*3} + 1932*m^{*5}*n^{*2} + 588*m \\
& *5*n + 56*m^{*5} + 6769*m^{*4}*n^{*4} + 9800*m^{*4}*n^{*3} + 4830*m^{*4}*n^{*2} + 980*m^{*4} \\
& *n + 70*m^{*4} + 13132*m^{*3}*n^{*5} + 27076*m^{*3}*n^{*4} + 19600*m^{*3}*n^{*3} + 6440 \\
& *m^{*3}*n^{*2} + 980*m^{*3}*n + 56*m^{*3} + 13068*m^{*2}*n^{*6} + 39396*m^{*2}*n^{*5} + 4061 \\
& 4*m^{*2}*n^{*4} + 19600*m^{*2}*n^{*3} + 4830*m^{*2}*n^{*2} + 588*m^{*2}*n + 28*m^{*2} + 504 \\
& 0*m*n^{*7} + 26136*m*n^{*6} + 39396*m*n^{*5} + 27076*m*n^{*4} + 9800*m*n^{*3} + 1932 \\
& *m*n^{*2} + 196*m*n + 8*m + 5040*n^{*7} + 13068*n^{*6} + 13132*n^{*5} + 6769*n^{*4} + \\
& 1960*n^{*3} + 322*n^{*2} + 28*n + 1) + 4500*B*a^{*2}*b*c^{*2}*d*m^{*3}*n*x*x^{*3}*(e*x)^{*m}/(m \\
& *8 + 28*m^{*7}*n + 8*m^{*7} + 322*m^{*6}*n^{*2} + 196*m^{*6}*n + 28*m^{*6} + \\
& 1960*m^{*5}*n^{*3} + 1932*m^{*5}*n^{*2} + 588*m^{*5}*n + 56*m^{*5} + 6769*m^{*4}*n^{*4} + \\
& 9800*m^{*4}*n^{*3} + 4830*m^{*4}*n^{*2} + 980*m^{*4}*n + 70*m^{*4} + 13132*m^{*3}*n^{*5} + \\
& 27076*m^{*3}*n^{*4} + 19600*m^{*3}*n^{*3} + 6440*m^{*3}*n^{*2} + 980*m^{*3}*n + 56*m^{*3} + \\
& 13068*m^{*2}*n^{*6} + 39396*m^{*2}*n^{*5} + 40614*m^{*2}*n^{*4} + 19600*m^{*2}*n^{*3} + 48 \\
& 30*m^{*2}*n^{*2} + 588*m^{*2}*n + 28*m^{*2} + 5040*m*n^{*7} + 26136*m*n^{*6} + 39396*m \\
& n^{*5} + 27076*m*n^{*4} + 9800*m*n^{*3} + 1932*m*n^{*2} + 196*m*n + 8*m + 5040*n^{*7} \\
& + 13068*n^{*6} + 13132*n^{*5} + 6769*n^{*4} + 1960*n^{*3} + 322*n^{*2} + 28*n + 1) + \\
& 315*B*a^{*2}*b*c^{*2}*d*m^{*3}*x*x^{*3}*(e*x)^{*m}/(m^{*8} + 28*m^{*7}*n + 8*m^{*7} + \\
& 322*m^{*6}*n^{*2} + 196*m^{*6}*n + 28*m^{*6} + 1960*m^{*5}*n^{*3} + 1932*m^{*5}*n^{*2} + 58 \\
& 8*m^{*5}*n + 56*m^{*5} + 6769*m^{*4}*n^{*4} + 9800*m^{*4}*n^{*3} + 4830*m^{*4}*n^{*2} + 980 \\
& *m^{*4}*n + 70*m^{*4} + 13132*m^{*3}*n^{*5} + 27076*m^{*3}*n^{*4} + 19600*m^{*3}*n^{*3} + 6 \\
& 440*m^{*3}*n^{*2} + 980*m^{*3}*n + 56*m^{*3} + 13068*m^{*2}*n^{*6} + 39396*m^{*2}*n^{*5} + \\
& 40614*m^{*2}*n^{*4} + 19600*m^{*2}*n^{*3} + 4830*m^{*2}*n^{*2} + 588*m^{*2}*n + 28*m^{*2} + \\
& 5040*m*n^{*7} + 26136*m*n^{*6} + 39396*m*n^{*5} + 27076*m*n^{*4} + 9800*m*n^{*3} + 1 \\
& 932*m*n^{*2} + 196*m*n + 8*m + 5040*n^{*7} + 13068*n^{*6} + 13132*n^{*5} + 6769*n^{*4} \\
& + 1960*n^{*3} + 322*n^{*2} + 28*n + 1) + 34164*B*a^{*2}*b*c^{*2}*d*m^{*2}*n^{*5}*x*x \\
& *^{*3}*(e*x)^{*m}/(m^{*8} + 28*m^{*7}*n + 8*m^{*7} + 322*m^{*6}*n^{*2} + 196*m^{*6}*n + 2 \\
& 8*m^{*6} + 1960*m^{*5}*n^{*3} + 1932*m^{*5}*n^{*2} + 588*m^{*5}*n + 56*m^{*5} + 6769*m^{*4} \\
& *n^{*4} + 9800*m^{*4}*n^{*3} + 4830*m^{*4}*n^{*2} + 980*m^{*4}*n + 70*m^{*4} + 13132*m^{*3} \\
& *n^{*5} + 27076*m^{*3}*n^{*4} + 19600*m^{*3}*n^{*3} + 6440*m^{*3}*n^{*2} + 980*m^{*3}*n + 5 \\
& 6*m^{*3} + 13068*m^{*2}*n^{*6} + 39396*m^{*2}*n^{*5} + 40614*m^{*2}*n^{*4} + 19600*m^{*2}*n
\end{aligned}$$

$$\begin{aligned}
& **3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + \\
& 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5 \\
& 040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28* \\
& n + 1) + 84024*B*a**2*b*c**2*d*m**2*n**4*x*x***(3*n)*(e*x)**m/(m**8 + 28*m** \\
& 7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932 \\
& *m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830* \\
& m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 1960 \\
& 0*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 393 \\
& 96*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m** \\
& 2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + \\
& 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132* \\
& n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 65826*B*a**2*b*c**2*d \\
& *m**2*n**3*x*x***(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + \\
& 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m \\
& **5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m* \\
& *4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + \\
& 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 \\
& + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + \\
& 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 19 \\
& 6*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + \\
& 322*n**2 + 28*n + 1) + 22230*B*a**2*b*c**2*d*m**2*n**2*x*x***(3*n)*(e*x)**m \\
& /(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m \\
& **5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m* \\
& *4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m \\
& **3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068* \\
& m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2 \\
& *n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + \\
& 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 1306 \\
& 8*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 3375*B \\
& *a**2*b*c**2*d*m**2*n*x*x***(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322* \\
& m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m* \\
& *5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m** \\
& 4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440* \\
& m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 4061 \\
& 4*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 504 \\
& 0*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932* \\
& m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + \\
& 1960*n**3 + 322*n**2 + 28*n + 1) + 189*B*a**2*b*c**2*d*m**2*x*x***(3*n)*(e*x \\
&)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 19 \\
& 60*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 980 \\
& 0*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 270 \\
& 76*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13 \\
& 068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830* \\
& m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n** \\
& 5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 +
\end{aligned}$$

$$\begin{aligned} & 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 15 \\ & 120*B*a**2*b*c**2*d*m*n**6*x*x**(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + \\ & 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 5 \\ & 88*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 98 \\ & 0*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + \\ & 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + \\ & 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 \\ & + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + \\ & 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n* \\ & *4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 68328*B*a**2*b*c**2*d*m*n**5*x*x**(\\ & 3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28* \\ & m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n \\ & **4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n \\ & **5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56* \\ & m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n** \\ & 3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39 \\ & 396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 504 \\ & 0*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n \\ & + 1) + 84024*B*a**2*b*c**2*d*m*n**4*x*x**(3*n)*(e*x)**m/(m**8 + 28*m**7*n + \\ & 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5 \\ & *n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n \\ & **2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m** \\ & 3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m* \\ & *2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + \\ & 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800* \\ & m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 \\ & + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 43884*B*a**2*b*c**2*d*m*n* \\ & *3*x*x**(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m** \\ & 6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 67 \\ & 69*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 131 \\ & 32*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m** \\ & 3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600 \\ & *m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m* \\ & n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + \\ & 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n** \\ & 2 + 28*n + 1) + 11115*B*a**2*b*c**2*d*m*n**2*x*x**(3*n)*(e*x)**m/(m**8 + 28 \\ & *m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + \\ & 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4 \\ & 830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + \\ & 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + \\ & 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588 \\ & *m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n** \\ & 4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13 \\ & 132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 1350*B*a**2*b*c** \\ & 2*d*m*n*x*x**(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 19 \\ \end{aligned}$$

$$\begin{aligned}
& 6m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5}n + 56m^{*5} \\
& + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} \\
& + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 98 \\
& 0m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + \\
& 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + 261 \\
& 36m^{*n}n^{*6} + 39396m^{*n}n^{*5} + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196m^{*n} \\
& n + 8m + 5040n^{*7} + 13068n^{*6} + 13132n^{*5} + 6769n^{*4} + 1960n^{*3} + 32 \\
& 2n^{*2} + 28n + 1) + 63B^{*a}a^{*2}b^{*c}c^{*2}d^{*m}x^{*x}x^{*}(3n)(e^{*x})^{*m}/(m^{*8} + 28m^{*} \\
& *7n + 8m^{*7} + 322m^{*6}n^{*2} + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 193 \\
& 2m^{*5}n^{*2} + 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4830 \\
& m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 196 \\
& 00m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} + 39 \\
& 396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588m^{*} \\
& *2n + 28m^{*2} + 5040m^{*n}n^{*7} + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} + 27076m^{*n}n^{*4} + \\
& 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196m^{*n} + 8m + 5040n^{*7} + 13068n^{*6} + 13132 \\
& n^{*5} + 6769n^{*4} + 1960n^{*3} + 322n^{*2} + 28n + 1) + 15120B^{*a}a^{*2}b^{*c}c^{*2}d^{*} \\
& n^{*6}x^{*x}x^{*}(3n)(e^{*x})^{*m}/(m^{*8} + 28m^{*7}n + 8m^{*7} + 322m^{*6}n^{*2} + 196 \\
& m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5}n + 56m^{*5} \\
& + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} + \\
& 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980 \\
& m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 1 \\
& 9600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + 2613 \\
& 6m^{*n}n^{*6} + 39396m^{*n}n^{*5} + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196m^{*n} \\
& n + 8m + 5040n^{*7} + 13068n^{*6} + 13132n^{*5} + 6769n^{*4} + 1960n^{*3} + 322 \\
& n^{*2} + 28n + 1) + 34164B^{*a}a^{*2}b^{*c}c^{*2}d^{*n}n^{*5}x^{*x}x^{*}(3n)(e^{*x})^{*m}/(m^{*8} + \\
& 28m^{*7}n + 8m^{*7} + 322m^{*6}n^{*2} + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} \\
& + 1932m^{*5}n^{*2} + 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + \\
& 4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} \\
& + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} \\
& + 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 5 \\
& 88m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} + 27076m^{*n} \\
& n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196m^{*n} + 8m + 5040n^{*7} + 13068n^{*6} + \\
& 13132n^{*5} + 6769n^{*4} + 1960n^{*3} + 322n^{*2} + 28n + 1) + 28008B^{*a}a^{*2}b^{*} \\
& c^{*2}d^{*n}n^{*4}x^{*x}x^{*}(3n)(e^{*x})^{*m}/(m^{*8} + 28m^{*7}n + 8m^{*7} + 322m^{*6}n^{*2} \\
& + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5}n + 56m^{*} \\
& m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*} \\
& **4 + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} \\
& + 980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m^{*2}n^{*} \\
& **4 + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + \\
& 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 1 \\
& 96m^{*n} + 8m + 5040n^{*7} + 13068n^{*6} + 13132n^{*5} + 6769n^{*4} + 1960n^{*3} \\
& + 322n^{*2} + 28n + 1) + 10971B^{*a}a^{*2}b^{*c}c^{*2}d^{*n}n^{*3}x^{*x}x^{*}(3n)(e^{*x})^{*m}/(m^{*} \\
& *8 + 28m^{*7}n + 8m^{*7} + 322m^{*6}n^{*2} + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*} \\
& n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*} \\
& **3 + 4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*}
\end{aligned}$$

$n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}$
 $*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2}$
 $+ 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 2707$
 $6*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n*$
 $*6 + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 2223*B*a**$
 $2*b*c**2*d*n**2*x*x**(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n$
 $**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n +$
 $56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n +$
 $70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n$
 $**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2$
 $*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n*$
 $*7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2$
 $+ 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n$
 $**3 + 322*n**2 + 28*n + 1) + 225*B*a**2*b*c**2*d*n*x*x**(3*n)*(e*x)**m/(m**$
 $8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n$
 $**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n*$
 $*3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n$
 $**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*$
 $n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2$
 $+ 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076$
 $*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**$
 $6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 9*B*a**2*b*$
 $c**2*d*x*x**(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196$
 $*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5$
 $+ 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 +$
 $13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980$
 $*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 1$
 $9600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 2613$
 $6*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*$
 $n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322$
 $*n**2 + 28*n + 1) + 9*B*a**2*b*c*d**2*m**7*x*x**(4*n)*(e*x)**m/(m**8 + 28*m$
 $**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 19$
 $32*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 483$
 $0*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19$
 $600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 3$
 $9396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m$
 $**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4$
 $+ 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 1313$
 $2*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 216*B*a**2*b*c*d**2$
 $*m**6*n*x*x**(4*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 19$
 $6*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5$
 $+ 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4$
 $+ 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 98$
 $0*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 +$
 $19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 261$

$36*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m$
 $*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 32$
 $2*n**2 + 28*n + 1) + 63*B*a**2*b*c*d**2*m**6*x*x**(4*n)*(e*x)**m/(m**8 + 28$
 $*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 +$
 $1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4$
 $830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 +$
 $19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 +$
 $39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588$
 $*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**$
 $4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13$
 $132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 2034*B*a**2*b*c*d$
 $**2*m**5*n**2*x*x**(4*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**$
 $2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 5$
 $6*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70$
 $*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**$
 $2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n$
 $**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7$
 $+ 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 +$
 $196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**$
 $3 + 322*n**2 + 28*n + 1) + 1296*B*a**2*b*c*d**2*m**5*n*x*x**(4*n)*(e*x)**m/$
 $(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m*$
 $*5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**$
 $4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m*$
 $*3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m$
 $**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*$
 $n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 2$
 $7076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068$
 $*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 189*B*a$
 $**2*b*c*d**2*m**5*x*x**(4*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6$
 $*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n$
 $+ 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n$
 $+ 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3$
 $*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m*$
 $*2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*$
 $n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n*$
 $*2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960$
 $*n**3 + 322*n**2 + 28*n + 1) + 9504*B*a**2*b*c*d**2*m**4*n**3*x*x**(4*n)*(e$
 $*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 +$
 $1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9$
 $800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 2$
 $7076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 +$
 $13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 483$
 $0*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n$
 $**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7$
 $+ 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) +$

$$\begin{aligned}
& 5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4 \\
& *n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m \\
& **3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614 \\
& *m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040 \\
& *m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m \\
& *n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1 \\
& 960*n**3 + 322*n**2 + 28*n + 1) + 4320*B*a**2*b*c*d**2*m**3*n*x*x**(4*n)*(e \\
& *x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + \\
& 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9 \\
& 800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 2 \\
& 7076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + \\
& 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 483 \\
& 0*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n \\
& **5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 \\
& + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + \\
& 315*B*a**2*b*c*d**2*m**3*x*x**(4*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 3 \\
& 22*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588 \\
& *m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980* \\
& m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 64 \\
& 40*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 4 \\
& 0614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + \\
& 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 19 \\
& 32*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 \\
& + 1960*n**3 + 322*n**2 + 28*n + 1) + 26568*B*a**2*b*c*d**2*m**2*n**5*x*x** \\
& (4*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28 \\
& *m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4* \\
& n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3* \\
& n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56 \\
& *m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n* \\
& *3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 3 \\
& 9396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 50 \\
& 40*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n \\
& + 1) + 68715*B*a**2*b*c*d**2*m**2*n**4*x*x**(4*n)*(e*x)**m/(m**8 + 28*m**7 \\
& *n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932* \\
& m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m \\
& **4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600 \\
& *m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 3939 \\
& 6*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2 \\
& *n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9 \\
& 800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n \\
& **5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 57024*B*a**2*b*c*d**2* \\
& m**2*n**3*x*x**(4*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + \\
& 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m* \\
& *5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m** \\
& 4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 +
\end{aligned}$$

$980m^{3n} + 56m^3 + 13068m^{2n+6} + 39396m^{2n+5} + 40614m^{2n+4}$
 $+ 19600m^{2n+3} + 4830m^{2n+2} + 588m^{2n} + 28m^2 + 5040m^{n+7} + 2$
 $6136m^{n+6} + 39396m^{n+5} + 27076m^{n+4} + 9800m^{n+3} + 1932m^{n+2} + 196$
 $m^n + 8m + 5040n^{n+7} + 13068n^{n+6} + 13132n^{n+5} + 6769n^{n+4} + 1960n^{n+3} +$
 $322n^{n+2} + 28n + 1) + 20340B^{a+2}b^2c^2d^{2n+2}m^{2n+2}x^{4n}(e^x)^m /$
 $(m^8 + 28m^{7n} + 8m^{n+7} + 322m^{6n+2} + 196m^{6n} + 28m^{n+6} + 1960m^{$
 $5n+3} + 1932m^{5n+2} + 588m^{5n} + 56m^{n+5} + 6769m^{4n+4} + 9800m^{4n+3}$
 $+ 4830m^{4n+2} + 980m^{4n} + 70m^{n+4} + 13132m^{3n+5} + 27076m^{$
 $3n+4} + 19600m^{3n+3} + 6440m^{3n+2} + 980m^{3n} + 56m^{n+3} + 13068m^{$
 $2n+6} + 39396m^{2n+5} + 40614m^{2n+4} + 19600m^{2n+3} + 4830m^{2n+2}$
 $+ 588m^{2n} + 28m^2 + 5040m^{n+7} + 26136m^{n+6} + 39396m^{n+5} + 2$
 $7076m^{n+4} + 9800m^{n+3} + 1932m^{n+2} + 196m^n + 8m + 5040n^{n+7} + 13068$
 $n^{n+6} + 13132n^{n+5} + 6769n^{n+4} + 1960n^{n+3} + 322n^{n+2} + 28n + 1) + 3240B^{$
 $a+2}b^2c^2d^{2n+2}m^{2n+2}x^{4n}(e^x)^m / (m^8 + 28m^{7n} + 8m^{n+7} + 322m^{$
 $6n+2} + 196m^{6n} + 28m^{n+6} + 1960m^{5n+3} + 1932m^{5n+2} + 588m^{5n}$
 $+ 56m^{n+5} + 6769m^{4n+4} + 9800m^{4n+3} + 4830m^{4n+2} + 980m^{4n}$
 $+ 70m^{n+4} + 13132m^{3n+5} + 27076m^{3n+4} + 19600m^{3n+3} + 6440m^{$
 $3n+2} + 980m^{3n} + 56m^{n+3} + 13068m^{2n+6} + 39396m^{2n+5} + 40614$
 $m^{2n+4} + 19600m^{2n+3} + 4830m^{2n+2} + 588m^{2n} + 28m^2 + 5040$
 $m^{n+7} + 26136m^{n+6} + 39396m^{n+5} + 27076m^{n+4} + 9800m^{n+3} + 1932m^{$
 $n+2} + 196m^n + 8m + 5040n^{n+7} + 13068n^{n+6} + 13132n^{n+5} + 6769n^{n+4} + 1$
 $960n^{n+3} + 322n^{n+2} + 28n + 1) + 189B^{a+2}b^2c^2d^{2n+2}m^{2n+2}x^{4n}(e^x)$
 $^m / (m^8 + 28m^{7n} + 8m^{n+7} + 322m^{6n+2} + 196m^{6n} + 28m^{n+6} + 196$
 $0m^{5n+3} + 1932m^{5n+2} + 588m^{5n} + 56m^{n+5} + 6769m^{4n+4} + 9800$
 $m^{4n+3} + 4830m^{4n+2} + 980m^{4n} + 70m^{n+4} + 13132m^{3n+5} + 2707$
 $6m^{3n+4} + 19600m^{3n+3} + 6440m^{3n+2} + 980m^{3n} + 56m^{n+3} + 130$
 $68m^{2n+6} + 39396m^{2n+5} + 40614m^{2n+4} + 19600m^{2n+3} + 4830m^{$
 $2n+2} + 588m^{2n} + 28m^2 + 5040m^{n+7} + 26136m^{n+6} + 39396m^{n+5}$
 $+ 27076m^{n+4} + 9800m^{n+3} + 1932m^{n+2} + 196m^n + 8m + 5040n^{n+7} + 1$
 $3068n^{n+6} + 13132n^{n+5} + 6769n^{n+4} + 1960n^{n+3} + 322n^{n+2} + 28n + 1) + 113$
 $40B^{a+2}b^2c^2d^{2n+2}m^{2n+2}x^{4n}(e^x)^m / (m^8 + 28m^{7n} + 8m^{n+7} +$
 $322m^{6n+2} + 196m^{6n} + 28m^{n+6} + 1960m^{5n+3} + 1932m^{5n+2} + 58$
 $8m^{5n} + 56m^{n+5} + 6769m^{4n+4} + 9800m^{4n+3} + 4830m^{4n+2} + 980$
 $m^{4n} + 70m^{n+4} + 13132m^{3n+5} + 27076m^{3n+4} + 19600m^{3n+3} + 6$
 $440m^{3n+2} + 980m^{3n} + 56m^{n+3} + 13068m^{2n+6} + 39396m^{2n+5} +$
 $40614m^{2n+4} + 19600m^{2n+3} + 4830m^{2n+2} + 588m^{2n} + 28m^2 +$
 $5040m^{n+7} + 26136m^{n+6} + 39396m^{n+5} + 27076m^{n+4} + 9800m^{n+3} + 1$
 $932m^{n+2} + 196m^n + 8m + 5040n^{n+7} + 13068n^{n+6} + 13132n^{n+5} + 6769n^{n+}$
 $4} + 1960n^{n+3} + 322n^{n+2} + 28n + 1) + 53136B^{a+2}b^2c^2d^{2n+2}m^{2n+2}x^{4n}$
 $(e^x)^m / (m^8 + 28m^{7n} + 8m^{n+7} + 322m^{6n+2} + 196m^{6n} + 28m^{$
 $n+6} + 1960m^{5n+3} + 1932m^{5n+2} + 588m^{5n} + 56m^{n+5} + 6769m^{4n+}$
 $n+4} + 9800m^{4n+3} + 4830m^{4n+2} + 980m^{4n} + 70m^{n+4} + 13132m^{3n+}$
 $n+5} + 27076m^{3n+4} + 19600m^{3n+3} + 6440m^{3n+2} + 980m^{3n} + 56m^{$
 $n+3} + 13068m^{2n+6} + 39396m^{2n+5} + 40614m^{2n+4} + 19600m^{2n+3}$
 $+ 4830m^{2n+2} + 588m^{2n} + 28m^2 + 5040m^{n+7} + 26136m^{n+6} + 393$

$96*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040$
 $*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n +$
 $1) + 68715*B*a**2*b*c*d**2*m*n**4*x*x**(4*n)*(e*x)**m/(m**8 + 28*m**7*n +$
 $8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*$
 $n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n$
 $**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3$
 $*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**$
 $2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n +$
 $28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m$
 $*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 +$
 $6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 38016*B*a**2*b*c*d**2*m*n**$
 $3*x*x**(4*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6$
 $*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 676$
 $9*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 1313$
 $2*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3$
 $*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*$
 $m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n$
 $**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8$
 $*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2$
 $+ 28*n + 1) + 10170*B*a**2*b*c*d**2*m*n**2*x*x**(4*n)*(e*x)**m/(m**8 + 28*$
 $m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1$
 $932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 48$
 $30*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 1$
 $9600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 +$
 $39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*$
 $m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4$
 $+ 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 131$
 $32*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 1296*B*a**2*b*c*d*$
 $*2*m*n*x*x**(4*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196$
 $*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5$
 $+ 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 +$
 $13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980$
 $*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 1$
 $9600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 2613$
 $6*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*$
 $n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322$
 $*n**2 + 28*n + 1) + 63*B*a**2*b*c*d**2*m*x*x**(4*n)*(e*x)**m/(m**8 + 28*m**$
 $7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932$
 $*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*$
 $m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 1960$
 $0*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 393$
 $96*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**$
 $2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 +$
 $9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*$
 $n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 11340*B*a**2*b*c*d**2$

$$\begin{aligned}
& *n^{*6} * x * x^{*(4*n)} * (e*x)^{**m} / (m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196* \\
& m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + \\
& 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + \\
& 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980* \\
& m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19 \\
& 600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136 \\
& *m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n \\
& + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322* \\
& n^{**2} + 28*n + 1) + 26568*B*a^{**2}*b*c*d^{**2}*n^{**5} * x * x^{*(4*n)} * (e*x)^{**m} / (m^{**8} + 2 \\
& 8*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + \\
& 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + \\
& 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + \\
& 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} \\
& + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 58 \\
& 8*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{** \\
& *4 + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 1 \\
& 3132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 22905*B*a^{**2}*b*c \\
& *d^{**2}*n^{**4} * x * x^{*(4*n)} * (e*x)^{**m} / (m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + \\
& 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m \\
& **5 + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m \\
& *4 + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + \\
& 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} \\
& + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + \\
& 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 19 \\
& 6*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + \\
& 322*n^{**2} + 28*n + 1) + 9504*B*a^{**2}*b*c*d^{**2}*n^{**3} * x * x^{*(4*n)} * (e*x)^{**m} / (m^{**8} \\
& + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{** \\
& *3 + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{** \\
& 3 + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{** \\
& *4 + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n \\
& **6 + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} \\
& + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076* \\
& m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} \\
& + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 2034*B*a^{**2}* \\
& b*c*d^{**2}*n^{**2} * x * x^{*(4*n)} * (e*x)^{**m} / (m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{** \\
& 2 + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 5 \\
& 6*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70 \\
& *m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{** \\
& 2 + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n \\
& **4 + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} \\
& + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + \\
& 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{** \\
& 3 + 322*n^{**2} + 28*n + 1) + 216*B*a^{**2}*b*c*d^{**2}*n * x * x^{*(4*n)} * (e*x)^{**m} / (m^{**8} \\
& + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{** \\
& 3 + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3}
\end{aligned}$$

+ 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 9*B*a**2*b*c*d**2*x*x***(4*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 3*B*a**2*b*d**3*m**7*x*x***(5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 69*B*a**2*b*d**3*m**6*n*x*x***(5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 21*B*a**2*b*d**3*m**6*x*x***(5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 621*B*a**2*b*d**3*m**5*n**2*x*x***(5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*

$$\begin{aligned}
& 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 105*B*a^{**2}*b*d \\
& **3*m^{**4}*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 1 \\
& 96*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} \\
& 5 + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} \\
& + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 9 \\
& 80*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + \\
& 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26 \\
& 136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196* \\
& m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 3 \\
& 22*n^{**2} + 28*n + 1) + 6432*B*a^{**2}*b*d^{**3}*m^{**3}*n^{**4}*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**} \\
& 8 + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n \\
& **3 + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n* \\
& *3 + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n \\
& **4 + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}* \\
& n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} \\
& + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076 \\
& *m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**} \\
& 6 + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 11100*B*a^{**} \\
& 2*b*d^{**3}*m^{**3}*n^{**3}*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**} \\
& 6*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}* \\
& n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n \\
& + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**} \\
& 3*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m \\
& **2*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m \\
& *n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n \\
& **2 + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 196 \\
& 0*n^{**3} + 322*n^{**2} + 28*n + 1) + 6210*B*a^{**2}*b*d^{**3}*m^{**3}*n^{**2}*x*x^{**}(5*n)*(e* \\
& x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1 \\
& 960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 98 \\
& 00*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27 \\
& 076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 1 \\
& 3068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830 \\
& *m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n* \\
& *5 + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + \\
& 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 1 \\
& 380*B*a^{**2}*b*d^{**3}*m^{**3}*n*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 3 \\
& 22*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588 \\
& *m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980* \\
& m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 64 \\
& 40*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 4 \\
& 0614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + \\
& 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 19 \\
& 32*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} \\
& + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 105*B*a^{**2}*b*d^{**3}*m^{**3}*x*x^{**}(5*n)*(e* \\
& x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1
\end{aligned}$$

$960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^1n^7 + 26136m^1n^6 + 39396m^1n^5 + 27076m^1n^4 + 9800m^1n^3 + 1932m^1n^2 + 196m^1n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 7236B^2a^2b^3d^3m^2n^5x^5(5n)(e^x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^1n^7 + 26136m^1n^6 + 39396m^1n^5 + 27076m^1n^4 + 9800m^1n^3 + 1932m^1n^2 + 196m^1n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 19296B^2a^2b^3d^3m^2n^4x^5(5n)(e^x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^1n^7 + 26136m^1n^6 + 39396m^1n^5 + 27076m^1n^4 + 9800m^1n^3 + 1932m^1n^2 + 196m^1n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 16650B^2a^2b^3d^3m^2n^3x^5(5n)(e^x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^1n^7 + 26136m^1n^6 + 39396m^1n^5 + 27076m^1n^4 + 9800m^1n^3 + 1932m^1n^2 + 196m^1n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 6210B^2a^2b^3d^3m^2n^2x^5(5n)(e^x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^1n^7 + 26136m^1n^6 + 39396m^1n^5 + 27076m^1n^4 + 9800m^1n^3 + 1932m^1n^2 + 196m^1n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 1035B^2a^2b^3d^3m^2n^1x^5(5n)(e^x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 +$

$19600m^{3n^3} + 6440m^{3n^2} + 980m^{3n} + 56m^3 + 13068m^{2n^6} + 39396m^{2n^5} + 40614m^{2n^4} + 19600m^{2n^3} + 4830m^{2n^2} + 588m^{2n} + 28m^2 + 5040m^{n^7} + 26136m^{n^6} + 39396m^{n^5} + 27076m^{n^4} + 9800m^{n^3} + 1932m^{n^2} + 196m^n + 8m + 5040n^{n^7} + 13068n^{n^6} + 13132n^{n^5} + 6769n^{n^4} + 1960n^{n^3} + 322n^{n^2} + 28n + 1) + 63B^*a^{*2}b^*d^{*3}m^{*2}x^*x^{*}(5n)(e^*x)^{**}/(m^{**8} + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} + 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} + 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + 5040m^{n^7} + 26136m^{n^6} + 39396m^{n^5} + 27076m^{n^4} + 9800m^{n^3} + 1932m^{n^2} + 196m^n + 8m + 5040n^{n^7} + 13068n^{n^6} + 13132n^{n^5} + 6769n^{n^4} + 1960n^{n^3} + 322n^{n^2} + 28n + 1) + 3024B^*a^{*2}b^*d^{*3}m^{*n}x^*x^{*}(5n)(e^*x)^{**}/(m^{**8} + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} + 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} + 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + 5040m^{n^7} + 26136m^{n^6} + 39396m^{n^5} + 27076m^{n^4} + 9800m^{n^3} + 1932m^{n^2} + 196m^n + 8m + 5040n^{n^7} + 13068n^{n^6} + 13132n^{n^5} + 6769n^{n^4} + 1960n^{n^3} + 322n^{n^2} + 28n + 1) + 14472B^*a^{*2}b^*d^{*3}m^{*n}x^*x^{*}(5n)(e^*x)^{**}/(m^{**8} + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} + 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} + 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + 5040m^{n^7} + 26136m^{n^6} + 39396m^{n^5} + 27076m^{n^4} + 9800m^{n^3} + 1932m^{n^2} + 196m^n + 8m + 5040n^{n^7} + 13068n^{n^6} + 13132n^{n^5} + 6769n^{n^4} + 1960n^{n^3} + 322n^{n^2} + 28n + 1) + 19296B^*a^{*2}b^*d^{*3}m^{*n}x^*x^{*}(5n)(e^*x)^{**}/(m^{**8} + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} + 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} + 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + 5040m^{n^7} + 26136m^{n^6} + 39396m^{n^5} + 27076m^{n^4} + 9800m^{n^3} + 1932m^{n^2} + 196m^n + 8m + 5040n^{n^7} + 13068n^{n^6} + 13132n^{n^5} + 6769n^{n^4} + 1960n^{n^3} + 322n^{n^2} + 28n + 1) + 11100B^*a^{*2}b^*d^{*3}m^{*n}x^*x^{*}(5n)(e^*x)^{**}/(m^{**8} + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} + 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} + 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + 5040m^{n^7}$

+ 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 3105*B*a**2*b*d**3*m*n**2*x*x***(5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 414*B*a**2*b*d**3*m*n*x*x***(5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 21*B*a**2*b*d**3*m*x*x***(5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 3024*B*a**2*b*d**3*n**6*x*x***(5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 7236*B*a**2*b*d**3*n**5*x*x***(5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 6432*B*a**2*b*d**3

$$\begin{aligned}
& *n^{**4} * x * x^{**5} * (e * x)^{**m} / (m^{**8} + 28 * m^{**7} * n + 8 * m^{**7} + 322 * m^{**6} * n^{**2} + 196 * \\
& m^{**6} * n + 28 * m^{**6} + 1960 * m^{**5} * n^{**3} + 1932 * m^{**5} * n^{**2} + 588 * m^{**5} * n + 56 * m^{**5} + \\
& 6769 * m^{**4} * n^{**4} + 9800 * m^{**4} * n^{**3} + 4830 * m^{**4} * n^{**2} + 980 * m^{**4} * n + 70 * m^{**4} + \\
& 13132 * m^{**3} * n^{**5} + 27076 * m^{**3} * n^{**4} + 19600 * m^{**3} * n^{**3} + 6440 * m^{**3} * n^{**2} + 980 * \\
& m^{**3} * n + 56 * m^{**3} + 13068 * m^{**2} * n^{**6} + 39396 * m^{**2} * n^{**5} + 40614 * m^{**2} * n^{**4} + 19 \\
& 600 * m^{**2} * n^{**3} + 4830 * m^{**2} * n^{**2} + 588 * m^{**2} * n + 28 * m^{**2} + 5040 * m * n^{**7} + 26136 \\
& * m * n^{**6} + 39396 * m * n^{**5} + 27076 * m * n^{**4} + 9800 * m * n^{**3} + 1932 * m * n^{**2} + 196 * m * n \\
& + 8 * m + 5040 * n^{**7} + 13068 * n^{**6} + 13132 * n^{**5} + 6769 * n^{**4} + 1960 * n^{**3} + 322 * \\
& n^{**2} + 28 * n + 1) + 2775 * B * a^{**2} * b * d^{**3} * n^{**3} * x * x^{**5} * (e * x)^{**m} / (m^{**8} + 28 * m \\
& **7 * n + 8 * m^{**7} + 322 * m^{**6} * n^{**2} + 196 * m^{**6} * n + 28 * m^{**6} + 1960 * m^{**5} * n^{**3} + 19 \\
& 32 * m^{**5} * n^{**2} + 588 * m^{**5} * n + 56 * m^{**5} + 6769 * m^{**4} * n^{**4} + 9800 * m^{**4} * n^{**3} + 483 \\
& 0 * m^{**4} * n^{**2} + 980 * m^{**4} * n + 70 * m^{**4} + 13132 * m^{**3} * n^{**5} + 27076 * m^{**3} * n^{**4} + 19 \\
& 600 * m^{**3} * n^{**3} + 6440 * m^{**3} * n^{**2} + 980 * m^{**3} * n + 56 * m^{**3} + 13068 * m^{**2} * n^{**6} + 3 \\
& 9396 * m^{**2} * n^{**5} + 40614 * m^{**2} * n^{**4} + 19600 * m^{**2} * n^{**3} + 4830 * m^{**2} * n^{**2} + 588 * m \\
& **2 * n + 28 * m^{**2} + 5040 * m * n^{**7} + 26136 * m * n^{**6} + 39396 * m * n^{**5} + 27076 * m * n^{**4} \\
& + 9800 * m * n^{**3} + 1932 * m * n^{**2} + 196 * m * n + 8 * m + 5040 * n^{**7} + 13068 * n^{**6} + 1313 \\
& 2 * n^{**5} + 6769 * n^{**4} + 1960 * n^{**3} + 322 * n^{**2} + 28 * n + 1) + 621 * B * a^{**2} * b * d^{**3} * n \\
& **2 * x * x^{**5} * (e * x)^{**m} / (m^{**8} + 28 * m^{**7} * n + 8 * m^{**7} + 322 * m^{**6} * n^{**2} + 196 * m * \\
& **6 * n + 28 * m^{**6} + 1960 * m^{**5} * n^{**3} + 1932 * m^{**5} * n^{**2} + 588 * m^{**5} * n + 56 * m^{**5} + 6 \\
& 769 * m^{**4} * n^{**4} + 9800 * m^{**4} * n^{**3} + 4830 * m^{**4} * n^{**2} + 980 * m^{**4} * n + 70 * m^{**4} + 13 \\
& 132 * m^{**3} * n^{**5} + 27076 * m^{**3} * n^{**4} + 19600 * m^{**3} * n^{**3} + 6440 * m^{**3} * n^{**2} + 980 * m * \\
& **3 * n + 56 * m^{**3} + 13068 * m^{**2} * n^{**6} + 39396 * m^{**2} * n^{**5} + 40614 * m^{**2} * n^{**4} + 1960 \\
& 0 * m^{**2} * n^{**3} + 4830 * m^{**2} * n^{**2} + 588 * m^{**2} * n + 28 * m^{**2} + 5040 * m * n^{**7} + 26136 * m \\
& * n^{**6} + 39396 * m * n^{**5} + 27076 * m * n^{**4} + 9800 * m * n^{**3} + 1932 * m * n^{**2} + 196 * m * n + \\
& 8 * m + 5040 * n^{**7} + 13068 * n^{**6} + 13132 * n^{**5} + 6769 * n^{**4} + 1960 * n^{**3} + 322 * n * \\
& **2 + 28 * n + 1) + 69 * B * a^{**2} * b * d^{**3} * n * x * x^{**5} * (e * x)^{**m} / (m^{**8} + 28 * m^{**7} * n + \\
& 8 * m^{**7} + 322 * m^{**6} * n^{**2} + 196 * m^{**6} * n + 28 * m^{**6} + 1960 * m^{**5} * n^{**3} + 1932 * m^{**5} \\
& * n^{**2} + 588 * m^{**5} * n + 56 * m^{**5} + 6769 * m^{**4} * n^{**4} + 9800 * m^{**4} * n^{**3} + 4830 * m^{**4} * \\
& n^{**2} + 980 * m^{**4} * n + 70 * m^{**4} + 13132 * m^{**3} * n^{**5} + 27076 * m^{**3} * n^{**4} + 19600 * m^{** \\
& 3 * n^{**3} + 6440 * m^{**3} * n^{**2} + 980 * m^{**3} * n + 56 * m^{**3} + 13068 * m^{**2} * n^{**6} + 39396 * m * \\
& **2 * n^{**5} + 40614 * m^{**2} * n^{**4} + 19600 * m^{**2} * n^{**3} + 4830 * m^{**2} * n^{**2} + 588 * m^{**2} * n + \\
& 28 * m^{**2} + 5040 * m * n^{**7} + 26136 * m * n^{**6} + 39396 * m * n^{**5} + 27076 * m * n^{**4} + 9800 * \\
& m * n^{**3} + 1932 * m * n^{**2} + 196 * m * n + 8 * m + 5040 * n^{**7} + 13068 * n^{**6} + 13132 * n^{**5} \\
& + 6769 * n^{**4} + 1960 * n^{**3} + 322 * n^{**2} + 28 * n + 1) + 3 * B * a^{**2} * b * d^{**3} * x * x^{**5} * (5 * n) \\
& * (e * x)^{**m} / (m^{**8} + 28 * m^{**7} * n + 8 * m^{**7} + 322 * m^{**6} * n^{**2} + 196 * m^{**6} * n + 28 * m^{**6} \\
& + 1960 * m^{**5} * n^{**3} + 1932 * m^{**5} * n^{**2} + 588 * m^{**5} * n + 56 * m^{**5} + 6769 * m^{**4} * n^{**4} \\
& + 9800 * m^{**4} * n^{**3} + 4830 * m^{**4} * n^{**2} + 980 * m^{**4} * n + 70 * m^{**4} + 13132 * m^{**3} * n^{**5} \\
& + 27076 * m^{**3} * n^{**4} + 19600 * m^{**3} * n^{**3} + 6440 * m^{**3} * n^{**2} + 980 * m^{**3} * n + 56 * m^{**3} \\
& + 13068 * m^{**2} * n^{**6} + 39396 * m^{**2} * n^{**5} + 40614 * m^{**2} * n^{**4} + 19600 * m^{**2} * n^{**3} + \\
& 4830 * m^{**2} * n^{**2} + 588 * m^{**2} * n + 28 * m^{**2} + 5040 * m * n^{**7} + 26136 * m * n^{**6} + 39396 * \\
& m * n^{**5} + 27076 * m * n^{**4} + 9800 * m * n^{**3} + 1932 * m * n^{**2} + 196 * m * n + 8 * m + 5040 * n^{** \\
& 7} + 13068 * n^{**6} + 13132 * n^{**5} + 6769 * n^{**4} + 1960 * n^{**3} + 322 * n^{**2} + 28 * n + 1) \\
& + 3 * B * a * b^{**2} * c^{**3} * m^{**7} * x * x^{**3} * (3 * n) * (e * x)^{**m} / (m^{**8} + 28 * m^{**7} * n + 8 * m^{**7} + 32 \\
& 2 * m^{**6} * n^{**2} + 196 * m^{**6} * n + 28 * m^{**6} + 1960 * m^{**5} * n^{**3} + 1932 * m^{**5} * n^{**2} + 588 * \\
& m^{**5} * n + 56 * m^{**5} + 6769 * m^{**4} * n^{**4} + 9800 * m^{**4} * n^{**3} + 4830 * m^{**4} * n^{**2} + 980 * m
\end{aligned}$$

$$\begin{aligned}
& **4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 \\
& + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 \\
& + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 \\
& + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 \\
& + 1960*n**3 + 322*n**2 + 28*n + 1) + 75*B*a*b**2*c**3*m**6*n*x*x** (3*n)*(e*x)**m / (m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 21*B*a*b**2*c**3*m**6*x*x** (3*n)*(e*x)**m / (m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 741*B*a*b**2*c**3*m**5*n**2*x*x** (3*n)*(e*x)**m / (m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 450*B*a*b**2*c**3*m**5*n*x*x** (3*n)*(e*x)**m / (m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 63*B*a*b**2*c**3*m**5*x*x** (3*n)*(e*x)**m / (m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*
\end{aligned}$$

$$\begin{aligned}
& m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + 5040m^{*}n^{**7} + 26136m^{*}n^{**6} + 39396m^{*}n^{**5} \\
& + 27076m^{*}n^{**4} + 9800m^{*}n^{**3} + 1932m^{*}n^{**2} + 196m^{*}n + 8m + 5040n^{**7} + \\
& 13068n^{**6} + 13132n^{**5} + 6769n^{**4} + 1960n^{**3} + 322n^{**2} + 28n + 1) + 36 \\
& 57B^{*}a^{*}b^{**2}c^{**3}m^{**4}n^{**3}x^{*}x^{**}(3n)(e^{*}x)^{**}/(m^{**8} + 28m^{**7}n + 8m^{**7} + \\
& 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} + 5 \\
& 88m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} + 98 \\
& 0m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} + 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} + \\
& 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} + 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} + \\
& 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} \\
& + 5040m^{*}n^{**7} + 26136m^{*}n^{**6} + 39396m^{*}n^{**5} + 27076m^{*}n^{**4} + 9800m^{*}n^{**3} + \\
& 1932m^{*}n^{**2} + 196m^{*}n + 8m + 5040n^{**7} + 13068n^{**6} + 13132n^{**5} + 6769n^{**4} \\
& + 1960n^{**3} + 322n^{**2} + 28n + 1) + 3705B^{*}a^{*}b^{**2}c^{**3}m^{**4}n^{**2}x^{*}x^{**}(\\
& 3n)(e^{*}x)^{**}/(m^{**8} + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} \\
& + 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} \\
& + 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} \\
& + 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} \\
& + 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} \\
& + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + 5040m^{*}n^{**7} + 26136m^{*}n^{**6} + 39 \\
& 396m^{*}n^{**5} + 27076m^{*}n^{**4} + 9800m^{*}n^{**3} + 1932m^{*}n^{**2} + 196m^{*}n + 8m + 504 \\
& 0n^{**7} + 13068n^{**6} + 13132n^{**5} + 6769n^{**4} + 1960n^{**3} + 322n^{**2} + 28n \\
& + 1) + 1125B^{*}a^{*}b^{**2}c^{**3}m^{**4}n^{*}x^{*}x^{**}(3n)(e^{*}x)^{**}/(m^{**8} + 28m^{**7}n + 8m^{**7} \\
& + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} \\
& + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} \\
& + 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} + 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} \\
& + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} + 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} \\
& + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} \\
& + 5040m^{*}n^{**7} + 26136m^{*}n^{**6} + 39396m^{*}n^{**5} + 27076m^{*}n^{**4} + 9800m^{*}n^{**3} \\
& + 1932m^{*}n^{**2} + 196m^{*}n + 8m + 5040n^{**7} + 13068n^{**6} + 13132n^{**5} + 6 \\
& 769n^{**4} + 1960n^{**3} + 322n^{**2} + 28n + 1) + 105B^{*}a^{*}b^{**2}c^{**3}m^{**4}x^{*}x^{**}(\\
& 3n)(e^{*}x)^{**}/(m^{**8} + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} \\
& + 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} \\
& + 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} \\
& + 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} \\
& + 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} \\
& + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + 5040m^{*}n^{**7} + 26136m^{*}n^{**6} + 39 \\
& 396m^{*}n^{**5} + 27076m^{*}n^{**4} + 9800m^{*}n^{**3} + 1932m^{*}n^{**2} + 196m^{*}n + 8m + 504 \\
& 0n^{**7} + 13068n^{**6} + 13132n^{**5} + 6769n^{**4} + 1960n^{**3} + 322n^{**2} + 28n \\
& + 1) + 9336B^{*}a^{*}b^{**2}c^{**3}m^{**3}n^{**4}x^{*}x^{**}(3n)(e^{*}x)^{**}/(m^{**8} + 28m^{**7}n + \\
& 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**3} + 1932m^{**5} \\
& n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} \\
& + 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} + 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} \\
& + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} + 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} \\
& + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} \\
& + 5040m^{*}n^{**7} + 26136m^{*}n^{**6} + 39396m^{*}n^{**5} + 27076m^{*}n^{**4} + 9800m^{*}n^{**3} \\
& + 1932m^{*}n^{**2} + 196m^{*}n + 8m + 5040n^{**7} + 13068n^{**6} + 13132n^{**5}
\end{aligned}$$

+ 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 14628*B*a*b**2*c**3*m**3*n
 3*x*x(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m*
 *6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6
 769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13
 132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m*
 *3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 1960
 0*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m
 *n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n +
 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n*
 *2 + 28*n + 1) + 7410*B*a*b**2*c**3*m**3*n**2*x*x**(3*n)*(e*x)**m/(m**8 + 2
 8*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 +
 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 +
 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 +
 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6
 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 58
 8*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n*
 *4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 1
 3132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 1500*B*a*b**2*c*
 *3*m**3*n*x*x**(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 +
 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m*
 *5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**
 4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 +
 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4
 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 2
 6136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196
 *m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 +
 322*n**2 + 28*n + 1) + 105*B*a*b**2*c**3*m**3*x*x**(3*n)*(e*x)**m/(m**8 + 2
 8*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 +
 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 +
 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 +
 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6
 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 58
 8*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n*
 *4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 1
 3132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 11388*B*a*b**2*c
 3*m2*n**5*x*x**(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**
 2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 5
 6*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70
 *m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**
 2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n
 4 + 19600*m2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7
 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 +
 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**
 3 + 322*n**2 + 28*n + 1) + 28008*B*a*b**2*c**3*m**2*n**4*x*x**(3*n)*(e*x)**
 m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*

$$\begin{aligned}
& m^{*5}n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3} + 13068 \\
& *m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} + \\
& 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196m^{*n} + 8m + 5040n^{*7} + 130 \\
& 68n^{*6} + 13132n^{*5} + 6769n^{*4} + 1960n^{*3} + 322n^{*2} + 28n + 1) + 21942 \\
& *B*a*b^{*2}c^{*3}m^{*2}n^{*3}x^{*x}((3n)*(e^x))^{**}/(m^{*8} + 28m^{*7}n + 8m^{*7} + 3 \\
& 22m^{*6}n^{*2} + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} + 588 \\
& *m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980 \\
& m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 64 \\
& 40m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 4 \\
& 0614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + \\
& 5040m^{*n}n^{*7} + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 19 \\
& 32m^{*n}n^{*2} + 196m^{*n} + 8m + 5040n^{*7} + 13068n^{*6} + 13132n^{*5} + 6769n^{*4} \\
& + 1960n^{*3} + 322n^{*2} + 28n + 1) + 7410*B*a*b^{*2}c^{*3}m^{*2}n^{*2}x^{*x}((3n) \\
& *(e^x))^{**}/(m^{*8} + 28m^{*7}n + 8m^{*7} + 322m^{*6}n^{*2} + 196m^{*6}n + 28m^{* \\
& *6 + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} \\
& 4 + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} \\
& 5 + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980m^{*3}n + 56m^{* \\
& *3 + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 19600m^{*2}n^{*3} \\
& + 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + 26136m^{*n}n^{*6} + 3939 \\
& 6m^{*n}n^{*5} + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196m^{*n} + 8m + 5040n^{* \\
& n^{*7} + 13068n^{*6} + 13132n^{*5} + 6769n^{*4} + 1960n^{*3} + 322n^{*2} + 28n + \\
& 1) + 1125*B*a*b^{*2}c^{*3}m^{*2}n^{*x}x^{*x}((3n)*(e^x))^{**}/(m^{*8} + 28m^{*7}n + 8m^{* \\
& *7 + 322m^{*6}n^{*2} + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} \\
& + 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} \\
& + 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} \\
& 3 + 6440m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} + 39396m^{*2}n^{* \\
& *5 + 40614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588m^{*2}n + 28m \\
& **2 + 5040m^{*n}n^{*7} + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} + 27076m^{*n}n^{*4} + 9800m^{*n}n^{* \\
& 3 + 1932m^{*n}n^{*2} + 196m^{*n} + 8m + 5040n^{*7} + 13068n^{*6} + 13132n^{*5} + 676 \\
& 9n^{*4} + 1960n^{*3} + 322n^{*2} + 28n + 1) + 63*B*a*b^{*2}c^{*3}m^{*2}x^{*x}((3n) \\
& *(e^x))^{**}/(m^{*8} + 28m^{*7}n + 8m^{*7} + 322m^{*6}n^{*2} + 196m^{*6}n + 28m^{* \\
& 6 + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} \\
& + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} \\
& + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980m^{*3}n + 56m^{* \\
& 3 + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + \\
& 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + 26136m^{*n}n^{*6} + 39396 \\
& *m^{*n}n^{*5} + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196m^{*n} + 8m + 5040n^{* \\
& **7 + 13068n^{*6} + 13132n^{*5} + 6769n^{*4} + 1960n^{*3} + 322n^{*2} + 28n + 1 \\
&) + 5040*B*a*b^{*2}c^{*3}m^{*n}n^{*6}x^{*x}((3n)*(e^x))^{**}/(m^{*8} + 28m^{*7}n + 8m^{* \\
& 7 + 322m^{*6}n^{*2} + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} \\
& + 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + \\
& 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3}
\end{aligned}$$

$$\begin{aligned}
& + 6440*m^{*3}*n^{*2} + 980*m^{*3}*n + 56*m^{*3} + 13068*m^{*2}*n^{*6} + 39396*m^{*2}*n^{*5} \\
& + 40614*m^{*2}*n^{*4} + 19600*m^{*2}*n^{*3} + 4830*m^{*2}*n^{*2} + 588*m^{*2}*n + 28*m^{*2} \\
& + 5040*m*n^{*7} + 26136*m*n^{*6} + 39396*m*n^{*5} + 27076*m*n^{*4} + 9800*m*n^{*3} \\
& + 1932*m*n^{*2} + 196*m*n + 8*m + 5040*n^{*7} + 13068*n^{*6} + 13132*n^{*5} + 6769 \\
& *n^{*4} + 1960*n^{*3} + 322*n^{*2} + 28*n + 1) + 22776*B*a*b^{*2}*c^{*3}*m^{*n^{*5}}*x*x^{*3} \\
& (3*n)*(e*x)^{*m}/(m^{*8} + 28*m^{*7}*n + 8*m^{*7} + 322*m^{*6}*n^{*2} + 196*m^{*6}*n + 28 \\
& *m^{*6} + 1960*m^{*5}*n^{*3} + 1932*m^{*5}*n^{*2} + 588*m^{*5}*n + 56*m^{*5} + 6769*m^{*4}*n^{*4} \\
& + 9800*m^{*4}*n^{*3} + 4830*m^{*4}*n^{*2} + 980*m^{*4}*n + 70*m^{*4} + 13132*m^{*3}*n^{*5} \\
& + 27076*m^{*3}*n^{*4} + 19600*m^{*3}*n^{*3} + 6440*m^{*3}*n^{*2} + 980*m^{*3}*n + 56 \\
& *m^{*3} + 13068*m^{*2}*n^{*6} + 39396*m^{*2}*n^{*5} + 40614*m^{*2}*n^{*4} + 19600*m^{*2}*n^{*3} \\
& + 4830*m^{*2}*n^{*2} + 588*m^{*2}*n + 28*m^{*2} + 5040*m*n^{*7} + 26136*m*n^{*6} + 3 \\
& 9396*m*n^{*5} + 27076*m*n^{*4} + 9800*m*n^{*3} + 1932*m*n^{*2} + 196*m*n + 8*m + 50 \\
& 40*n^{*7} + 13068*n^{*6} + 13132*n^{*5} + 6769*n^{*4} + 1960*n^{*3} + 322*n^{*2} + 28*n \\
& + 1) + 28008*B*a*b^{*2}*c^{*3}*m^{*n^{*4}}*x*x^{*3}(3*n)*(e*x)^{*m}/(m^{*8} + 28*m^{*7}*n + \\
& 8*m^{*7} + 322*m^{*6}*n^{*2} + 196*m^{*6}*n + 28*m^{*6} + 1960*m^{*5}*n^{*3} + 1932*m^{*5}*n^{*2} \\
& + 588*m^{*5}*n + 56*m^{*5} + 6769*m^{*4}*n^{*4} + 9800*m^{*4}*n^{*3} + 4830*m^{*4}*n^{*2} \\
& + 980*m^{*4}*n + 70*m^{*4} + 13132*m^{*3}*n^{*5} + 27076*m^{*3}*n^{*4} + 19600*m^{*3} \\
& *n^{*3} + 6440*m^{*3}*n^{*2} + 980*m^{*3}*n + 56*m^{*3} + 13068*m^{*2}*n^{*6} + 39396*m^{*2} \\
& *n^{*5} + 40614*m^{*2}*n^{*4} + 19600*m^{*2}*n^{*3} + 4830*m^{*2}*n^{*2} + 588*m^{*2}*n + \\
& 28*m^{*2} + 5040*m*n^{*7} + 26136*m*n^{*6} + 39396*m*n^{*5} + 27076*m*n^{*4} + 9800*m \\
& *n^{*3} + 1932*m*n^{*2} + 196*m*n + 8*m + 5040*n^{*7} + 13068*n^{*6} + 13132*n^{*5} + \\
& 6769*n^{*4} + 1960*n^{*3} + 322*n^{*2} + 28*n + 1) + 14628*B*a*b^{*2}*c^{*3}*m^{*n^{*3}}* \\
& x*x^{*3}(3*n)*(e*x)^{*m}/(m^{*8} + 28*m^{*7}*n + 8*m^{*7} + 322*m^{*6}*n^{*2} + 196*m^{*6}*n \\
& + 28*m^{*6} + 1960*m^{*5}*n^{*3} + 1932*m^{*5}*n^{*2} + 588*m^{*5}*n + 56*m^{*5} + 6769* \\
& m^{*4}*n^{*4} + 9800*m^{*4}*n^{*3} + 4830*m^{*4}*n^{*2} + 980*m^{*4}*n + 70*m^{*4} + 13132* \\
& m^{*3}*n^{*5} + 27076*m^{*3}*n^{*4} + 19600*m^{*3}*n^{*3} + 6440*m^{*3}*n^{*2} + 980*m^{*3}*n \\
& + 56*m^{*3} + 13068*m^{*2}*n^{*6} + 39396*m^{*2}*n^{*5} + 40614*m^{*2}*n^{*4} + 19600*m \\
& *2*n^{*3} + 4830*m^{*2}*n^{*2} + 588*m^{*2}*n + 28*m^{*2} + 5040*m*n^{*7} + 26136*m*n^{*6} \\
& + 39396*m*n^{*5} + 27076*m*n^{*4} + 9800*m*n^{*3} + 1932*m*n^{*2} + 196*m*n + 8*m \\
& + 5040*n^{*7} + 13068*n^{*6} + 13132*n^{*5} + 6769*n^{*4} + 1960*n^{*3} + 322*n^{*2} + \\
& 28*n + 1) + 3705*B*a*b^{*2}*c^{*3}*m^{*n^{*2}}*x*x^{*3}(3*n)*(e*x)^{*m}/(m^{*8} + 28*m^{*7}* \\
& n + 8*m^{*7} + 322*m^{*6}*n^{*2} + 196*m^{*6}*n + 28*m^{*6} + 1960*m^{*5}*n^{*3} + 1932*m \\
& *5*n^{*2} + 588*m^{*5}*n + 56*m^{*5} + 6769*m^{*4}*n^{*4} + 9800*m^{*4}*n^{*3} + 4830*m \\
& *4*n^{*2} + 980*m^{*4}*n + 70*m^{*4} + 13132*m^{*3}*n^{*5} + 27076*m^{*3}*n^{*4} + 19600* \\
& m^{*3}*n^{*3} + 6440*m^{*3}*n^{*2} + 980*m^{*3}*n + 56*m^{*3} + 13068*m^{*2}*n^{*6} + 39396 \\
& *m^{*2}*n^{*5} + 40614*m^{*2}*n^{*4} + 19600*m^{*2}*n^{*3} + 4830*m^{*2}*n^{*2} + 588*m^{*2}*n \\
& + 28*m^{*2} + 5040*m*n^{*7} + 26136*m*n^{*6} + 39396*m*n^{*5} + 27076*m*n^{*4} + 98 \\
& 00*m*n^{*3} + 1932*m*n^{*2} + 196*m*n + 8*m + 5040*n^{*7} + 13068*n^{*6} + 13132*n^{*5} \\
& + 6769*n^{*4} + 1960*n^{*3} + 322*n^{*2} + 28*n + 1) + 450*B*a*b^{*2}*c^{*3}*m^{*n}*x \\
& *x^{*3}(3*n)*(e*x)^{*m}/(m^{*8} + 28*m^{*7}*n + 8*m^{*7} + 322*m^{*6}*n^{*2} + 196*m^{*6}*n \\
& + 28*m^{*6} + 1960*m^{*5}*n^{*3} + 1932*m^{*5}*n^{*2} + 588*m^{*5}*n + 56*m^{*5} + 6769*m \\
& *4*n^{*4} + 9800*m^{*4}*n^{*3} + 4830*m^{*4}*n^{*2} + 980*m^{*4}*n + 70*m^{*4} + 13132*m \\
& *3*n^{*5} + 27076*m^{*3}*n^{*4} + 19600*m^{*3}*n^{*3} + 6440*m^{*3}*n^{*2} + 980*m^{*3}*n \\
& + 56*m^{*3} + 13068*m^{*2}*n^{*6} + 39396*m^{*2}*n^{*5} + 40614*m^{*2}*n^{*4} + 19600*m^{*2} \\
& *n^{*3} + 4830*m^{*2}*n^{*2} + 588*m^{*2}*n + 28*m^{*2} + 5040*m*n^{*7} + 26136*m*n^{*6}
\end{aligned}$$

$$\begin{aligned}
& + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m \\
& + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + \\
& 28*n + 1) + 21*B*a*b**2*c**3*m*x*x**(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m* \\
& *7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 \\
& + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 \\
& + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n** \\
& 3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n** \\
& *5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m \\
& **2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n** \\
& 3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 676 \\
& 9*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 5040*B*a*b**2*c**3*n**6*x*x**(3 \\
& *n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m \\
& **6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n* \\
& *4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n* \\
& *5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m \\
& **3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 \\
& + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 393 \\
& 96*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040 \\
& *n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + \\
& 1) + 11388*B*a*b**2*c**3*n**5*x*x**(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m* \\
& *7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 \\
& + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 \\
& + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n** \\
& 3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n** \\
& *5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m \\
& **2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n** \\
& 3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 676 \\
& 9*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 9336*B*a*b**2*c**3*n**4*x*x**(3 \\
& *n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m \\
& **6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n* \\
& *4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n* \\
& *5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m \\
& **3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 \\
& + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 393 \\
& 96*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040 \\
& *n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + \\
& 1) + 3657*B*a*b**2*c**3*n**3*x*x**(3*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m** \\
& 7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 \\
& + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + \\
& 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 \\
& + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n** \\
& 5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m* \\
& *2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 \\
& + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769 \\
& *n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 741*B*a*b**2*c**3*n**2*x*x**(3*n
\end{aligned}$$

$$\begin{aligned}
&)*(e^x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m** \\
& 6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 \\
& + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 \\
& + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m** \\
& 3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + \\
& 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396 \\
& *m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n \\
& **7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1 \\
&) + 75*B*a*b**2*c**3*n*x*x**(3*n)*(e^x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322 \\
& *m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m \\
& **5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m* \\
& **4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440 \\
& *m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 406 \\
& 14*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 50 \\
& 40*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932 \\
& *m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + \\
& 1960*n**3 + 322*n**2 + 28*n + 1) + 3*B*a*b**2*c**3*x*x**(3*n)*(e^x)**m/(m \\
& *8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5* \\
& n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n \\
& **3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3* \\
& n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2 \\
& *n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n** \\
& 2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 2707 \\
& 6*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n* \\
& **6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 9*B*a*b**2 \\
& *c**2*d*m**7*x*x**(4*n)*(e^x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 \\
& + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56 \\
& *m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70* \\
& m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 \\
& + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n* \\
& **4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 \\
& + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + \\
& 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 \\
& + 322*n**2 + 28*n + 1) + 216*B*a*b**2*c**2*d*m**6*n*x*x**(4*n)*(e^x)**m/(m \\
& **8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5 \\
& *n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4* \\
& n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3 \\
& *n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m** \\
& 2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n* \\
& **2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 270 \\
& 76*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n \\
& **6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 63*B*a*b* \\
& **2*c**2*d*m**6*x*x**(4*n)*(e^x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n* \\
& **2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + \\
& 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 7
\end{aligned}$$

$m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + 5040m^n n^{**7} + 26136m^n$
 $^{**6} + 39396m^n n^{**5} + 27076m^n n^{**4} + 9800m^n n^{**3} + 1932m^n n^{**2} + 196m^n + 8$
 $m + 5040n^{**7} + 13068n^{**6} + 13132n^{**5} + 6769n^{**4} + 1960n^{**3} + 322n^{**2}$
 $+ 28n + 1) + 3240B^*a^*b^{**2}c^{**2}d^*m^{**4}n^*x^*x^{**}(4n)^*(e^*x)^{**}/(m^{**8} + 28m$
 $^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**3} + 19$
 $32m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**3} + 483$
 $0m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} + 27076m^{**3}n^{**4} + 19$
 $600m^{**3}n^{**3} + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} + 13068m^{**2}n^{**6} + 3$
 $9396m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588m$
 $^{**2}n + 28m^{**2} + 5040m^n n^{**7} + 26136m^n n^{**6} + 39396m^n n^{**5} + 27076m^n n^{**4}$
 $+ 9800m^n n^{**3} + 1932m^n n^{**2} + 196m^n + 8m + 5040n^{**7} + 13068n^{**6} + 1313$
 $2n^{**5} + 6769n^{**4} + 1960n^{**3} + 322n^{**2} + 28n + 1) + 315B^*a^*b^{**2}c^{**2}d^*$
 $m^{**4}x^*x^{**}(4n)^*(e^*x)^{**}/(m^{**8} + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196$
 $m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} +$
 $6769m^{**4}n^{**4} + 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} +$
 $13132m^{**3}n^{**5} + 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} + 980$
 $m^{**3}n + 56m^{**3} + 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19$
 $600m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + 5040m^n n^{**7} + 26136$
 $m^n n^{**6} + 39396m^n n^{**5} + 27076m^n n^{**4} + 9800m^n n^{**3} + 1932m^n n^{**2} + 196m^n$
 $+ 8m + 5040n^{**7} + 13068n^{**6} + 13132n^{**5} + 6769n^{**4} + 1960n^{**3} + 322$
 $n^{**2} + 28n + 1) + 22905B^*a^*b^{**2}c^{**2}d^*m^{**3}n^{**4}x^*x^{**}(4n)^*(e^*x)^{**}/(m^{**8}$
 $+ 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} + 1960m^{**5}n$
 $^{**3} + 1932m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**3}$
 $+ 4830m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} + 27076m^{**3}n$
 $^{**4} + 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} + 13068m^{**2}$
 $n^{**6} + 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2}$
 $+ 588m^{**2}n + 28m^{**2} + 5040m^n n^{**7} + 26136m^n n^{**6} + 39396m^n n^{**5} + 27076$
 $m^n n^{**4} + 9800m^n n^{**3} + 1932m^n n^{**2} + 196m^n + 8m + 5040n^{**7} + 13068n^{**6}$
 $+ 13132n^{**5} + 6769n^{**4} + 1960n^{**3} + 322n^{**2} + 28n + 1) + 38016B^*a^*b$
 $^{**2}c^{**2}d^*m^{**3}n^{**3}x^*x^{**}(4n)^*(e^*x)^{**}/(m^{**8} + 28m^{**7}n + 8m^{**7} + 322m$
 $^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} + 588m^{**5}$
 $n + 56m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} + 980m^{**4}$
 $n + 70m^{**4} + 13132m^{**3}n^{**5} + 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} + 6440m$
 $^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} + 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} + 40614$
 $m^{**2}n^{**4} + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + 5040$
 $m^n n^{**7} + 26136m^n n^{**6} + 39396m^n n^{**5} + 27076m^n n^{**4} + 9800m^n n^{**3} + 1932m$
 $n^{**2} + 196m^n + 8m + 5040n^{**7} + 13068n^{**6} + 13132n^{**5} + 6769n^{**4} + 1$
 $960n^{**3} + 322n^{**2} + 28n + 1) + 20340B^*a^*b^{**2}c^{**2}d^*m^{**3}n^{**2}x^*x^{**}(4n)$
 $)*(e^*x)^{**}/(m^{**8} + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6}$
 $+ 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4}$
 $+ 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5}$
 $+ 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3}$
 $+ 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} +$
 $4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + 5040m^n n^{**7} + 26136m^n n^{**6} + 39396$
 $m^n n^{**5} + 27076m^n n^{**4} + 9800m^n n^{**3} + 1932m^n n^{**2} + 196m^n + 8m + 5040n$

$$\begin{aligned}
& **7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1 \\
&) + 4320*B*a*b**2*c**2*d*m**3*n*x*x**(4*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m \\
& **7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n** \\
& 2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 \\
& + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n* \\
& *3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n \\
& **5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28* \\
& m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n* \\
& *3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 67 \\
& 69*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 315*B*a*b**2*c**2*d*m**3*x*x** \\
& (4*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28 \\
& *m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4* \\
& n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3* \\
& n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56 \\
& *m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n* \\
& *3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 3 \\
& 9396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 50 \\
& 40*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n \\
& + 1) + 26568*B*a*b**2*c**2*d*m**2*n**5*x*x**(4*n)*(e*x)**m/(m**8 + 28*m**7 \\
& *n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932* \\
& m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m \\
& **4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600 \\
& *m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 3939 \\
& 6*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2 \\
& *n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9 \\
& 800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n \\
& **5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 68715*B*a*b**2*c**2*d* \\
& m**2*n**4*x*x**(4*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + \\
& 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m* \\
& *5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m** \\
& 4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + \\
& 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 \\
& + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 2 \\
& 6136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196 \\
& *m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + \\
& 322*n**2 + 28*n + 1) + 57024*B*a*b**2*c**2*d*m**2*n**3*x*x**(4*n)*(e*x)**m/ \\
& (m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m* \\
& *5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m** \\
& 4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m* \\
& *3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m \\
& **2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2* \\
& n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 2 \\
& 7076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068 \\
& *n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 20340*B \\
& *a*b**2*c**2*d*m**2*n**2*x*x**(4*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 3
\end{aligned}$$

$$\begin{aligned}
& 22m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588 \\
& m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980 \\
& m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 64 \\
& 40m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 4 \\
& 0614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + \\
& 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 19 \\
& 32mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 \\
& + 1960n^3 + 322n^2 + 28n + 1) + 3240B^2c^2d^2n^4x^4(4n \\
&)*(e^x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 \\
& + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 \\
& + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 \\
& + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 \\
& + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + \\
& 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396 \\
& mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n \\
& ^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1 \\
&) + 189B^2c^2d^2n^4x^4(4n)*(e^x)^m/(m^8 + 28m^7n + 8m^7 \\
& + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + \\
& 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + \\
& 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 \\
& + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 \\
& + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 \\
& + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 \\
& + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769 \\
& n^4 + 1960n^3 + 322n^2 + 28n + 1) + 11340B^2c^2d^2n^6x^6(4n) \\
& *(e^x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 2 \\
& 8m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4 \\
& n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3 \\
& n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 5 \\
& 6m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n \\
& ^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + \\
& 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5 \\
& 040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28 \\
& n + 1) + 53136B^2c^2d^2n^5x^5(4n)*(e^x)^m/(m^8 + 28m^7n \\
& + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^ \\
& ^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^ \\
& ^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m \\
& ^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m \\
& ^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n \\
& + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 980 \\
& 0mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^ \\
& ^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 68715B^2c^2d^2m \\
& n^4x^4(4n)*(e^x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m \\
& ^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + \\
& 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 1
\end{aligned}$$

$$\begin{aligned}
& + 588m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} + 27076 \\
& m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196m^{*n} + 8m + 5040n^{*7} + 13068n^{*6} \\
& + 13132n^{*5} + 6769n^{*4} + 1960n^{*3} + 322n^{*2} + 28n + 1) + 26568B^{*a}b^{*b} \\
& **2c^{*2}d^{*n}n^{*5}x^{*x}*(4n)*(e^{*x})^{*m}/(m^{*8} + 28m^{*7}n + 8m^{*7} + 322m^{*6}n \\
& **2 + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5}n + \\
& 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n + \\
& 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3}n \\
& **2 + 980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m^{*2} \\
& n^{*4} + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*n} \\
& *7 + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} \\
& + 196m^{*n} + 8m + 5040n^{*7} + 13068n^{*6} + 13132n^{*5} + 6769n^{*4} + 1960n \\
& **3 + 322n^{*2} + 28n + 1) + 22905B^{*a}b^{*b}**2c^{*2}d^{*n}n^{*4}x^{*x}*(4n)*(e^{*x})^{*m} \\
& /(m^{*8} + 28m^{*7}n + 8m^{*7} + 322m^{*6}n^{*2} + 196m^{*6}n + 28m^{*6} + 1960m \\
& **5n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4} \\
& n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} + 27076m \\
& **3n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3} + 13068m \\
& **2n^{*6} + 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + 4830m^{*2} \\
& n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} + \\
& 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196m^{*n} + 8m + 5040n^{*7} + 1306 \\
& 8n^{*6} + 13132n^{*5} + 6769n^{*4} + 1960n^{*3} + 322n^{*2} + 28n + 1) + 9504B^{*a} \\
& b^{*b}**2c^{*2}d^{*n}n^{*3}x^{*x}*(4n)*(e^{*x})^{*m}/(m^{*8} + 28m^{*7}n + 8m^{*7} + 322m^{*6} \\
& n^{*2} + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5} \\
& n + 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n \\
& + 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3} \\
& n^{*2} + 980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m \\
& **2n^{*4} + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m \\
& n^{*7} + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n} \\
& n^{*2} + 196m^{*n} + 8m + 5040n^{*7} + 13068n^{*6} + 13132n^{*5} + 6769n^{*4} + 19 \\
& 60n^{*3} + 322n^{*2} + 28n + 1) + 2034B^{*a}b^{*b}**2c^{*2}d^{*n}n^{*2}x^{*x}*(4n)*(e^{*x}) \\
& **m/(m^{*8} + 28m^{*7}n + 8m^{*7} + 322m^{*6}n^{*2} + 196m^{*6}n + 28m^{*6} + 196 \\
& 0m^{*5}n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} + 9800 \\
& m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} + 2707 \\
& 6m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3} + 130 \\
& 68m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + 4830m \\
& **2n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} \\
& + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196m^{*n} + 8m + 5040n^{*7} + 1 \\
& 3068n^{*6} + 13132n^{*5} + 6769n^{*4} + 1960n^{*3} + 322n^{*2} + 28n + 1) + 216 \\
& B^{*a}b^{*b}**2c^{*2}d^{*n}x^{*x}*(4n)*(e^{*x})^{*m}/(m^{*8} + 28m^{*7}n + 8m^{*7} + 322m^{*6} \\
& n^{*2} + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5}n \\
& + 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n \\
& + 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3} \\
& n^{*2} + 980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m \\
& **2n^{*4} + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m \\
& n^{*7} + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n} \\
& **2 + 196m^{*n} + 8m + 5040n^{*7} + 13068n^{*6} + 13132n^{*5} + 6769n^{*4} + 196
\end{aligned}$$

$$\begin{aligned}
& 0n^{**3} + 322n^{**2} + 28n + 1) + 9B^*a^*b^{**2}c^{**2}d^*x^*x^{**}(4n)^*(e^*x)^{**}m/(m^{**8} \\
& + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**} \\
& *3 + 1932m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**} \\
& 3 + 4830m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} + 27076m^{**3}n^{**} \\
& *4 + 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} + 13068m^{**2}n^{**} \\
& **6 + 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} \\
& + 588m^{**2}n + 28m^{**2} + 5040m^*n^{**7} + 26136m^*n^{**6} + 39396m^*n^{**5} + 27076^* \\
& m^*n^{**4} + 9800m^*n^{**3} + 1932m^*n^{**2} + 196m^*n + 8m + 5040n^{**7} + 13068n^{**6} \\
& + 13132n^{**5} + 6769n^{**4} + 1960n^{**3} + 322n^{**2} + 28n + 1) + 9B^*a^*b^{**2}c^* \\
& d^{**2}m^{**7}x^*x^{**}(5n)^*(e^*x)^{**}m/(m^{**8} + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + \\
& 196m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} + 588m^{**5}n + 56m^{**} \\
& **5 + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} + 980m^{**4}n + 70m^* \\
& **4 + 13132m^{**3}n^{**5} + 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} + \\
& 980m^{**3}n + 56m^{**3} + 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} \\
& + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + 5040m^*n^{**7} + \\
& 26136m^*n^{**6} + 39396m^*n^{**5} + 27076m^*n^{**4} + 9800m^*n^{**3} + 1932m^*n^{**2} + 19 \\
& 6m^*n + 8m + 5040n^{**7} + 13068n^{**6} + 13132n^{**5} + 6769n^{**4} + 1960n^{**3} + \\
& 322n^{**2} + 28n + 1) + 207B^*a^*b^{**2}c^*d^{**2}m^{**6}n^*x^*x^{**}(5n)^*(e^*x)^{**}m/(m^{**} \\
& 8 + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**} \\
& **3 + 1932m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**} \\
& *3 + 4830m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} + 27076m^{**3}n^{**} \\
& **4 + 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} + 13068m^{**2}n^{**} \\
& n^{**6} + 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} \\
& + 588m^{**2}n + 28m^{**2} + 5040m^*n^{**7} + 26136m^*n^{**6} + 39396m^*n^{**5} + 27076^* \\
& m^*n^{**4} + 9800m^*n^{**3} + 1932m^*n^{**2} + 196m^*n + 8m + 5040n^{**7} + 13068n^{**} \\
& 6 + 13132n^{**5} + 6769n^{**4} + 1960n^{**3} + 322n^{**2} + 28n + 1) + 63B^*a^*b^{**2} \\
& c^*d^{**2}m^{**6}x^*x^{**}(5n)^*(e^*x)^{**}m/(m^{**8} + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} \\
& + 196m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} + 588m^{**5}n + 56 \\
& m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} + 980m^{**4}n + 70^* \\
& m^{**4} + 13132m^{**3}n^{**5} + 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} \\
& + 980m^{**3}n + 56m^{**3} + 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} + 40614m^{**2}n^* \\
& **4 + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + 5040m^*n^{**7} \\
& + 26136m^*n^{**6} + 39396m^*n^{**5} + 27076m^*n^{**4} + 9800m^*n^{**3} + 1932m^*n^{**2} + \\
& 196m^*n + 8m + 5040n^{**7} + 13068n^{**6} + 13132n^{**5} + 6769n^{**4} + 1960n^{**3} \\
& + 322n^{**2} + 28n + 1) + 1863B^*a^*b^{**2}c^*d^{**2}m^{**5}n^{**2}x^*x^{**}(5n)^*(e^*x)^{**} \\
& m/(m^{**8} + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} + 1960^* \\
& m^{**5}n^{**3} + 1932m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**} \\
& **4n^{**3} + 4830m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} + 27076^* \\
& m^{**3}n^{**4} + 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} + 13068^* \\
& m^{**2}n^{**6} + 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} + 4830m^{**} \\
& 2n^{**2} + 588m^{**2}n + 28m^{**2} + 5040m^*n^{**7} + 26136m^*n^{**6} + 39396m^*n^{**5} + \\
& 27076m^*n^{**4} + 9800m^*n^{**3} + 1932m^*n^{**2} + 196m^*n + 8m + 5040n^{**7} + 130 \\
& 68n^{**6} + 13132n^{**5} + 6769n^{**4} + 1960n^{**3} + 322n^{**2} + 28n + 1) + 1242^* \\
& B^*a^*b^{**2}c^*d^{**2}m^{**5}n^*x^*x^{**}(5n)^*(e^*x)^{**}m/(m^{**8} + 28m^{**7}n + 8m^{**7} + 322 \\
& m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} + 588m
\end{aligned}$$

$$\begin{aligned}
& **5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m* \\
& *4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440 \\
& *m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 406 \\
& 14*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 50 \\
& 40*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932 \\
& *m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + \\
& 1960*n**3 + 322*n**2 + 28*n + 1) + 189*B*a*b**2*c*d**2*m**5*x*x**(5*n)*(e \\
& x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1 \\
& 960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 98 \\
& 00*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27 \\
& 076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 1 \\
& 3068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830 \\
& *m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n* \\
& *5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + \\
& 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 8 \\
& 325*B*a*b**2*c*d**2*m**4*n**3*x*x**(5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m** \\
& 7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 \\
& + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + \\
& 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 \\
& + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n** \\
& 5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m* \\
& *2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 \\
& + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769 \\
& *n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 9315*B*a*b**2*c*d**2*m**4*n**2*x \\
& *x**(5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n \\
& + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m \\
& **4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m \\
& **3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n \\
& + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m** \\
& 2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 \\
& + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m \\
& + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + \\
& 28*n + 1) + 3105*B*a*b**2*c*d**2*m**4*n*x*x**(5*n)*(e*x)**m/(m**8 + 28*m**7 \\
& *n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932* \\
& m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m \\
& **4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600 \\
& *m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 3939 \\
& 6*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2 \\
& *n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9 \\
& 800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n \\
& **5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 315*B*a*b**2*c*d**2*m* \\
& *4*x*x**(5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m** \\
& 6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 67 \\
& 69*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 131 \\
& 32*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**
\end{aligned}$$

$3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600$
 $*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*$
 $n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n +$
 $8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**$
 $2 + 28*n + 1) + 19296*B*a*b**2*c*d**2*m**3*n**4*x*x**(5*n)*(e*x)**m/(m**8 +$
 $28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3$
 $+ 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3$
 $+ 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4$
 $+ 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**$
 $6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 +$
 $588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*$
 $n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 +$
 $13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 33300*B*a*b**2$
 $*c*d**2*m**3*n**3*x*x**(5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6$
 $*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n$
 $+ 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n$
 $+ 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3$
 $*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m*$
 $*2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*$
 $n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n*$
 $*2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960$
 $*n**3 + 322*n**2 + 28*n + 1) + 18630*B*a*b**2*c*d**2*m**3*n**2*x*x**(5*n)*($
 $e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 +$
 $1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 +$
 $9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 +$
 $27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 +$
 $13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 48$
 $30*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*$
 $n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7$
 $+ 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) +$
 $4140*B*a*b**2*c*d**2*m**3*n*x*x**(5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7$
 $+ 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 +$
 $588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 +$
 $980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3$
 $+ 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5$
 $+ 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**$
 $2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3$
 $+ 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*$
 $n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 315*B*a*b**2*c*d**2*m**3*x*x**(5*$
 $n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m*$
 $**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**$
 $4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**$
 $5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m*$
 $*3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3$
 $+ 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 3939$

$$\begin{aligned}
& 6*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040* \\
& n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + \\
& 1) + 21708*B*a*b**2*c*d**2*m**2*n**5*x*x***(5*n)*(e*x)**m/(m**8 + 28*m**7*n \\
& + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m** \\
& 5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4 \\
& *n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m \\
& **3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m \\
& **2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n \\
& + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800 \\
& *m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 \\
& + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 57888*B*a*b**2*c*d**2*m** \\
& 2*n**4*x*x***(5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196 \\
& *m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 \\
& + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + \\
& 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980 \\
& *m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 1 \\
& 9600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 2613 \\
& 6*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m* \\
& n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322 \\
& *n**2 + 28*n + 1) + 49950*B*a*b**2*c*d**2*m**2*n**3*x*x***(5*n)*(e*x)**m/(m \\
& *8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5* \\
& n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n \\
& **3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3* \\
& n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2 \\
& *n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n** \\
& 2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 2707 \\
& 6*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n* \\
& *6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 18630*B*a* \\
& b**2*c*d**2*m**2*n**2*x*x***(5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322* \\
& m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m* \\
& *5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m** \\
& 4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440* \\
& m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 4061 \\
& 4*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 504 \\
& 0*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932* \\
& m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + \\
& 1960*n**3 + 322*n**2 + 28*n + 1) + 3105*B*a*b**2*c*d**2*m**2*n*x*x***(5*n)*(\\
& e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + \\
& 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + \\
& 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + \\
& 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + \\
& 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 48 \\
& 30*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m* \\
& n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 \\
& + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) +
\end{aligned}$$

$$\begin{aligned}
& 189*B*a*b**2*c*d**2*m**2*x*x**(5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + \\
& 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 58 \\
& 8*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980 \\
& *m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6 \\
& 440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + \\
& 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + \\
& 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1 \\
& 932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n** \\
& 4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 9072*B*a*b**2*c*d**2*m*n**6*x*x**(5* \\
& n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m* \\
& *6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n** \\
& 4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n** \\
& 5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m* \\
& *3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 \\
& + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 3939 \\
& 6*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040* \\
& n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + \\
& 1) + 43416*B*a*b**2*c*d**2*m*n**5*x*x**(5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8 \\
& *m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n \\
& **2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n* \\
& *2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3* \\
& n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2 \\
& *n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 2 \\
& 8*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m* \\
& n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + \\
& 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 57888*B*a*b**2*c*d**2*m*n**4 \\
& *x*x**(5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6* \\
& n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769 \\
& *m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132 \\
& *m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3* \\
& n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m \\
& **2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n* \\
& *6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8* \\
& m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 \\
& + 28*n + 1) + 33300*B*a*b**2*c*d**2*m*n**3*x*x**(5*n)*(e*x)**m/(m**8 + 28*m \\
& **7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 19 \\
& 32*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 483 \\
& 0*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19 \\
& 600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 3 \\
& 9396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m \\
& **2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 \\
& + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 1313 \\
& 2*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 9315*B*a*b**2*c*d** \\
& 2*m*n**2*x*x**(5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 1 \\
& 96*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**
\end{aligned}$$

$5 + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4}$
 $+ 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 9$
 $80m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} +$
 $19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + 26$
 $136m^{*n}n^{*6} + 39396m^{*n}n^{*5} + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196*$
 $m^{*n} + 8m + 5040n^{*7} + 13068n^{*6} + 13132n^{*5} + 6769n^{*4} + 1960n^{*3} + 3$
 $22n^{*2} + 28n + 1) + 1242B^{*a}b^{*2}c^{*d}m^{*n}x^{*x}(5n)(e^x)^{**}/(m^{*8} +$
 $28m^{*7}n + 8m^{*7} + 322m^{*6}n^{*2} + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3}$
 $+ 1932m^{*5}n^{*2} + 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} +$
 $4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4}$
 $+ 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6}$
 $+ 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 5$
 $88m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} + 27076m^{*n}$
 $^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196m^{*n} + 8m + 5040n^{*7} + 13068n^{*6} +$
 $13132n^{*5} + 6769n^{*4} + 1960n^{*3} + 322n^{*2} + 28n + 1) + 63B^{*a}b^{*2}c^{*d}$
 $^{*2}m^{*n}x^{*x}(5n)(e^x)^{**}/(m^{*8} + 28m^{*7}n + 8m^{*7} + 322m^{*6}n^{*2} + 196*$
 $m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5}n + 56m^{*5} +$
 $6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} +$
 $13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980*$
 $m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 19$
 $600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + 26136$
 $m^{*n}n^{*6} + 39396m^{*n}n^{*5} + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196m^{*n}$
 $+ 8m + 5040n^{*7} + 13068n^{*6} + 13132n^{*5} + 6769n^{*4} + 1960n^{*3} + 322*$
 $n^{*2} + 28n + 1) + 9072B^{*a}b^{*2}c^{*d}m^{*n}x^{*x}(5n)(e^x)^{**}/(m^{*8} + 28$
 $m^{*7}n + 8m^{*7} + 322m^{*6}n^{*2} + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} +$
 $1932m^{*5}n^{*2} + 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4$
 $830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} +$
 $19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} +$
 $39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588$
 $m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} + 27076m^{*n}n^{*4}$
 $+ 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196m^{*n} + 8m + 5040n^{*7} + 13068n^{*6} + 13$
 $132n^{*5} + 6769n^{*4} + 1960n^{*3} + 322n^{*2} + 28n + 1) + 21708B^{*a}b^{*2}c^{*d}$
 $^{*2}m^{*n}x^{*x}(5n)(e^x)^{**}/(m^{*8} + 28m^{*7}n + 8m^{*7} + 322m^{*6}n^{*2} +$
 $196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5}n + 56m^{*5}$
 $+ 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4}$
 $+ 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} +$
 $980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4}$
 $+ 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + 2$
 $6136m^{*n}n^{*6} + 39396m^{*n}n^{*5} + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196$
 $m^{*n} + 8m + 5040n^{*7} + 13068n^{*6} + 13132n^{*5} + 6769n^{*4} + 1960n^{*3} +$
 $322n^{*2} + 28n + 1) + 19296B^{*a}b^{*2}c^{*d}m^{*n}x^{*x}(5n)(e^x)^{**}/(m^{*8}$
 $+ 28m^{*7}n + 8m^{*7} + 322m^{*6}n^{*2} + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3}$
 $+ 1932m^{*5}n^{*2} + 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3}$
 $+ 4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4}$
 $+ 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6}$

$$\begin{aligned}
& **6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 \\
& + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076* \\
& m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 \\
& + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 8325*B*a*b** \\
& 2*c*d**2*n**3*x*x**(5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n** \\
& 2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 5 \\
& 6*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70 \\
& *m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n** \\
& 2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n \\
& **4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 \\
& + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + \\
& 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n** \\
& 3 + 322*n**2 + 28*n + 1) + 1863*B*a*b**2*c*d**2*n**2*x*x**(5*n)*(e*x)**m/(m \\
& **8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5 \\
& *n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4* \\
& n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3 \\
& *n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m** \\
& 2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n* \\
& *2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 270 \\
& 76*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n \\
& **6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 207*B*a*b \\
& **2*c*d**2*n*x*x**(5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 \\
& + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56 \\
& *m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70* \\
& m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 \\
& + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n* \\
& **4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 \\
& + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + \\
& 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 \\
& + 322*n**2 + 28*n + 1) + 9*B*a*b**2*c*d**2*x*x**(5*n)*(e*x)**m/(m**8 + 28* \\
& m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1 \\
& 932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 48 \\
& 30*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 1 \\
& 9600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + \\
& 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588* \\
& m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 \\
& + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 131 \\
& 32*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 3*B*a*b**2*d**3*m* \\
& *7*x*x**(6*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m** \\
& 6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 67 \\
& 69*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 131 \\
& 32*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m** \\
& 3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600 \\
& *m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m* \\
& n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n +
\end{aligned}$$

$8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 66B^*a^*b^{**2}d^{**3}m^{**6}n^*x^*x^{**}(6n)*(e^*x)^{**m}/(m^{**8} + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} + 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} + 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + 5040m^*n^{**7} + 26136m^*n^{**6} + 39396m^*n^{**5} + 27076m^*n^{**4} + 9800m^*n^{**3} + 1932m^*n^{**2} + 196m^*n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 21B^*a^*b^{**2}d^{**3}m^{**6}n^*x^*x^{**}(6n)*(e^*x)^{**m}/(m^{**8} + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} + 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} + 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + 5040m^*n^{**7} + 26136m^*n^{**6} + 39396m^*n^{**5} + 27076m^*n^{**4} + 9800m^*n^{**3} + 1932m^*n^{**2} + 196m^*n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 570B^*a^*b^{**2}d^{**3}m^{**5}n^{**2}x^*x^{**}(6n)*(e^*x)^{**m}/(m^{**8} + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} + 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} + 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + 5040m^*n^{**7} + 26136m^*n^{**6} + 39396m^*n^{**5} + 27076m^*n^{**4} + 9800m^*n^{**3} + 1932m^*n^{**2} + 196m^*n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 396B^*a^*b^{**2}d^{**3}m^{**5}n^*x^*x^{**}(6n)*(e^*x)^{**m}/(m^{**8} + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} + 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} + 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + 5040m^*n^{**7} + 26136m^*n^{**6} + 39396m^*n^{**5} + 27076m^*n^{**4} + 9800m^*n^{**3} + 1932m^*n^{**2} + 196m^*n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 63B^*a^*b^{**2}d^{**3}m^{**5}x^*x^{**}(6n)*(e^*x)^{**m}/(m^{**8} + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} + 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} + 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + 5040m^*n^{**7} + 26136m^*n^{**6} + 39396m^*n^{**5} + 27076m^*n^{**4} + 9800m^*n^{**3} + 1932m^*n^{**2} + 196m^*n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 2460B^*a^*b^{**2}d^{**3}m^{**4}n^{**3}x^*x^{**}(6n)*(e^*x)^{**m}/(m^{**8} + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196$

$$\begin{aligned}
& m^{*6*n} + 28*m^{*6} + 1960*m^{*5*n**3} + 1932*m^{*5*n**2} + 588*m^{*5*n} + 56*m^{*5} + \\
& 6769*m^{*4*n**4} + 9800*m^{*4*n**3} + 4830*m^{*4*n**2} + 980*m^{*4*n} + 70*m^{*4} + \\
& 13132*m^{*3*n**5} + 27076*m^{*3*n**4} + 19600*m^{*3*n**3} + 6440*m^{*3*n**2} + 980* \\
& m^{*3*n} + 56*m^{*3} + 13068*m^{*2*n**6} + 39396*m^{*2*n**5} + 40614*m^{*2*n**4} + 19 \\
& 600*m^{*2*n**3} + 4830*m^{*2*n**2} + 588*m^{*2*n} + 28*m^{*2} + 5040*m*n^{*7} + 26136 \\
& *m*n^{*6} + 39396*m*n^{*5} + 27076*m*n^{*4} + 9800*m*n^{*3} + 1932*m*n^{*2} + 196*m*n \\
& + 8*m + 5040*n^{*7} + 13068*n^{*6} + 13132*n^{*5} + 6769*n^{*4} + 1960*n^{*3} + 322* \\
& n^{*2} + 28*n + 1) + 2850*B*a*b^{*2*d**3*m^{*4*n**2}*x*x^{*6*n}}*(e*x)^{*m}/(m^{*8} + \\
& 28*m^{*7*n} + 8*m^{*7} + 322*m^{*6*n**2} + 196*m^{*6*n} + 28*m^{*6} + 1960*m^{*5*n**3} \\
& + 1932*m^{*5*n**2} + 588*m^{*5*n} + 56*m^{*5} + 6769*m^{*4*n**4} + 9800*m^{*4*n**3} \\
& + 4830*m^{*4*n**2} + 980*m^{*4*n} + 70*m^{*4} + 13132*m^{*3*n**5} + 27076*m^{*3*n**4} \\
& + 19600*m^{*3*n**3} + 6440*m^{*3*n**2} + 980*m^{*3*n} + 56*m^{*3} + 13068*m^{*2*n**6} \\
& + 39396*m^{*2*n**5} + 40614*m^{*2*n**4} + 19600*m^{*2*n**3} + 4830*m^{*2*n**2} + \\
& 588*m^{*2*n} + 28*m^{*2} + 5040*m*n^{*7} + 26136*m*n^{*6} + 39396*m*n^{*5} + 27076*m* \\
& n^{*4} + 9800*m*n^{*3} + 1932*m*n^{*2} + 196*m*n + 8*m + 5040*n^{*7} + 13068*n^{*6} + \\
& 13132*n^{*5} + 6769*n^{*4} + 1960*n^{*3} + 322*n^{*2} + 28*n + 1) + 990*B*a*b^{*2*d \\
& **3*m^{*4*n*x*x^{*6*n}}*(e*x)^{*m}}/(m^{*8} + 28*m^{*7*n} + 8*m^{*7} + 322*m^{*6*n**2} + \\
& 196*m^{*6*n} + 28*m^{*6} + 1960*m^{*5*n**3} + 1932*m^{*5*n**2} + 588*m^{*5*n} + 56*m \\
& **5 + 6769*m^{*4*n**4} + 9800*m^{*4*n**3} + 4830*m^{*4*n**2} + 980*m^{*4*n} + 70*m* \\
& **4 + 13132*m^{*3*n**5} + 27076*m^{*3*n**4} + 19600*m^{*3*n**3} + 6440*m^{*3*n**2} + \\
& 980*m^{*3*n} + 56*m^{*3} + 13068*m^{*2*n**6} + 39396*m^{*2*n**5} + 40614*m^{*2*n**4} \\
& + 19600*m^{*2*n**3} + 4830*m^{*2*n**2} + 588*m^{*2*n} + 28*m^{*2} + 5040*m*n^{*7} + \\
& 26136*m*n^{*6} + 39396*m*n^{*5} + 27076*m*n^{*4} + 9800*m*n^{*3} + 1932*m*n^{*2} + 19 \\
& 6*m*n + 8*m + 5040*n^{*7} + 13068*n^{*6} + 13132*n^{*5} + 6769*n^{*4} + 1960*n^{*3} + \\
& 322*n^{*2} + 28*n + 1) + 105*B*a*b^{*2*d**3*m^{*4}*x*x^{*6*n}}*(e*x)^{*m}}/(m^{*8} + \\
& 28*m^{*7*n} + 8*m^{*7} + 322*m^{*6*n**2} + 196*m^{*6*n} + 28*m^{*6} + 1960*m^{*5*n**3} \\
& + 1932*m^{*5*n**2} + 588*m^{*5*n} + 56*m^{*5} + 6769*m^{*4*n**4} + 9800*m^{*4*n**3} + \\
& 4830*m^{*4*n**2} + 980*m^{*4*n} + 70*m^{*4} + 13132*m^{*3*n**5} + 27076*m^{*3*n**4} \\
& + 19600*m^{*3*n**3} + 6440*m^{*3*n**2} + 980*m^{*3*n} + 56*m^{*3} + 13068*m^{*2*n**6} \\
& + 39396*m^{*2*n**5} + 40614*m^{*2*n**4} + 19600*m^{*2*n**3} + 4830*m^{*2*n**2} + 5 \\
& 88*m^{*2*n} + 28*m^{*2} + 5040*m*n^{*7} + 26136*m*n^{*6} + 39396*m*n^{*5} + 27076*m*n \\
& **4 + 9800*m*n^{*3} + 1932*m*n^{*2} + 196*m*n + 8*m + 5040*n^{*7} + 13068*n^{*6} + \\
& 13132*n^{*5} + 6769*n^{*4} + 1960*n^{*3} + 322*n^{*2} + 28*n + 1) + 5547*B*a*b^{*2*d \\
& **3*m^{*3*n**4}*x*x^{*6*n}}*(e*x)^{*m}}/(m^{*8} + 28*m^{*7*n} + 8*m^{*7} + 322*m^{*6*n**2} \\
& + 196*m^{*6*n} + 28*m^{*6} + 1960*m^{*5*n**3} + 1932*m^{*5*n**2} + 588*m^{*5*n} + 5 \\
& 6*m^{*5} + 6769*m^{*4*n**4} + 9800*m^{*4*n**3} + 4830*m^{*4*n**2} + 980*m^{*4*n} + 70 \\
& *m^{*4} + 13132*m^{*3*n**5} + 27076*m^{*3*n**4} + 19600*m^{*3*n**3} + 6440*m^{*3*n** \\
& 2} + 980*m^{*3*n} + 56*m^{*3} + 13068*m^{*2*n**6} + 39396*m^{*2*n**5} + 40614*m^{*2*n \\
& **4} + 19600*m^{*2*n**3} + 4830*m^{*2*n**2} + 588*m^{*2*n} + 28*m^{*2} + 5040*m*n^{*7} \\
& + 26136*m*n^{*6} + 39396*m*n^{*5} + 27076*m*n^{*4} + 9800*m*n^{*3} + 1932*m*n^{*2} + \\
& 196*m*n + 8*m + 5040*n^{*7} + 13068*n^{*6} + 13132*n^{*5} + 6769*n^{*4} + 1960*n^{* \\
& 3} + 322*n^{*2} + 28*n + 1) + 9840*B*a*b^{*2*d**3*m^{*3*n**3}*x*x^{*6*n}}*(e*x)^{*m} \\
& / (m^{*8} + 28*m^{*7*n} + 8*m^{*7} + 322*m^{*6*n**2} + 196*m^{*6*n} + 28*m^{*6} + 1960*m \\
& **5*n**3 + 1932*m^{*5*n**2} + 588*m^{*5*n} + 56*m^{*5} + 6769*m^{*4*n**4} + 9800*m* \\
& **4*n**3 + 4830*m^{*4*n**2} + 980*m^{*4*n} + 70*m^{*4} + 13132*m^{*3*n**5} + 27076*m
\end{aligned}$$

$$\begin{aligned}
& **3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068* \\
& m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2 \\
& *n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + \\
& 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 1306 \\
& 8*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 5700*B \\
& *a*b**2*d**3*m**3*n**2*x*x**(6*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322 \\
& *m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m \\
& **5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m* \\
& *4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440 \\
& *m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 406 \\
& 14*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 50 \\
& 40*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932 \\
& *m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + \\
& 1960*n**3 + 322*n**2 + 28*n + 1) + 1320*B*a*b**2*d**3*m**3*n*x*x**(6*n)*(e \\
& *x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + \\
& 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9 \\
& 800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 2 \\
& 7076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + \\
& 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 483 \\
& 0*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n \\
& **5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 \\
& + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + \\
& 105*B*a*b**2*d**3*m**3*x*x**(6*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322 \\
& *m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m \\
& **5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m* \\
& *4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440 \\
& *m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 406 \\
& 14*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 50 \\
& 40*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932 \\
& *m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + \\
& 1960*n**3 + 322*n**2 + 28*n + 1) + 6114*B*a*b**2*d**3*m**2*n**5*x*x**(6*n) \\
& *(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 \\
& + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 \\
& + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 \\
& + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 \\
& + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + \\
& 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396* \\
& m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n* \\
& *7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) \\
& + 16641*B*a*b**2*d**3*m**2*n**4*x*x**(6*n)*(e*x)**m/(m**8 + 28*m**7*n + 8* \\
& m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n* \\
& *2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n** \\
& 2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n \\
& **3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2* \\
& n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28
\end{aligned}$$

$$\begin{aligned}
& **2 + 28*n + 1) + 12228*B*a*b**2*d**3*m*n**5*x*x**(6*n)*(e*x)**m/(m**8 + 28 \\
& *m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + \\
& 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4 \\
& 830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + \\
& 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + \\
& 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588 \\
& *m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n** \\
& 4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13 \\
& 132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 16641*B*a*b**2*d \\
& *3*m*n**4*x*x**(6*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + \\
& 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m \\
& *5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m** \\
& 4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + \\
& 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 \\
& + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 2 \\
& 6136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196 \\
& *m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + \\
& 322*n**2 + 28*n + 1) + 9840*B*a*b**2*d**3*m*n**3*x*x**(6*n)*(e*x)**m/(m**8 \\
& + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n** \\
& 3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 \\
& + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n** \\
& 4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n* \\
& *6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + \\
& 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m \\
& *n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 \\
& + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 2850*B*a*b**2 \\
& *d**3*m*n**2*x*x**(6*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 \\
& + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56 \\
& *m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70* \\
& m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 \\
& + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n* \\
& *4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 \\
& + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + \\
& 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 \\
& + 322*n**2 + 28*n + 1) + 396*B*a*b**2*d**3*m*n*x*x**(6*n)*(e*x)**m/(m**8 + \\
& 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 \\
& + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 \\
& + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 \\
& + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n** \\
& 6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + \\
& 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m \\
& *n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + \\
& 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 21*B*a*b**2*d \\
& *3*m*x*x**(6*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m \\
& **6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 +
\end{aligned}$$

6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 1
 3132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m
 3*n + 56*m3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 196
 00*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m
 n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n
 + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n
 2 + 28*n + 1) + 2520*B*a*b2*d**3*n**6*x*x***(6*n)*(e*x)**m/(m**8 + 28*m*
 *7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 193
 2*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830
 *m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 196
 00*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39
 396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m*
 *2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 +
 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132
 *n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 6114*B*a*b**2*d**3*n
 5*x*x*(6*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m*
 *6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6
 769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13
 132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m*
 3*n + 56*m3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 1960
 0*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m
 n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n +
 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n*
 *2 + 28*n + 1) + 5547*B*a*b**2*d**3*n**4*x*x***(6*n)*(e*x)**m/(m**8 + 28*m**
 7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932
 *m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*
 m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 1960
 0*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 393
 96*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**
 2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 +
 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*
 n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 2460*B*a*b**2*d**3*n*
 3*x*x*(6*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**
 6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 67
 69*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 131
 32*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**
 3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600
 *m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*
 n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n +
 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**
 2 + 28*n + 1) + 570*B*a*b**2*d**3*n**2*x*x***(6*n)*(e*x)**m/(m**8 + 28*m**7*
 n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m
 5*n2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m*
 4*n2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*
 m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396

$$\begin{aligned}
& m^{2n^5} + 40614m^{2n^4} + 19600m^{2n^3} + 4830m^{2n^2} + 588m^{2n} \\
& + 28m + 5040m^{n^7} + 26136m^{n^6} + 39396m^{n^5} + 27076m^{n^4} + 9800m^{n^3} \\
& + 1932m^{n^2} + 196m^n + 8m + 5040n^{n^7} + 13068n^{n^6} + 13132n^{n^5} \\
& + 6769n^{n^4} + 1960n^{n^3} + 322n^{n^2} + 28n + 1) + 66B^*a^*b^{*2}d^{*3}n^*x^*x^* \\
& * (6n) * (e^x)^{**} / (m^{**8} + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 2 \\
& 8m^{**6} + 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4} \\
& n^{**4} + 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} + 13132m^{**3} \\
& n^{**5} + 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} + 980m^{**3}n + 5 \\
& 6m^{**3} + 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} \\
& + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + 5040m^{n^7} + 26136m^{n^6} + \\
& 39396m^{n^5} + 27076m^{n^4} + 9800m^{n^3} + 1932m^{n^2} + 196m^n + 8m + 5 \\
& 040n^{n^7} + 13068n^{n^6} + 13132n^{n^5} + 6769n^{n^4} + 1960n^{n^3} + 322n^{n^2} + 28n \\
& + 1) + 3B^*a^*b^{*2}d^{*3}x^*x^*(6n) * (e^x)^{**} / (m^{**8} + 28m^{**7}n + 8m^{**7} + 3 \\
& 22m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} + 588 \\
& m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} + 980m^{**4}n \\
& + 70m^{**4} + 13132m^{**3}n^{**5} + 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} + 64 \\
& 40m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} + 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} + 4 \\
& 0614m^{**2}n^{**4} + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + \\
& 5040m^{n^7} + 26136m^{n^6} + 39396m^{n^5} + 27076m^{n^4} + 9800m^{n^3} + 19 \\
& 32m^{n^2} + 196m^n + 8m + 5040n^{n^7} + 13068n^{n^6} + 13132n^{n^5} + 6769n^{n^4} \\
& + 1960n^{n^3} + 322n^{n^2} + 28n + 1) + B^*b^{*3}c^{*3}m^{*7}x^*x^*(4n) * (e^x)^{**} / \\
& (m^{**8} + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} + 1960m^{**5} \\
& n^{**3} + 1932m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**4} \\
& n^{**3} + 4830m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} + 27076m^{**3} \\
& n^{**4} + 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} + 13068m^{**2} \\
& n^{**6} + 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} \\
& + 588m^{**2}n + 28m^{**2} + 5040m^{n^7} + 26136m^{n^6} + 39396m^{n^5} + 2 \\
& 7076m^{n^4} + 9800m^{n^3} + 1932m^{n^2} + 196m^n + 8m + 5040n^{n^7} + 13068 \\
& n^{n^6} + 13132n^{n^5} + 6769n^{n^4} + 1960n^{n^3} + 322n^{n^2} + 28n + 1) + 24B^*b^* \\
& *3c^{*3}m^{*6}n^*x^*x^*(4n) * (e^x)^{**} / (m^{**8} + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} \\
& + 196m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} + 588m^{**5}n + \\
& 56m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} + 980m^{**4}n + 7 \\
& 0m^{**4} + 13132m^{**3}n^{**5} + 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} \\
& + 980m^{**3}n + 56m^{**3} + 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} \\
& + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + 5040m^{n^7} \\
& + 26136m^{n^6} + 39396m^{n^5} + 27076m^{n^4} + 9800m^{n^3} + 1932m^{n^2} \\
& + 196m^n + 8m + 5040n^{n^7} + 13068n^{n^6} + 13132n^{n^5} + 6769n^{n^4} + 1960n^{n^3} \\
& + 322n^{n^2} + 28n + 1) + 7B^*b^{*3}c^{*3}m^{*6}x^*x^*(4n) * (e^x)^{**} / (m^{**8} + \\
& 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**3} \\
& + 1932m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**3} + \\
& 4830m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} + 27076m^{**3}n^{**4} \\
& + 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} + 13068m^{**2}n^{**6} \\
& + 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 5 \\
& 88m^{**2}n + 28m^{**2} + 5040m^{n^7} + 26136m^{n^6} + 39396m^{n^5} + 27076m^{n^4} \\
& + 9800m^{n^3} + 1932m^{n^2} + 196m^n + 8m + 5040n^{n^7} + 13068n^{n^6} +
\end{aligned}$$

$13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 226B^3b^3c^3$
 $m^5n^2x^4(e^x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 +$
 $196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m$
 $^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m$
 $^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 +$
 $980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4$
 $+ 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^1n^7 +$
 $26136m^1n^6 + 39396m^1n^5 + 27076m^1n^4 + 9800m^1n^3 + 1932m^1n^2 + 19$
 $6m^1n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 +$
 $322n^2 + 28n + 1) + 144B^3b^3c^3m^5n^4x^4(e^x)^m/(m^8 +$
 $28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3$
 $+ 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 +$
 $4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4$
 $+ 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6$
 $+ 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 5$
 $88m^2n + 28m^2 + 5040m^1n^7 + 26136m^1n^6 + 39396m^1n^5 + 27076m^1n$
 $^4 + 9800m^1n^3 + 1932m^1n^2 + 196m^1n + 8m + 5040n^7 + 13068n^6 +$
 $13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 21B^3b^3c^3m$
 $^5n^4x^4(e^x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m$
 $^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 +$
 $6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 1$
 $3132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m$
 $^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 196$
 $00m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^1n^7 + 26136m$
 $^1n^6 + 39396m^1n^5 + 27076m^1n^4 + 9800m^1n^3 + 1932m^1n^2 + 196m^1n$
 $+ 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n$
 $^2 + 28n + 1) + 1056B^3b^3c^3m^4n^3x^4(e^x)^m/(m^8 + 28$
 $m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 +$
 $1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4$
 $830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 +$
 $19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 +$
 $39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588$
 $m^2n + 28m^2 + 5040m^1n^7 + 26136m^1n^6 + 39396m^1n^5 + 27076m^1n$
 $^4 + 9800m^1n^3 + 1932m^1n^2 + 196m^1n + 8m + 5040n^7 + 13068n^6 + 13$
 $132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 1130B^3b^3c^3m$
 $^4n^2x^4(e^x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 +$
 $196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m$
 $^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m$
 $^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 +$
 $980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4$
 $+ 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^1n^7 + 2$
 $6136m^1n^6 + 39396m^1n^5 + 27076m^1n^4 + 9800m^1n^3 + 1932m^1n^2 + 196$
 $m^1n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 +$
 $322n^2 + 28n + 1) + 360B^3b^3c^3m^4n^2x^4(e^x)^m/(m^8 + 2$
 $8m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 +$

$$\begin{aligned}
& 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + \\
& 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + \\
& 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + \\
& 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + \\
& 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + \\
& 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 1 \\
& 3132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 35B^3c^3m \\
& ^4x^x(4n)(e^x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^ \\
& ^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6 \\
& 769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13 \\
& 132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^ \\
& ^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 1960 \\
& 0m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136m \\
& n^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + \\
& 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^ \\
& ^2 + 28n + 1) + 2545B^3c^3m^3n^4x^x(4n)(e^x)^m/(m^8 + 28m \\
& ^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1 \\
& 932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 48 \\
& 30m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 1 \\
& 9600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + \\
& 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m \\
& ^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 \\
& + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 131 \\
& 32n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 4224B^3c^3m \\
& ^3n^3x^x(4n)(e^x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 1 \\
& 96m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^ \\
& 5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 \\
& + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 9 \\
& 80m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + \\
& 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26 \\
& 136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196m \\
& n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 3 \\
& 22n^2 + 28n + 1) + 2260B^3c^3m^3n^2x^x(4n)(e^x)^m/(m^8 \\
& + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^ \\
& 3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 \\
& + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^ \\
& 4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^ \\
& ^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + \\
& 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076m \\
& n^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 \\
& + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 480B^3c^ \\
& ^3m^3n^x^x(4n)(e^x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + \\
& 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^ \\
& ^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^ \\
& 4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 +
\end{aligned}$$

$$\begin{aligned}
& 980m^{3n} + 56m^3 + 13068m^{2n} + 39396m^{2n} + 40614m^{2n} + 19600m^{2n} + 4830m^{2n} + 588m^{2n} + 28m^{2n} + 5040m^{n7} + 2 \\
& 6136m^{n6} + 39396m^{n5} + 27076m^{n4} + 9800m^{n3} + 1932m^{n2} + 196 \\
& *m^n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + \\
& 322n^2 + 28n + 1) + 35B^3c^3m^3x^{4n}(e^x)^m/(m^8 + 28m \\
& ^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 19 \\
& 32m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 483 \\
& 0m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19 \\
& 600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 3 \\
& 9396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m \\
& ^2n + 28m^2 + 5040m^{n7} + 26136m^{n6} + 39396m^{n5} + 27076m^{n4} \\
& + 9800m^{n3} + 1932m^{n2} + 196m^n + 8m + 5040n^7 + 13068n^6 + 1313 \\
& 2n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 2952B^3c^3m^ \\
& ^2n^5x^{4n}(e^x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 19 \\
& 6m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 \\
& + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 \\
& + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 98 \\
& 0m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + \\
& 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^{n7} + 261 \\
& 36m^{n6} + 39396m^{n5} + 27076m^{n4} + 9800m^{n3} + 1932m^{n2} + 196m \\
& ^n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 32 \\
& 2n^2 + 28n + 1) + 7635B^3c^3m^2n^4x^{4n}(e^x)^m/(m^8 + \\
& 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 \\
& + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 \\
& + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 \\
& + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 \\
& + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + \\
& 588m^2n + 28m^2 + 5040m^{n7} + 26136m^{n6} + 39396m^{n5} + 27076m^ \\
& ^n^4 + 9800m^{n3} + 1932m^{n2} + 196m^n + 8m + 5040n^7 + 13068n^6 + \\
& 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 6336B^3c^ \\
& ^3m^2n^3x^{4n}(e^x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 \\
& + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56 \\
& m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^ \\
& ^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 \\
& + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^ \\
& ^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^{n7} \\
& + 26136m^{n6} + 39396m^{n5} + 27076m^{n4} + 9800m^{n3} + 1932m^{n2} + \\
& 196m^n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 \\
& + 322n^2 + 28n + 1) + 2260B^3c^3m^2n^2x^{4n}(e^x)^m/(m \\
& ^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5 \\
& ^n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^ \\
& ^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3 \\
& ^n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^ \\
& ^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^ \\
& ^2 + 588m^2n + 28m^2 + 5040m^{n7} + 26136m^{n6} + 39396m^{n5} + 270
\end{aligned}$$

$$\begin{aligned}
& *m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**3} + \\
& 1932m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**3} + 4 \\
& 830m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} + 27076m^{**3}n^{**4} + \\
& 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} + 13068m^{**2}n^{**6} + \\
& 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588 \\
& m^{**2}n + 28m^{**2} + 5040m^{**n}n^{**7} + 26136m^{**n}n^{**6} + 39396m^{**n}n^{**5} + 27076m^{**n}n^{** \\
& 4 + 9800m^{**n}n^{**3} + 1932m^{**n}n^{**2} + 196m^{**n} + 8m + 5040n^{**7} + 13068n^{**6} + 13 \\
& 132n^{**5} + 6769n^{**4} + 1960n^{**3} + 322n^{**2} + 28n + 1) + 1130*B*b^{**3}c^{**3} \\
& m^{**2}x^{**3}(4n)*(e^x)^{**m}/(m^{**8} + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196 \\
& m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} \\
& + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} + \\
& 13132m^{**3}n^{**5} + 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} + 980 \\
& m^{**3}n + 56m^{**3} + 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 1 \\
& 9600m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + 5040m^{**n}n^{**7} + 2613 \\
& 6m^{**n}n^{**6} + 39396m^{**n}n^{**5} + 27076m^{**n}n^{**4} + 9800m^{**n}n^{**3} + 1932m^{**n}n^{**2} + 196m^{** \\
& n + 8m + 5040n^{**7} + 13068n^{**6} + 13132n^{**5} + 6769n^{**4} + 1960n^{**3} + 322 \\
& n^{**2} + 28n + 1) + 144*B*b^{**3}c^{**3}m^{**n}x^{**3}(4n)*(e^x)^{**m}/(m^{**8} + 28m^{**7} \\
& n + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**3} + 1932m \\
& m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**3} + 4830m \\
& **4n^{**2} + 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} + 27076m^{**3}n^{**4} + 19600 \\
& m^{**3}n^{**3} + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} + 13068m^{**2}n^{**6} + 3939 \\
& 6m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588m^{**2} \\
& n + 28m^{**2} + 5040m^{**n}n^{**7} + 26136m^{**n}n^{**6} + 39396m^{**n}n^{**5} + 27076m^{**n}n^{**4} + 9 \\
& 800m^{**n}n^{**3} + 1932m^{**n}n^{**2} + 196m^{**n} + 8m + 5040n^{**7} + 13068n^{**6} + 13132n \\
& **5 + 6769n^{**4} + 1960n^{**3} + 322n^{**2} + 28n + 1) + 7*B*b^{**3}c^{**3}m^{**x}x^{**3}(\\
& 4n)*(e^x)^{**m}/(m^{**8} + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 28m \\
& m^{**6} + 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n \\
& **4 + 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} + 13132m^{**3}n \\
& **5 + 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m \\
& m^{**3} + 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} + 40614m^{**2}n^{**4} + 19600m^{**2}n^{** \\
& 3 + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{**2} + 5040m^{**n}n^{**7} + 26136m^{**n}n^{**6} + 39 \\
& 396m^{**n}n^{**5} + 27076m^{**n}n^{**4} + 9800m^{**n}n^{**3} + 1932m^{**n}n^{**2} + 196m^{**n} + 8m + 504 \\
& 0n^{**7} + 13068n^{**6} + 13132n^{**5} + 6769n^{**4} + 1960n^{**3} + 322n^{**2} + 28n \\
& + 1) + 1260*B*b^{**3}c^{**3}n^{**6}x^{**3}(4n)*(e^x)^{**m}/(m^{**8} + 28m^{**7}n + 8m^{**7} \\
& + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} + 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} + \\
& 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} + 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} + \\
& 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} + 27076m^{**3}n^{**4} + 19600m^{**3}n^{**3} \\
& + 6440m^{**3}n^{**2} + 980m^{**3}n + 56m^{**3} + 13068m^{**2}n^{**6} + 39396m^{**2}n^{**5} \\
& + 40614m^{**2}n^{**4} + 19600m^{**2}n^{**3} + 4830m^{**2}n^{**2} + 588m^{**2}n + 28m^{** \\
& 2 + 5040m^{**n}n^{**7} + 26136m^{**n}n^{**6} + 39396m^{**n}n^{**5} + 27076m^{**n}n^{**4} + 9800m^{**n}n^{**3} \\
& + 1932m^{**n}n^{**2} + 196m^{**n} + 8m + 5040n^{**7} + 13068n^{**6} + 13132n^{**5} + 6769n \\
& n^{**4} + 1960n^{**3} + 322n^{**2} + 28n + 1) + 2952*B*b^{**3}c^{**3}n^{**5}x^{**3}(4n) \\
& (e^x)^{**m}/(m^{**8} + 28m^{**7}n + 8m^{**7} + 322m^{**6}n^{**2} + 196m^{**6}n + 28m^{**6} \\
& + 1960m^{**5}n^{**3} + 1932m^{**5}n^{**2} + 588m^{**5}n + 56m^{**5} + 6769m^{**4}n^{**4} + \\
& 9800m^{**4}n^{**3} + 4830m^{**4}n^{**2} + 980m^{**4}n + 70m^{**4} + 13132m^{**3}n^{**5} +
\end{aligned}$$

$27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3}$
 $+ 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + 4$
 $830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + 26136m^{*n}n^{*6} + 39396m$
 $*n^{*5} + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196m^{*n} + 8m + 5040n^{*7}$
 $+ 13068n^{*6} + 13132n^{*5} + 6769n^{*4} + 1960n^{*3} + 322n^{*2} + 28n + 1)$
 $+ 2545B*b^{*3}c^{*3}n^{*4}x*x^{*}(4n)*(e*x)^{**}/(m^{*8} + 28m^{*7}n + 8m^{*7} + 32$
 $2m^{*6}n^{*2} + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} + 588m$
 $m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m$
 $^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 644$
 $0m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40$
 $614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5$
 $040m^{*n}n^{*7} + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 193$
 $2m^{*n}n^{*2} + 196m^{*n} + 8m + 5040n^{*7} + 13068n^{*6} + 13132n^{*5} + 6769n^{*4}$
 $+ 1960n^{*3} + 322n^{*2} + 28n + 1) + 1056B*b^{*3}c^{*3}n^{*3}x*x^{*}(4n)*(e*x)$
 $^{**}/(m^{*8} + 28m^{*7}n + 8m^{*7} + 322m^{*6}n^{*2} + 196m^{*6}n + 28m^{*6} + 196$
 $0m^{*5}n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} + 9800$
 $m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} + 2707$
 $6m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3} + 130$
 $68m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + 4830m$
 $^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5}$
 $+ 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196m^{*n} + 8m + 5040n^{*7} + 1$
 $3068n^{*6} + 13132n^{*5} + 6769n^{*4} + 1960n^{*3} + 322n^{*2} + 28n + 1) + 226$
 $*B*b^{*3}c^{*3}n^{*2}x*x^{*}(4n)*(e*x)^{**}/(m^{*8} + 28m^{*7}n + 8m^{*7} + 322m^{*6}$
 $n^{*2} + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5}n$
 $+ 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n$
 $+ 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3}$
 $n^{*2} + 980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m^{*2}$
 $n^{*4} + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*n}$
 $n^{*7} + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} + 27076m^{*n}n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}$
 $n^{*2} + 196m^{*n} + 8m + 5040n^{*7} + 13068n^{*6} + 13132n^{*5} + 6769n^{*4} + 1960$
 $n^{*3} + 322n^{*2} + 28n + 1) + 24B*b^{*3}c^{*3}n^{*x}x^{*}(4n)*(e*x)^{**}/(m^{*8} +$
 $28m^{*7}n + 8m^{*7} + 322m^{*6}n^{*2} + 196m^{*6}n + 28m^{*6} + 1960m^{*5}n^{*3}$
 $+ 1932m^{*5}n^{*2} + 588m^{*5}n + 56m^{*5} + 6769m^{*4}n^{*4} + 9800m^{*4}n^{*3}$
 $+ 4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} + 13132m^{*3}n^{*5} + 27076m^{*3}n^{*4}$
 $+ 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980m^{*3}n + 56m^{*3} + 13068m^{*2}n^{*6}$
 $+ 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 19600m^{*2}n^{*3} + 4830m^{*2}n^{*2} +$
 $588m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + 26136m^{*n}n^{*6} + 39396m^{*n}n^{*5} + 27076m^{*n}$
 $n^{*4} + 9800m^{*n}n^{*3} + 1932m^{*n}n^{*2} + 196m^{*n} + 8m + 5040n^{*7} + 13068n^{*6} +$
 $13132n^{*5} + 6769n^{*4} + 1960n^{*3} + 322n^{*2} + 28n + 1) + B*b^{*3}c^{*3}x^{*}$
 $x^{*}(4n)*(e*x)^{**}/(m^{*8} + 28m^{*7}n + 8m^{*7} + 322m^{*6}n^{*2} + 196m^{*6}n +$
 $28m^{*6} + 1960m^{*5}n^{*3} + 1932m^{*5}n^{*2} + 588m^{*5}n + 56m^{*5} + 6769m^{*4}$
 $n^{*4} + 9800m^{*4}n^{*3} + 4830m^{*4}n^{*2} + 980m^{*4}n + 70m^{*4} + 13132m^{*3}$
 $n^{*5} + 27076m^{*3}n^{*4} + 19600m^{*3}n^{*3} + 6440m^{*3}n^{*2} + 980m^{*3}n +$
 $56m^{*3} + 13068m^{*2}n^{*6} + 39396m^{*2}n^{*5} + 40614m^{*2}n^{*4} + 19600m^{*2}$
 $n^{*3} + 4830m^{*2}n^{*2} + 588m^{*2}n + 28m^{*2} + 5040m^{*n}n^{*7} + 26136m^{*n}n^{*6}$

$$\begin{aligned}
& + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + \\
& 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 3*B*b**3*c**2*d*m**7*x*x** (5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 69*B*b**3*c**2*d*m**6*n*x*x** (5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 21*B*b**3*c**2*d*m**6*x*x** (5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 621*B*b**3*c**2*d*m**5*n**2*x*x** (5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 414*B*b**3*c**2*d*m**5*n*x*x** (5*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 63*B*b**3*c**2*d*m**5*x*x** (5
\end{aligned}$$

$$\begin{aligned}
 & *n) * (e^x)^{**m} / (m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} \\
 & + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} \\
 & + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} \\
 & + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} \\
 & + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} \\
 & + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 393 \\
 & 96*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040 \\
 & *n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + \\
 & 1) + 2775*B*b^{**3}*c^{**2}*d*m^{**4}*n^{**3}*x*x^{**5}*n) * (e^x)^{**m} / (m^{**8} + 28*m^{**7}*n + \\
 & 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}* \\
 & n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n \\
 & **2 + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3} \\
 & *n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2} \\
 & *n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + \\
 & 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m \\
 & *n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + \\
 & 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 3105*B*b^{**3}*c^{**2}*d*m^{**4}*n^{**2} \\
 & *x*x^{**5}*n) * (e^x)^{**m} / (m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6} \\
 & *n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 676 \\
 & 9*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 1313 \\
 & 2*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3} \\
 & *n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600* \\
 & m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n \\
 & **6 + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8 \\
 & *m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} \\
 & + 28*n + 1) + 1035*B*b^{**3}*c^{**2}*d*m^{**4}*n*x*x^{**5}*n) * (e^x)^{**m} / (m^{**8} + 28*m^{**7} \\
 & *n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932 \\
 & *m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830* \\
 & m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 1960 \\
 & 0*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 393 \\
 & 96*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2} \\
 & *n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + \\
 & 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132* \\
 & n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 105*B*b^{**3}*c^{**2}*d*m^{**4} \\
 & *x*x^{**5}*n) * (e^x)^{**m} / (m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6} \\
 & *n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 676 \\
 & 9*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 1313 \\
 & 2*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3} \\
 & *n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600* \\
 & m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n \\
 & **6 + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8 \\
 & *m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} \\
 & + 28*n + 1) + 6432*B*b^{**3}*c^{**2}*d*m^{**3}*n^{**4}*x*x^{**5}*n) * (e^x)^{**m} / (m^{**8} + 28* \\
 & m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1 \\
 & 932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 48
 \end{aligned}$$

$$\begin{aligned}
& 30*m^{*4}*n^{*2} + 980*m^{*4}*n + 70*m^{*4} + 13132*m^{*3}*n^{*5} + 27076*m^{*3}*n^{*4} + 1 \\
& 9600*m^{*3}*n^{*3} + 6440*m^{*3}*n^{*2} + 980*m^{*3}*n + 56*m^{*3} + 13068*m^{*2}*n^{*6} + \\
& 39396*m^{*2}*n^{*5} + 40614*m^{*2}*n^{*4} + 19600*m^{*2}*n^{*3} + 4830*m^{*2}*n^{*2} + 588* \\
& m^{*2}*n + 28*m^{*2} + 5040*m*n^{*7} + 26136*m*n^{*6} + 39396*m*n^{*5} + 27076*m*n^{*4} \\
& + 9800*m*n^{*3} + 1932*m*n^{*2} + 196*m*n + 8*m + 5040*n^{*7} + 13068*n^{*6} + 131 \\
& 32*n^{*5} + 6769*n^{*4} + 1960*n^{*3} + 322*n^{*2} + 28*n + 1) + 11100*B*b^{*3}*c^{*2}* \\
& d^{*3}*n^{*3}*x*x^{*5}*n*(e*x)^{*m}/(m^{*8} + 28*m^{*7}*n + 8*m^{*7} + 322*m^{*6}*n^{*2} \\
& + 196*m^{*6}*n + 28*m^{*6} + 1960*m^{*5}*n^{*3} + 1932*m^{*5}*n^{*2} + 588*m^{*5}*n + 56* \\
& m^{*5} + 6769*m^{*4}*n^{*4} + 9800*m^{*4}*n^{*3} + 4830*m^{*4}*n^{*2} + 980*m^{*4}*n + 70*m \\
& ^{*4} + 13132*m^{*3}*n^{*5} + 27076*m^{*3}*n^{*4} + 19600*m^{*3}*n^{*3} + 6440*m^{*3}*n^{*2} \\
& + 980*m^{*3}*n + 56*m^{*3} + 13068*m^{*2}*n^{*6} + 39396*m^{*2}*n^{*5} + 40614*m^{*2}*n^{*4} \\
& + 19600*m^{*2}*n^{*3} + 4830*m^{*2}*n^{*2} + 588*m^{*2}*n + 28*m^{*2} + 5040*m*n^{*7} + \\
& 26136*m*n^{*6} + 39396*m*n^{*5} + 27076*m*n^{*4} + 9800*m*n^{*3} + 1932*m*n^{*2} + 1 \\
& 96*m*n + 8*m + 5040*n^{*7} + 13068*n^{*6} + 13132*n^{*5} + 6769*n^{*4} + 1960*n^{*3} \\
& + 322*n^{*2} + 28*n + 1) + 6210*B*b^{*3}*c^{*2}*d^{*3}*n^{*2}*x*x^{*5}*n*(e*x)^{*m}/(\\
& m^{*8} + 28*m^{*7}*n + 8*m^{*7} + 322*m^{*6}*n^{*2} + 196*m^{*6}*n + 28*m^{*6} + 1960*m^{*5} \\
& ^{*3} + 1932*m^{*5}*n^{*2} + 588*m^{*5}*n + 56*m^{*5} + 6769*m^{*4}*n^{*4} + 9800*m^{*4} \\
& ^{*3} + 4830*m^{*4}*n^{*2} + 980*m^{*4}*n + 70*m^{*4} + 13132*m^{*3}*n^{*5} + 27076*m^{*3} \\
& ^{*4} + 19600*m^{*3}*n^{*3} + 6440*m^{*3}*n^{*2} + 980*m^{*3}*n + 56*m^{*3} + 13068*m^{*2} \\
& ^{*6} + 39396*m^{*2}*n^{*5} + 40614*m^{*2}*n^{*4} + 19600*m^{*2}*n^{*3} + 4830*m^{*2}*n \\
& ^{*2} + 588*m^{*2}*n + 28*m^{*2} + 5040*m*n^{*7} + 26136*m*n^{*6} + 39396*m*n^{*5} + 27 \\
& 076*m*n^{*4} + 9800*m*n^{*3} + 1932*m*n^{*2} + 196*m*n + 8*m + 5040*n^{*7} + 13068* \\
& n^{*6} + 13132*n^{*5} + 6769*n^{*4} + 1960*n^{*3} + 322*n^{*2} + 28*n + 1) + 1380*B*b \\
& ^{*3}*c^{*2}*d^{*3}*n*x*x^{*5}*n*(e*x)^{*m}/(m^{*8} + 28*m^{*7}*n + 8*m^{*7} + 322*m^{*6} \\
& ^{*2} + 196*m^{*6}*n + 28*m^{*6} + 1960*m^{*5}*n^{*3} + 1932*m^{*5}*n^{*2} + 588*m^{*5}*n \\
& + 56*m^{*5} + 6769*m^{*4}*n^{*4} + 9800*m^{*4}*n^{*3} + 4830*m^{*4}*n^{*2} + 980*m^{*4}*n \\
& + 70*m^{*4} + 13132*m^{*3}*n^{*5} + 27076*m^{*3}*n^{*4} + 19600*m^{*3}*n^{*3} + 6440*m^{*3} \\
& ^{*2} + 980*m^{*3}*n + 56*m^{*3} + 13068*m^{*2}*n^{*6} + 39396*m^{*2}*n^{*5} + 40614*m^{*2} \\
& ^{*4} + 19600*m^{*2}*n^{*3} + 4830*m^{*2}*n^{*2} + 588*m^{*2}*n + 28*m^{*2} + 5040*m* \\
& n^{*7} + 26136*m*n^{*6} + 39396*m*n^{*5} + 27076*m*n^{*4} + 9800*m*n^{*3} + 1932*m*n^{*2} \\
& + 196*m*n + 8*m + 5040*n^{*7} + 13068*n^{*6} + 13132*n^{*5} + 6769*n^{*4} + 1960 \\
& ^{*3} + 322*n^{*2} + 28*n + 1) + 105*B*b^{*3}*c^{*2}*d^{*3}*x*x^{*5}*n*(e*x)^{*m}/(\\
& m^{*8} + 28*m^{*7}*n + 8*m^{*7} + 322*m^{*6}*n^{*2} + 196*m^{*6}*n + 28*m^{*6} + 1960*m^{*5} \\
& ^{*3} + 1932*m^{*5}*n^{*2} + 588*m^{*5}*n + 56*m^{*5} + 6769*m^{*4}*n^{*4} + 9800*m^{*4} \\
& ^{*3} + 4830*m^{*4}*n^{*2} + 980*m^{*4}*n + 70*m^{*4} + 13132*m^{*3}*n^{*5} + 27076*m^{*3} \\
& ^{*4} + 19600*m^{*3}*n^{*3} + 6440*m^{*3}*n^{*2} + 980*m^{*3}*n + 56*m^{*3} + 13068*m^{*2} \\
& ^{*6} + 39396*m^{*2}*n^{*5} + 40614*m^{*2}*n^{*4} + 19600*m^{*2}*n^{*3} + 4830*m^{*2}*n \\
& ^{*2} + 588*m^{*2}*n + 28*m^{*2} + 5040*m*n^{*7} + 26136*m*n^{*6} + 39396*m*n^{*5} + 27 \\
& 076*m*n^{*4} + 9800*m*n^{*3} + 1932*m*n^{*2} + 196*m*n + 8*m + 5040*n^{*7} + 13068* \\
& n^{*6} + 13132*n^{*5} + 6769*n^{*4} + 1960*n^{*3} + 322*n^{*2} + 28*n + 1) + 7236*B*b \\
& ^{*3}*c^{*2}*d^{*2}*n^{*5}*x*x^{*5}*n*(e*x)^{*m}/(m^{*8} + 28*m^{*7}*n + 8*m^{*7} + 322*m \\
& ^{*6}*n^{*2} + 196*m^{*6}*n + 28*m^{*6} + 1960*m^{*5}*n^{*3} + 1932*m^{*5}*n^{*2} + 588*m^{*5} \\
& ^{*n} + 56*m^{*5} + 6769*m^{*4}*n^{*4} + 9800*m^{*4}*n^{*3} + 4830*m^{*4}*n^{*2} + 980*m^{*4} \\
& ^{*n} + 70*m^{*4} + 13132*m^{*3}*n^{*5} + 27076*m^{*3}*n^{*4} + 19600*m^{*3}*n^{*3} + 6440*m \\
& ^{*3}*n^{*2} + 980*m^{*3}*n + 56*m^{*3} + 13068*m^{*2}*n^{*6} + 39396*m^{*2}*n^{*5} + 40614
\end{aligned}$$

$$\begin{aligned}
& *m^{**2}n^{**4} + 19600*m^{**2}n^{**3} + 4830*m^{**2}n^{**2} + 588*m^{**2}n + 28*m^{**2} + 5040 \\
& *m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m \\
& *n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1 \\
& 960*n^{**3} + 322*n^{**2} + 28*n + 1) + 19296*B*b^{**3}c^{**2}d*m^{**2}n^{**4}*x*x^{**}(5*n)* \\
& (e*x)^{**m}/(m^{**8} + 28*m^{**7}n + 8*m^{**7} + 322*m^{**6}n^{**2} + 196*m^{**6}n + 28*m^{**6} \\
& + 1960*m^{**5}n^{**3} + 1932*m^{**5}n^{**2} + 588*m^{**5}n + 56*m^{**5} + 6769*m^{**4}n^{**4} + \\
& 9800*m^{**4}n^{**3} + 4830*m^{**4}n^{**2} + 980*m^{**4}n + 70*m^{**4} + 13132*m^{**3}n^{**5} + \\
& 27076*m^{**3}n^{**4} + 19600*m^{**3}n^{**3} + 6440*m^{**3}n^{**2} + 980*m^{**3}n + 56*m^{**3} \\
& + 13068*m^{**2}n^{**6} + 39396*m^{**2}n^{**5} + 40614*m^{**2}n^{**4} + 19600*m^{**2}n^{**3} + 4 \\
& 830*m^{**2}n^{**2} + 588*m^{**2}n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m \\
& *n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{** \\
& 7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) \\
& + 16650*B*b^{**3}c^{**2}d*m^{**2}n^{**3}*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}n + 8*m \\
& **7 + 322*m^{**6}n^{**2} + 196*m^{**6}n + 28*m^{**6} + 1960*m^{**5}n^{**3} + 1932*m^{**5}n^{** \\
& 2} + 588*m^{**5}n + 56*m^{**5} + 6769*m^{**4}n^{**4} + 9800*m^{**4}n^{**3} + 4830*m^{**4}n^{**2} \\
& + 980*m^{**4}n + 70*m^{**4} + 13132*m^{**3}n^{**5} + 27076*m^{**3}n^{**4} + 19600*m^{**3}n^{** \\
& *3} + 6440*m^{**3}n^{**2} + 980*m^{**3}n + 56*m^{**3} + 13068*m^{**2}n^{**6} + 39396*m^{**2}n \\
& **5 + 40614*m^{**2}n^{**4} + 19600*m^{**2}n^{**3} + 4830*m^{**2}n^{**2} + 588*m^{**2}n + 28* \\
& m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{** \\
& *3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 67 \\
& 69*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 6210*B*b^{**3}c^{**2}d*m^{**2}n^{**2}*x \\
& *x^{**}(5*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}n + 8*m^{**7} + 322*m^{**6}n^{**2} + 196*m^{**6}n \\
& + 28*m^{**6} + 1960*m^{**5}n^{**3} + 1932*m^{**5}n^{**2} + 588*m^{**5}n + 56*m^{**5} + 6769*m \\
& **4*n^{**4} + 9800*m^{**4}n^{**3} + 4830*m^{**4}n^{**2} + 980*m^{**4}n + 70*m^{**4} + 13132*m \\
& **3*n^{**5} + 27076*m^{**3}n^{**4} + 19600*m^{**3}n^{**3} + 6440*m^{**3}n^{**2} + 980*m^{**3}n \\
& + 56*m^{**3} + 13068*m^{**2}n^{**6} + 39396*m^{**2}n^{**5} + 40614*m^{**2}n^{**4} + 19600*m^{** \\
& 2}n^{**3} + 4830*m^{**2}n^{**2} + 588*m^{**2}n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} \\
& + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m \\
& + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + \\
& 28*n + 1) + 1035*B*b^{**3}c^{**2}d*m^{**2}n*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}n \\
& + 8*m^{**7} + 322*m^{**6}n^{**2} + 196*m^{**6}n + 28*m^{**6} + 1960*m^{**5}n^{**3} + 1932*m \\
& *5*n^{**2} + 588*m^{**5}n + 56*m^{**5} + 6769*m^{**4}n^{**4} + 9800*m^{**4}n^{**3} + 4830*m^{** \\
& 4}n^{**2} + 980*m^{**4}n + 70*m^{**4} + 13132*m^{**3}n^{**5} + 27076*m^{**3}n^{**4} + 19600*m \\
& **3}n^{**3} + 6440*m^{**3}n^{**2} + 980*m^{**3}n + 56*m^{**3} + 13068*m^{**2}n^{**6} + 39396* \\
& m^{**2}n^{**5} + 40614*m^{**2}n^{**4} + 19600*m^{**2}n^{**3} + 4830*m^{**2}n^{**2} + 588*m^{**2}n \\
& + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 980 \\
& 0*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{** \\
& 5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 63*B*b^{**3}c^{**2}d*m^{**2}*x \\
& x^{**}(5*n)*(e*x)^{**m}/(m^{**8} + 28*m^{**7}n + 8*m^{**7} + 322*m^{**6}n^{**2} + 196*m^{**6}n + \\
& 28*m^{**6} + 1960*m^{**5}n^{**3} + 1932*m^{**5}n^{**2} + 588*m^{**5}n + 56*m^{**5} + 6769*m \\
& **4*n^{**4} + 9800*m^{**4}n^{**3} + 4830*m^{**4}n^{**2} + 980*m^{**4}n + 70*m^{**4} + 13132*m \\
& **3*n^{**5} + 27076*m^{**3}n^{**4} + 19600*m^{**3}n^{**3} + 6440*m^{**3}n^{**2} + 980*m^{**3}n + \\
& 56*m^{**3} + 13068*m^{**2}n^{**6} + 39396*m^{**2}n^{**5} + 40614*m^{**2}n^{**4} + 19600*m^{**2} \\
& *n^{**3} + 4830*m^{**2}n^{**2} + 588*m^{**2}n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} \\
& + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m +
\end{aligned}$$

$$\begin{aligned}
& 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 2 \\
& 8*n + 1) + 3024*B*b^{**3}*c^{**2}*d*m*n^{**6}*x*x^{**5}*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n \\
& + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5} \\
& 5*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4} \\
& *n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3} \\
& *n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m \\
& **2*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n \\
& + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800 \\
& *m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} \\
& + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 14472*B*b^{**3}*c^{**2}*d*m*n^{**5} \\
& *x*x^{**5}*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6} \\
& *n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 676 \\
& 9*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 1313 \\
& 2*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3} \\
& *n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600* \\
& m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n \\
& **6 + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8 \\
& *m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} \\
& + 28*n + 1) + 19296*B*b^{**3}*c^{**2}*d*m*n^{**4}*x*x^{**5}*(e*x)^{**m}/(m^{**8} + 28*m* \\
& **7*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 193 \\
& 2*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830 \\
& *m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 196 \\
& 00*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39 \\
& 396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m* \\
& **2*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + \\
& 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132 \\
& *n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 11100*B*b^{**3}*c^{**2}*d* \\
& m*n^{**3}*x*x^{**5}*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196 \\
& *m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} \\
& + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + \\
& 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980 \\
& *m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 1 \\
& 9600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 2613 \\
& 6*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m* \\
& n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322 \\
& *n^{**2} + 28*n + 1) + 3105*B*b^{**3}*c^{**2}*d*m*n^{**2}*x*x^{**5}*(e*x)^{**m}/(m^{**8} + 2 \\
& 8*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + \\
& 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + \\
& 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + \\
& 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} \\
& + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 58 \\
& 8*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n* \\
& **4 + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 1 \\
& 3132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 414*B*b^{**3}*c^{**2}* \\
& d*m*n*x*x^{**5}*(e*x)^{**m}/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*
\end{aligned}$$

$3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 621B^3c^2d^2x^5(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 69B^3c^2d^2nx^5(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 3B^3c^2d^2x^5(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 3B^3cd^2m^7x^6(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 66B^3cd^2m^6nx^6(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 3B^3cd^2m^5nx^6(e^x)^m / (m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040mn^7 + 26136mn^6 + 39396mn^5 + 27076mn^4 + 9800mn^3 + 1932mn^2 + 196mn + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1)$

$$\begin{aligned}
& n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} \\
& + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} \\
& + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} \\
& + 322*n^{**2} + 28*n + 1) + 5700*B*b^{**3}*c*d^{**2}*m^{**2}*n^{**2}*x*x^{**6}*n*(e*x)** \\
& m/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960* \\
& m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m \\
& **4*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076* \\
& m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068 \\
& *m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2} \\
& *n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + \\
& 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 130 \\
& 68*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 990*B \\
& *b^{**3}*c*d^{**2}*m^{**2}*n*x*x^{**6}*n*(e*x)**m/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m* \\
& *6*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5} \\
& *n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}* \\
& n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m* \\
& *3*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614* \\
& m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040* \\
& m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m* \\
& n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 19 \\
& 60*n^{**3} + 322*n^{**2} + 28*n + 1) + 63*B*b^{**3}*c*d^{**2}*m^{**2}*x*x^{**6}*n*(e*x)**m/ \\
& (m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m* \\
& *5*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{** \\
& 4*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m* \\
& *3*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m \\
& **2*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}* \\
& n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 2 \\
& 7076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 13068 \\
& *n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 1960*n^{**3} + 322*n^{**2} + 28*n + 1) + 2520*B* \\
& b^{**3}*c*d^{**2}*m*n^{**6}*x*x^{**6}*n*(e*x)**m/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m* \\
& *6*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 1960*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}* \\
& n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800*m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n \\
& + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 27076*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{** \\
& 3*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 13068*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m \\
& **2*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m^{**2}*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m \\
& *n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n \\
& **2 + 196*m*n + 8*m + 5040*n^{**7} + 13068*n^{**6} + 13132*n^{**5} + 6769*n^{**4} + 196 \\
& 0*n^{**3} + 322*n^{**2} + 28*n + 1) + 12228*B*b^{**3}*c*d^{**2}*m*n^{**5}*x*x^{**6}*n*(e*x) \\
& **m/(m^{**8} + 28*m^{**7}*n + 8*m^{**7} + 322*m^{**6}*n^{**2} + 196*m^{**6}*n + 28*m^{**6} + 196 \\
& 0*m^{**5}*n^{**3} + 1932*m^{**5}*n^{**2} + 588*m^{**5}*n + 56*m^{**5} + 6769*m^{**4}*n^{**4} + 9800 \\
& *m^{**4}*n^{**3} + 4830*m^{**4}*n^{**2} + 980*m^{**4}*n + 70*m^{**4} + 13132*m^{**3}*n^{**5} + 2707 \\
& 6*m^{**3}*n^{**4} + 19600*m^{**3}*n^{**3} + 6440*m^{**3}*n^{**2} + 980*m^{**3}*n + 56*m^{**3} + 130 \\
& 68*m^{**2}*n^{**6} + 39396*m^{**2}*n^{**5} + 40614*m^{**2}*n^{**4} + 19600*m^{**2}*n^{**3} + 4830*m \\
& **2*n^{**2} + 588*m^{**2}*n + 28*m^{**2} + 5040*m*n^{**7} + 26136*m*n^{**6} + 39396*m*n^{**5} \\
& + 27076*m*n^{**4} + 9800*m*n^{**3} + 1932*m*n^{**2} + 196*m*n + 8*m + 5040*n^{**7} + 1
\end{aligned}$$

$3068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) + 166$
 $41B^3c^2m^4x^{6n}(ex)^m/(m^8 + 28m^7n + 8m^7 + 32$
 $2m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m$
 $m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m$
 $m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 644$
 $0m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40$
 $614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5$
 $040m^2n^7 + 26136m^2n^6 + 39396m^2n^5 + 27076m^2n^4 + 9800m^2n^3 + 193$
 $2m^2n^2 + 196m^2n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4$
 $+ 1960n^3 + 322n^2 + 28n + 1) + 9840B^3c^2m^3x^{6n}(e$
 $x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 +$
 $1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 +$
 $9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 +$
 $27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 +$
 $13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 48$
 $30m^2n^2 + 588m^2n + 28m^2 + 5040m^2n^7 + 26136m^2n^6 + 39396m$
 $n^5 + 27076m^2n^4 + 9800m^2n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040n^7$
 $+ 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) +$
 $2850B^3c^2m^2x^{6n}(ex)^m/(m^8 + 28m^7n + 8m^7 +$
 $322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 5$
 $88m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 98$
 $0m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 +$
 $6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 +$
 $40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2$
 $+ 5040m^2n^7 + 26136m^2n^6 + 39396m^2n^5 + 27076m^2n^4 + 9800m^2n^3 +$
 $1932m^2n^2 + 196m^2n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n$
 $m^4 + 1960n^3 + 322n^2 + 28n + 1) + 396B^3c^2m^2x^{6n}(e$
 $x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 +$
 $1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9$
 $800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 2$
 $7076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 +$
 $13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 483$
 $0m^2n^2 + 588m^2n + 28m^2 + 5040m^2n^7 + 26136m^2n^6 + 39396m^2n$
 $n^5 + 27076m^2n^4 + 9800m^2n^3 + 1932m^2n^2 + 196m^2n + 8m + 5040n^7$
 $+ 13068n^6 + 13132n^5 + 6769n^4 + 1960n^3 + 322n^2 + 28n + 1) +$
 $21B^3c^2m^2x^{6n}(ex)^m/(m^8 + 28m^7n + 8m^7 + 322m^6$
 $n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n$
 $n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n$
 $+ 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3$
 $n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m$
 $m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 + 5040m$
 $n^7 + 26136m^2n^6 + 39396m^2n^5 + 27076m^2n^4 + 9800m^2n^3 + 1932m^2n$
 $n^2 + 196m^2n + 8m + 5040n^7 + 13068n^6 + 13132n^5 + 6769n^4 + 196$
 $0n^3 + 322n^2 + 28n + 1) + 2520B^3c^2m^2x^{6n}(ex)^m$
 $/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m$

$$\begin{aligned}
& **5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m** \\
& *4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m \\
& **3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068* \\
& m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2 \\
& *n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + \\
& 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 1306 \\
& 8*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 6114*B \\
& *b**3*c*d**2*n**5*x*x**(6*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6 \\
& *n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n \\
& + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n \\
& + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3 \\
& *n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m** \\
& *2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m* \\
& n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n* \\
& *2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960 \\
& *n**3 + 322*n**2 + 28*n + 1) + 5547*B*b**3*c*d**2*n**4*x*x**(6*n)*(e*x)**m/ \\
& (m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m** \\
& *5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m** \\
& 4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m** \\
& *3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m \\
& **2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2* \\
& n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 2 \\
& 7076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068 \\
& *n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 2460*B* \\
& b**3*c*d**2*n**3*x*x**(6*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n \\
& **2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n \\
& + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + \\
& 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3* \\
& n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m** \\
& 2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n \\
& **7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n** \\
& 2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960* \\
& n**3 + 322*n**2 + 28*n + 1) + 570*B*b**3*c*d**2*n**2*x*x**(6*n)*(e*x)**m/(m \\
& **8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5 \\
& *n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4* \\
& n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3 \\
& *n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m** \\
& 2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n* \\
& *2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 270 \\
& 76*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n \\
& **6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 66*B*b**3 \\
& *c*d**2*n*x*x**(6*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + \\
& 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m** \\
& *5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m** \\
& 4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 +
\end{aligned}$$

$980m^{3n} + 56m^3 + 13068m^{2n+6} + 39396m^{2n+5} + 40614m^{2n+4}$
 $+ 19600m^{2n+3} + 4830m^{2n+2} + 588m^{2n} + 28m^2 + 5040m^{n+7} + 2$
 $6136m^{n+6} + 39396m^{n+5} + 27076m^{n+4} + 9800m^{n+3} + 1932m^{n+2} + 196$
 $m^n + 8m + 5040n^{n+7} + 13068n^{n+6} + 13132n^{n+5} + 6769n^{n+4} + 1960n^{n+3} +$
 $322n^{n+2} + 28n + 1) + 3B^3cd^2xxx(6n)(e^x)^m/(m^8 + 28m^7n$
 $+ 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m$
 $^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m$
 $^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600$
 $m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396$
 $m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n$
 $+ 28m^2 + 5040m^{n+7} + 26136m^{n+6} + 39396m^{n+5} + 27076m^{n+4} + 98$
 $00m^{n+3} + 1932m^{n+2} + 196m^n + 8m + 5040n^{n+7} + 13068n^{n+6} + 13132n^{n+}$
 $5 + 6769n^{n+4} + 1960n^{n+3} + 322n^{n+2} + 28n + 1) + B^3d^3m^7xxx($
 $7n)(e^x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28$
 $m^6 + 1960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n$
 $^4 + 9800m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n$
 $^5 + 27076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56$
 $m^3 + 13068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3$
 $+ 4830m^2n^2 + 588m^2n + 28m^2 + 5040m^{n+7} + 26136m^{n+6} + 39$
 $396m^{n+5} + 27076m^{n+4} + 9800m^{n+3} + 1932m^{n+2} + 196m^n + 8m + 504$
 $0n^{n+7} + 13068n^{n+6} + 13132n^{n+5} + 6769n^{n+4} + 1960n^{n+3} + 322n^{n+2} + 28n$
 $+ 1) + 21B^3d^3m^6n^7xxx(7n)(e^x)^m/(m^8 + 28m^7n + 8m^7$
 $+ 322m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 +$
 $588m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 +$
 $980m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3$
 $+ 6440m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5$
 $+ 40614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2$
 $+ 5040m^{n+7} + 26136m^{n+6} + 39396m^{n+5} + 27076m^{n+4} + 9800m^{n+3}$
 $+ 1932m^{n+2} + 196m^n + 8m + 5040n^{n+7} + 13068n^{n+6} + 13132n^{n+5} + 6769n^{n+}$
 $4 + 1960n^{n+3} + 322n^{n+2} + 28n + 1) + 7B^3d^3m^6n^7xxx(7n)(e$
 $x)^m/(m^8 + 28m^7n + 8m^7 + 322m^6n^2 + 196m^6n + 28m^6 + 1$
 $960m^5n^3 + 1932m^5n^2 + 588m^5n + 56m^5 + 6769m^4n^4 + 98$
 $00m^4n^3 + 4830m^4n^2 + 980m^4n + 70m^4 + 13132m^3n^5 + 27$
 $076m^3n^4 + 19600m^3n^3 + 6440m^3n^2 + 980m^3n + 56m^3 + 1$
 $3068m^2n^6 + 39396m^2n^5 + 40614m^2n^4 + 19600m^2n^3 + 4830$
 $m^2n^2 + 588m^2n + 28m^2 + 5040m^{n+7} + 26136m^{n+6} + 39396m^{n+}$
 $5 + 27076m^{n+4} + 9800m^{n+3} + 1932m^{n+2} + 196m^n + 8m + 5040n^{n+7} +$
 $13068n^{n+6} + 13132n^{n+5} + 6769n^{n+4} + 1960n^{n+3} + 322n^{n+2} + 28n + 1) + 1$
 $75B^3d^3m^5n^7xxx(7n)(e^x)^m/(m^8 + 28m^7n + 8m^7 + 3$
 $22m^6n^2 + 196m^6n + 28m^6 + 1960m^5n^3 + 1932m^5n^2 + 588$
 $m^5n + 56m^5 + 6769m^4n^4 + 9800m^4n^3 + 4830m^4n^2 + 980$
 $m^4n + 70m^4 + 13132m^3n^5 + 27076m^3n^4 + 19600m^3n^3 + 64$
 $40m^3n^2 + 980m^3n + 56m^3 + 13068m^2n^6 + 39396m^2n^5 + 4$
 $0614m^2n^4 + 19600m^2n^3 + 4830m^2n^2 + 588m^2n + 28m^2 +$
 $5040m^{n+7} + 26136m^{n+6} + 39396m^{n+5} + 27076m^{n+4} + 9800m^{n+3} + 19$

$$\begin{aligned}
& 32*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 \\
& + 1960*n**3 + 322*n**2 + 28*n + 1) + 126*B*b**3*d**3*m**5*n*x*x**(7*n)*(e \\
& x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1 \\
& 960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 98 \\
& 00*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27 \\
& 076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 1 \\
& 3068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830 \\
& *m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n* \\
& *5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + \\
& 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 2 \\
& 1*B*b**3*d**3*m**5*x*x**(7*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m** \\
& 6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5* \\
& n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n \\
& + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m** \\
& 3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m \\
& **2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m \\
& *n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n \\
& **2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 196 \\
& 0*n**3 + 322*n**2 + 28*n + 1) + 735*B*b**3*d**3*m**4*n**3*x*x**(7*n)*(e*x)* \\
& *m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960 \\
& *m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800* \\
& m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076 \\
& *m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 1306 \\
& 8*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m* \\
& *2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 \\
& + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13 \\
& 068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 875* \\
& B*b**3*d**3*m**4*n**2*x*x**(7*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322* \\
& m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m* \\
& *5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m** \\
& 4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440* \\
& m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 4061 \\
& 4*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 504 \\
& 0*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932* \\
& m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + \\
& 1960*n**3 + 322*n**2 + 28*n + 1) + 315*B*b**3*d**3*m**4*n*x*x**(7*n)*(e*x)* \\
& *m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960 \\
& *m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800* \\
& m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076 \\
& *m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 1306 \\
& 8*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m* \\
& *2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 \\
& + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13 \\
& 068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 35*B \\
& *b**3*d**3*m**4*x*x**(7*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n
\end{aligned}$$

$$\begin{aligned}
& **2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + \\
& 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + \\
& 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n \\
& **2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2 \\
& *n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n* \\
& *7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 \\
& + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n \\
& **3 + 322*n**2 + 28*n + 1) + 1624*B*b**3*d**3*m**3*n**4*x*x**(7*n)*(e*x)**m \\
& / (m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m \\
& **5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m \\
& *4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m \\
& **3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068* \\
& m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2 \\
& *n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + \\
& 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 1306 \\
& 8*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 2940*B \\
& *b**3*d**3*m**3*n**3*x*x**(7*n)*(e*x)**m / (m**8 + 28*m**7*n + 8*m**7 + 322*m \\
& **6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m** \\
& 5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4 \\
& *n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m \\
& **3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614 \\
& *m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040 \\
& *m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m \\
& *n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1 \\
& 960*n**3 + 322*n**2 + 28*n + 1) + 1750*B*b**3*d**3*m**3*n**2*x*x**(7*n)*(e \\
& x)**m / (m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1 \\
& 960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 98 \\
& 00*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27 \\
& 076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 1 \\
& 3068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830 \\
& *m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n* \\
& *5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + \\
& 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 4 \\
& 20*B*b**3*d**3*m**3*n*x*x**(7*n)*(e*x)**m / (m**8 + 28*m**7*n + 8*m**7 + 322* \\
& m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m* \\
& *5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m** \\
& 4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440* \\
& m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 4061 \\
& 4*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 504 \\
& 0*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932* \\
& m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + \\
& 1960*n**3 + 322*n**2 + 28*n + 1) + 35*B*b**3*d**3*m**3*x*x**(7*n)*(e*x)**m / \\
& (m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m* \\
& **5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m** \\
& 4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m*
\end{aligned}$$

$$\begin{aligned}
& *3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m \\
& **2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2* \\
& n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 2 \\
& 7076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068 \\
& *n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 1764*B* \\
& b**3*d**3*m**2*n**5*x*x**(7*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m* \\
& *6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5 \\
& *n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4* \\
& n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m* \\
& *3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614* \\
& m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040* \\
& m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m* \\
& n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 19 \\
& 60*n**3 + 322*n**2 + 28*n + 1) + 4872*B*b**3*d**3*m**2*n**4*x*x**(7*n)*(e*x \\
&)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 19 \\
& 60*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 980 \\
& 0*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 270 \\
& 76*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13 \\
& 068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830* \\
& m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n** \\
& 5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + \\
& 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 44 \\
& 10*B*b**3*d**3*m**2*n**3*x*x**(7*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 3 \\
& 22*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588 \\
& *m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980* \\
& m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 64 \\
& 40*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 4 \\
& 0614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + \\
& 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 19 \\
& 32*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 \\
& + 1960*n**3 + 322*n**2 + 28*n + 1) + 1750*B*b**3*d**3*m**2*n**2*x*x**(7*n) \\
& *(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 \\
& + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 \\
& + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 \\
& + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 \\
& + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + \\
& 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396* \\
& m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n* \\
& *7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) \\
& + 315*B*b**3*d**3*m**2*n*x*x**(7*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + \\
& 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 58 \\
& 8*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980 \\
& *m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6 \\
& 440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + \\
& 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 +
\end{aligned}$$

$$\begin{aligned}
& 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1 \\
& 932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n** \\
& 4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 21*B*b**3*d**3*m**2*x*x**(7*n)*(e*x) \\
& **m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 196 \\
& 0*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800 \\
& *m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 2707 \\
& 6*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 130 \\
& 68*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m \\
& **2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 \\
& + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 1 \\
& 3068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 720 \\
& *B*b**3*d**3*m*n**6*x*x**(7*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m \\
& **6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5 \\
& *n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n \\
& n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m \\
& **3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614* \\
& m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040* \\
& m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m \\
& n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 19 \\
& 60*n**3 + 322*n**2 + 28*n + 1) + 3528*B*b**3*d**3*m*n**5*x*x**(7*n)*(e*x)** \\
& m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960* \\
& m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m \\
& **4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076* \\
& m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068 \\
& *m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m** \\
& 2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + \\
& 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 130 \\
& 68*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 4872* \\
& B*b**3*d**3*m*n**4*x*x**(7*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m** \\
& 6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5* \\
& n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n \\
& + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m** \\
& 3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m \\
& **2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m \\
& *n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n \\
& **2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 196 \\
& 0*n**3 + 322*n**2 + 28*n + 1) + 2940*B*b**3*d**3*m*n**3*x*x**(7*n)*(e*x)**m \\
& /(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m \\
& **5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m \\
& **4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m \\
& **3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068* \\
& m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2 \\
& *n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + \\
& 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 1306 \\
& 8*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 875*B*
\end{aligned}$$


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2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n
**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*
n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28
*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n
**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6
769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 735*B*b**3*d**3*n**3*x*x** (7*
n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m
**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**
4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**
5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m
**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3
+ 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 3939
6*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*
n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n +
1) + 175*B*b**3*d**3*n**2*x*x** (7*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 +
322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 58
8*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980
*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6
440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 +
40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 +
5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1
932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**
4 + 1960*n**3 + 322*n**2 + 28*n + 1) + 21*B*b**3*d**3*n*x*x** (7*n)*(e*x)**m
/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*m**6*n + 28*m**6 + 1960*m
**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 + 6769*m**4*n**4 + 9800*m
**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 + 13132*m**3*n**5 + 27076*m
**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*m**3*n + 56*m**3 + 13068*
m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19600*m**2*n**3 + 4830*m**2
*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136*m*n**6 + 39396*m*n**5 +
27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n + 8*m + 5040*n**7 + 1306
8*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*n**2 + 28*n + 1) + B*b**3
*d**3*x*x** (7*n)*(e*x)**m/(m**8 + 28*m**7*n + 8*m**7 + 322*m**6*n**2 + 196*
m**6*n + 28*m**6 + 1960*m**5*n**3 + 1932*m**5*n**2 + 588*m**5*n + 56*m**5 +
6769*m**4*n**4 + 9800*m**4*n**3 + 4830*m**4*n**2 + 980*m**4*n + 70*m**4 +
13132*m**3*n**5 + 27076*m**3*n**4 + 19600*m**3*n**3 + 6440*m**3*n**2 + 980*
m**3*n + 56*m**3 + 13068*m**2*n**6 + 39396*m**2*n**5 + 40614*m**2*n**4 + 19
600*m**2*n**3 + 4830*m**2*n**2 + 588*m**2*n + 28*m**2 + 5040*m*n**7 + 26136
*m*n**6 + 39396*m*n**5 + 27076*m*n**4 + 9800*m*n**3 + 1932*m*n**2 + 196*m*n
+ 8*m + 5040*n**7 + 13068*n**6 + 13132*n**5 + 6769*n**4 + 1960*n**3 + 322*
n**2 + 28*n + 1), True))

```

Maxima [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 1032 vs. $2(410) = 820$.

Time = 0.30 (sec) , antiderivative size = 1032, normalized size of antiderivative = 2.52

$$\int (ex)^m (a + bx^n)^3 (A + Bx^n) (c + dx^n)^3 dx = \text{Too large to display}$$

```
[In] integrate((e*x)^m*(a+b*x^n)^3*(A+B*x^n)*(c+d*x^n)^3,x, algorithm="maxima")
[Out] B*b^3*d^3*e^m*x*e^(m*log(x) + 7*n*log(x))/(m + 7*n + 1) + 3*B*b^3*c*d^2*e^m
*x*e^(m*log(x) + 6*n*log(x))/(m + 6*n + 1) + 3*B*a*b^2*d^3*e^m*x*e^(m*log(x)
) + 6*n*log(x))/(m + 6*n + 1) + A*b^3*d^3*e^m*x*e^(m*log(x) + 6*n*log(x))/(
m + 6*n + 1) + 3*B*b^3*c^2*d*e^m*x*e^(m*log(x) + 5*n*log(x))/(m + 5*n + 1)
+ 9*B*a*b^2*c*d^2*e^m*x*e^(m*log(x) + 5*n*log(x))/(m + 5*n + 1) + 3*A*b^3*c
*d^2*e^m*x*e^(m*log(x) + 5*n*log(x))/(m + 5*n + 1) + 3*B*a^2*b*d^3*e^m*x*e^
(m*log(x) + 5*n*log(x))/(m + 5*n + 1) + 3*A*a*b^2*d^3*e^m*x*e^(m*log(x) + 5
*n*log(x))/(m + 5*n + 1) + B*b^3*c^3*e^m*x*e^(m*log(x) + 4*n*log(x))/(m + 4
*n + 1) + 9*B*a*b^2*c^2*d*e^m*x*e^(m*log(x) + 4*n*log(x))/(m + 4*n + 1) + 3
*A*b^3*c^2*d*e^m*x*e^(m*log(x) + 4*n*log(x))/(m + 4*n + 1) + 9*B*a^2*b*c*d^
2*e^m*x*e^(m*log(x) + 4*n*log(x))/(m + 4*n + 1) + 9*A*a*b^2*c*d^2*e^m*x*e^
(m*log(x) + 4*n*log(x))/(m + 4*n + 1) + B*a^3*d^3*e^m*x*e^(m*log(x) + 4*n*lo
g(x))/(m + 4*n + 1) + 3*A*a^2*b*d^3*e^m*x*e^(m*log(x) + 4*n*log(x))/(m + 4*
n + 1) + 3*B*a*b^2*c^3*e^m*x*e^(m*log(x) + 3*n*log(x))/(m + 3*n + 1) + A*b^
3*c^3*e^m*x*e^(m*log(x) + 3*n*log(x))/(m + 3*n + 1) + 9*B*a^2*b*c^2*d*e^m*x
*e^(m*log(x) + 3*n*log(x))/(m + 3*n + 1) + 9*A*a*b^2*c^2*d*e^m*x*e^(m*log(x)
) + 3*n*log(x))/(m + 3*n + 1) + 3*B*a^3*c*d^2*e^m*x*e^(m*log(x) + 3*n*log(x)
))/(m + 3*n + 1) + 9*A*a^2*b*c*d^2*e^m*x*e^(m*log(x) + 3*n*log(x))/(m + 3*n
+ 1) + A*a^3*d^3*e^m*x*e^(m*log(x) + 3*n*log(x))/(m + 3*n + 1) + 3*B*a^2*b
*c^3*e^m*x*e^(m*log(x) + 2*n*log(x))/(m + 2*n + 1) + 3*A*a*b^2*c^3*e^m*x*e^
(m*log(x) + 2*n*log(x))/(m + 2*n + 1) + 3*B*a^3*c^2*d*e^m*x*e^(m*log(x) + 2
*n*log(x))/(m + 2*n + 1) + 9*A*a^2*b*c^2*d*e^m*x*e^(m*log(x) + 2*n*log(x))/
(m + 2*n + 1) + 3*A*a^3*c*d^2*e^m*x*e^(m*log(x) + 2*n*log(x))/(m + 2*n + 1)
+ B*a^3*c^3*e^m*x*e^(m*log(x) + n*log(x))/(m + n + 1) + 3*A*a^2*b*c^3*e^m*
x*e^(m*log(x) + n*log(x))/(m + n + 1) + 3*A*a^3*c^2*d*e^m*x*e^(m*log(x) + n
*log(x))/(m + n + 1) + (e*x)^(m + 1)*A*a^3*c^3/(e*(m + 1))
```

Giac [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 143220 vs. $2(410) = 820$.

Time = 1.81 (sec) , antiderivative size = 143220, normalized size of antiderivative = 349.32

$$\int (ex)^m (a + bx^n)^3 (A + Bx^n) (c + dx^n)^3 dx = \text{Too large to display}$$

```
[In] integrate((e*x)^m*(a+b*x^n)^3*(A+B*x^n)*(c+d*x^n)^3,x, algorithm="giac")
[Out] (B*b^3*d^3*m^7*x*x^(7*n)*e^(m*log(e) + m*log(x)) + 21*B*b^3*d^3*m^6*n*x*x^(
7*n)*e^(m*log(e) + m*log(x)) + 175*B*b^3*d^3*m^5*n^2*x*x^(7*n)*e^(m*log(e)
+ m*log(x)) + 735*B*b^3*d^3*m^4*n^3*x*x^(7*n)*e^(m*log(e) + m*log(x)) + 162
4*B*b^3*d^3*m^3*n^4*x*x^(7*n)*e^(m*log(e) + m*log(x)) + 1764*B*b^3*d^3*m^2*
n^5*x*x^(7*n)*e^(m*log(e) + m*log(x)) + 720*B*b^3*d^3*m*n^6*x*x^(7*n)*e^(m*
log(e) + m*log(x)) + 3*B*b^3*c*d^2*m^7*x*x^(6*n)*e^(m*log(e) + m*log(x)) +
3*B*a*b^2*d^3*m^7*x*x^(6*n)*e^(m*log(e) + m*log(x)) + A*b^3*d^3*m^7*x*x^(6*
n)*e^(m*log(e) + m*log(x)) + B*b^3*d^3*m^7*x*x^(6*n)*e^(m*log(e) + m*log(x)
) + 66*B*b^3*c*d^2*m^6*n*x*x^(6*n)*e^(m*log(e) + m*log(x)) + 66*B*a*b^2*d^3
*m^6*n*x*x^(6*n)*e^(m*log(e) + m*log(x)) + 22*A*b^3*d^3*m^6*n*x*x^(6*n)*e^(
m*log(e) + m*log(x)) + 21*B*b^3*d^3*m^6*n*x*x^(6*n)*e^(m*log(e) + m*log(x))
+ 570*B*b^3*c*d^2*m^5*n^2*x*x^(6*n)*e^(m*log(e) + m*log(x)) + 570*B*a*b^2*
d^3*m^5*n^2*x*x^(6*n)*e^(m*log(e) + m*log(x)) + 190*A*b^3*d^3*m^5*n^2*x*x^(
6*n)*e^(m*log(e) + m*log(x)) + 175*B*b^3*d^3*m^5*n^2*x*x^(6*n)*e^(m*log(e)
+ m*log(x)) + 2460*B*b^3*c*d^2*m^4*n^3*x*x^(6*n)*e^(m*log(e) + m*log(x)) +
2460*B*a*b^2*d^3*m^4*n^3*x*x^(6*n)*e^(m*log(e) + m*log(x)) + 820*A*b^3*d^3*
m^4*n^3*x*x^(6*n)*e^(m*log(e) + m*log(x)) + 735*B*b^3*d^3*m^4*n^3*x*x^(6*n)
*e^(m*log(e) + m*log(x)) + 5547*B*b^3*c*d^2*m^3*n^4*x*x^(6*n)*e^(m*log(e) +
m*log(x)) + 5547*B*a*b^2*d^3*m^3*n^4*x*x^(6*n)*e^(m*log(e) + m*log(x)) + 1
849*A*b^3*d^3*m^3*n^4*x*x^(6*n)*e^(m*log(e) + m*log(x)) + 1624*B*b^3*d^3*m^
3*n^4*x*x^(6*n)*e^(m*log(e) + m*log(x)) + 6114*B*b^3*c*d^2*m^2*n^5*x*x^(6*n)
)*e^(m*log(e) + m*log(x)) + 6114*B*a*b^2*d^3*m^2*n^5*x*x^(6*n)*e^(m*log(e)
+ m*log(x)) + 2038*A*b^3*d^3*m^2*n^5*x*x^(6*n)*e^(m*log(e) + m*log(x)) + 17
64*B*b^3*d^3*m^2*n^5*x*x^(6*n)*e^(m*log(e) + m*log(x)) + 2520*B*b^3*c*d^2*m
*n^6*x*x^(6*n)*e^(m*log(e) + m*log(x)) + 2520*B*a*b^2*d^3*m*n^6*x*x^(6*n)*e
^(m*log(e) + m*log(x)) + 840*A*b^3*d^3*m*n^6*x*x^(6*n)*e^(m*log(e) + m*log(
x)) + 720*B*b^3*d^3*m*n^6*x*x^(6*n)*e^(m*log(e) + m*log(x)) + 3*B*b^3*c^2*d
*m^7*x*x^(5*n)*e^(m*log(e) + m*log(x)) + 9*B*a*b^2*c*d^2*m^7*x*x^(5*n)*e^(m
*log(e) + m*log(x)) + 3*A*b^3*c*d^2*m^7*x*x^(5*n)*e^(m*log(e) + m*log(x)) +
3*B*b^3*c*d^2*m^7*x*x^(5*n)*e^(m*log(e) + m*log(x)) + 3*B*a^2*b*d^3*m^7*x*
x^(5*n)*e^(m*log(e) + m*log(x)) + 3*A*a*b^2*d^3*m^7*x*x^(5*n)*e^(m*log(e) +
m*log(x)) + 3*B*a*b^2*d^3*m^7*x*x^(5*n)*e^(m*log(e) + m*log(x)) + A*b^3*d^
3*m^7*x*x^(5*n)*e^(m*log(e) + m*log(x)) + B*b^3*d^3*m^7*x*x^(5*n)*e^(m*log(
e) + m*log(x)) + 69*B*b^3*c^2*d*m^6*n*x*x^(5*n)*e^(m*log(e) + m*log(x)) + 2
07*B*a*b^2*c*d^2*m^6*n*x*x^(5*n)*e^(m*log(e) + m*log(x)) + 69*A*b^3*c*d^2*m
```

$$\begin{aligned}
& ^6n*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 66*B*b^3*c*d^2*m^6n*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 69*B*a^2*b*d^3*m^6n*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 69*A*a*b^2*d^3*m^6n*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 66*B*a*b^2*d^3*m^6n*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 22*A*b^3*d^3*m^6n*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 21*B*b^3*d^3*m^6n*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 621*B*b^3*c^2*d*m^5n^2*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 1863*B*a*b^2*c*d^2*m^5n^2*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 621*A*b^3*c*d^2*m^5n^2*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 570*B*b^3*c*d^2*m^5n^2*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 621*B*a^2*b*d^3*m^5n^2*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 621*A*a*b^2*d^3*m^5n^2*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 570*B*a*b^2*d^3*m^5n^2*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 190*A*b^3*d^3*m^5n^2*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 175*B*b^3*d^3*m^5n^2*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 2775*B*b^3*c^2*d*m^4n^3*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 8325*B*a*b^2*c*d^2*m^4n^3*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 2775*A*b^3*c*d^2*m^4n^3*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 2460*B*b^3*c*d^2*m^4n^3*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 2775*B*a^2*b*d^3*m^4n^3*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 2775*A*a*b^2*d^3*m^4n^3*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 2460*B*a*b^2*d^3*m^4n^3*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 820*A*b^3*d^3*m^4n^3*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 735*B*b^3*d^3*m^4n^3*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 6432*B*b^3*c^2*d*m^3n^4*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 19296*B*a*b^2*c*d^2*m^3n^4*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 6432*A*b^3*c*d^2*m^3n^4*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 5547*B*b^3*c*d^2*m^3n^4*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 6432*B*a^2*b*d^3*m^3n^4*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 6432*A*a*b^2*d^3*m^3n^4*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 5547*B*a*b^2*d^3*m^3n^4*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 1849*A*b^3*d^3*m^3n^4*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 1624*B*b^3*d^3*m^3n^4*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 7236*B*b^3*c^2*d*m^2n^5*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 21708*B*a*b^2*c*d^2*m^2n^5*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 7236*A*b^3*c*d^2*m^2n^5*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 6114*B*b^3*c*d^2*m^2n^5*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 7236*B*a^2*b*d^3*m^2n^5*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 7236*A*a*b^2*d^3*m^2n^5*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 6114*B*a*b^2*d^3*m^2n^5*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 2038*A*b^3*d^3*m^2n^5*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 1764*B*b^3*d^3*m^2n^5*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 3024*B*b^3*c^2*d*m*n^6*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 9072*B*a*b^2*c*d^2*m*n^6*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 3024*A*b^3*c*d^2*m*n^6*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 2520*B*b^3*c*d^2*m*n^6*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 3024*B*a^2*b*d^3*m*n^6*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 3024*A*a*b^2*d^3*m*n^6*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 2520*B*a*b^2*d^3*m*n^6*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 840*A*b^3*d^3*m*n^6*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + 720*B*b^3*d^3*m*n^6*x*x^{(5n)}*e^{(m*\log(e) + m*\log(x))} + B*b^3*c^3*m^7*x*x^{(4n)}*e^{(m*\log(e) + m*\log(x))} + 9*B*a*b^2*c^2*d*m^7*x*x^{(4n)}*e^{(m*\log(e) + m*\log(x))} + 3*A*b^3*c^2*d*m^7*x*x^{(4n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*b^3*c^2*d*m^7*x*x^{(4n)}*e^{(m*\log(e) + m*\log(x))} + 9*B*a^2*b*c*d^2*m^7*x*x^{(4n)}*e^{(m*\log(e) + m*\log(x))} + 9*A*a*b^2*c*d^2*m^7
\end{aligned}$$

$$\begin{aligned}
& *x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 9*B*a*b^2*c*d^2*m^7*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 3*A*b^3*c*d^2*m^7*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 3*B \\
& *b^3*c*d^2*m^7*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + B*a^3*d^3*m^7*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 3*A*a^2*b*d^3*m^7*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 3*B*a^2*b*d^3*m^7*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 3*A*a*b^2*d^3*m^7 \\
& *x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 3*B*a*b^2*d^3*m^7*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + A*b^3*d^3*m^7*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + B*b^3*d^3 \\
& *m^7*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 24*B*b^3*c^3*m^6*n*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 216*B*a*b^2*c^2*d*m^6*n*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 72*A*b^3*c^2*d*m^6*n*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 69*B*b^3*c^2 \\
& *d*m^6*n*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 216*B*a^2*b*c*d^2*m^6*n*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 216*A*a*b^2*c*d^2*m^6*n*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 207*B*a*b^2*c*d^2*m^6*n*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + \\
& 69*A*b^3*c*d^2*m^6*n*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 66*B*b^3*c*d^2*m^6 \\
& *n*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 24*B*a^3*d^3*m^6*n*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 72*A*a^2*b*d^3*m^6*n*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 69*B*a^2*b*d^3*m^6*n*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 69*A*a*b^2*d^3*m^6 \\
& *n*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 66*B*a*b^2*d^3*m^6*n*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 22*A*b^3*d^3*m^6*n*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 21*B*b^3*d^3*m^6*n*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 226*B*b^3*c^3*m^5 \\
& *n^2*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 2034*B*a*b^2*c^2*d*m^5*n^2*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 678*A*b^3*c^2*d*m^5*n^2*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 621*B*b^3*c^2*d*m^5*n^2*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 2 \\
& 034*B*a^2*b*c*d^2*m^5*n^2*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 2034*A*a*b^2*c \\
& *d^2*m^5*n^2*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 1863*B*a*b^2*c*d^2*m^5*n^2 \\
& *x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 621*A*b^3*c*d^2*m^5*n^2*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 570*B*b^3*c*d^2*m^5*n^2*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 226*B*a^3*d^3*m^5*n^2*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 678*A*a^2 \\
& *b*d^3*m^5*n^2*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 621*B*a^2*b*d^3*m^5*n^2 \\
& *x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 621*A*a*b^2*d^3*m^5*n^2*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 570*B*a*b^2*d^3*m^5*n^2*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 190*A*b^3*d^3*m^5*n^2*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 175*B*b^3*d^3 \\
& *m^5*n^2*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 1056*B*b^3*c^3*m^4*n^3*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 9504*B*a*b^2*c^2*d*m^4*n^3*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 3168*A*b^3*c^2*d*m^4*n^3*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 2775*B*b^3*c^2*d*m^4*n^3*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 9504*B*a^2 \\
& *b*c*d^2*m^4*n^3*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 9504*A*a*b^2*c*d^2*m^4 \\
& *n^3*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 8325*B*a*b^2*c*d^2*m^4*n^3*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 2775*A*b^3*c*d^2*m^4*n^3*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 2460*B*b^3*c*d^2*m^4*n^3*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 1056*B*a^3*d^3*m^4*n^3*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 3168*A*a^2*b*d^3 \\
& *m^4*n^3*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 2775*B*a^2*b*d^3*m^4*n^3*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 2775*A*a*b^2*d^3*m^4*n^3*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 2460*B*a*b^2*d^3*m^4*n^3*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 820*A*b^3*d^3*m^4*n^3*x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 735*B*b^3*d^3
\end{aligned}$$

$3m^4n^3xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 2545B^3c^3m^3n^4xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 22905B^2a^2b^2c^2d^2m^3n^4xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 7635A^3b^3c^2d^2m^3n^4xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 6432B^3b^3c^2d^2m^3n^4xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 22905B^2a^2b^2c^2d^2m^3n^4xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 19296B^2a^2b^2c^2d^2m^3n^4xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 6432A^3b^3c^2d^2m^3n^4xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 5547B^3b^3c^2d^2m^3n^4xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 2545B^3a^3d^3m^3n^4xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 7635A^2b^2d^3m^3n^4xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 6432B^2a^2b^2d^3m^3n^4xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 5547B^2a^2b^2d^3m^3n^4xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 1849A^3b^3d^3m^3n^4xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 1624B^3b^3d^3m^3n^4xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 2952B^3b^3c^3m^2n^5xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 26568B^2a^2b^2c^2d^2m^2n^5xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 8856A^3b^3c^2d^2m^2n^5xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 7236B^3b^3c^2d^2m^2n^5xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 26568B^2a^2b^2c^2d^2m^2n^5xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 21708B^2a^2b^2c^2d^2m^2n^5xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 7236A^3b^3c^2d^2m^2n^5xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 6114B^3b^3c^2d^2m^2n^5xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 2952B^2a^3d^3m^2n^5xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 8856A^2a^2b^2d^3m^2n^5xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 7236B^2a^2b^2d^3m^2n^5xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 7236A^2a^2b^2d^3m^2n^5xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 6114B^2a^2b^2d^3m^2n^5xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 2038A^3b^3d^3m^2n^5xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 1764B^3b^3d^3m^2n^5xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 1260B^3b^3c^3m^2n^6xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 11340B^2a^2b^2c^2d^2m^2n^6xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 3780A^3b^3c^2d^2m^2n^6xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 3024B^3b^3c^2d^2m^2n^6xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 11340B^2a^2b^2c^2d^2m^2n^6xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 11340A^2a^2b^2c^2d^2m^2n^6xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 9072B^2a^2b^2c^2d^2m^2n^6xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 3024A^3b^3c^2d^2m^2n^6xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 2520B^3b^3c^2d^2m^2n^6xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 1260B^2a^3d^3m^2n^6xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 3780A^2a^2b^2d^3m^2n^6xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 3024B^2a^2b^2d^3m^2n^6xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 3024A^2a^2b^2d^3m^2n^6xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 2520B^2a^2b^2d^3m^2n^6xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 840A^3b^3d^3m^2n^6xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 720B^3b^3d^3m^2n^6xxx^{(4n)}e^{(m\log(e) + m\log(x))} + 3B^2a^2b^2c^3m^7xxx^{(3n)}e^{(m\log(e) + m\log(x))} + A^3b^3c^3m^7xxx^{(3n)}e^{(m\log(e) + m\log(x))} + B^3b^3c^3m^7xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 9B^2a^2b^2c^2d^2m^7xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 9A^2a^2b^2c^2d^2m^7xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 9B^2a^2b^2c^2d^2m^7xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 3A^3b^3c^2d^2m^7xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 3B^3b^3c^2d^2m^7xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 3B^3b^3c^2d^2m^7xxx^{(3n)}e^{(m\log(e) + m\log(x))} + m\log($

$x)) + 3*B*a^3*c*d^2*m^7*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 9*A*a^2*b*c*d^2$
 $*m^7*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 9*B*a^2*b*c*d^2*m^7*x*x^(3*n)*e^(m$
 $*log(e) + m*log(x)) + 9*A*a*b^2*c*d^2*m^7*x*x^(3*n)*e^(m*log(e) + m*log(x))$
 $+ 9*B*a*b^2*c*d^2*m^7*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 3*A*b^3*c*d^2*m^$
 $7*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 3*B*b^3*c*d^2*m^7*x*x^(3*n)*e^(m*log($
 $e) + m*log(x)) + A*a^3*d^3*m^7*x*x^(3*n)*e^(m*log(e) + m*log(x)) + B*a^3*d^$
 $3*m^7*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 3*A*a^2*b*d^3*m^7*x*x^(3*n)*e^(m*$
 $log(e) + m*log(x)) + 3*B*a^2*b*d^3*m^7*x*x^(3*n)*e^(m*log(e) + m*log(x)) +$
 $3*A*a*b^2*d^3*m^7*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 3*B*a*b^2*d^3*m^7*x*x$
 $^(3*n)*e^(m*log(e) + m*log(x)) + A*b^3*d^3*m^7*x*x^(3*n)*e^(m*log(e) + m*lo$
 $g(x)) + B*b^3*d^3*m^7*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 75*B*a*b^2*c^3*m^$
 $6*n*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 25*A*b^3*c^3*m^6*n*x*x^(3*n)*e^(m*1$
 $og(e) + m*log(x)) + 24*B*b^3*c^3*m^6*n*x*x^(3*n)*e^(m*log(e) + m*log(x)) +$
 $225*B*a^2*b*c^2*d*m^6*n*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 225*A*a*b^2*c^2$
 $*d*m^6*n*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 216*B*a*b^2*c^2*d*m^6*n*x*x^(3$
 $*n)*e^(m*log(e) + m*log(x)) + 72*A*b^3*c^2*d*m^6*n*x*x^(3*n)*e^(m*log(e) +$
 $m*log(x)) + 69*B*b^3*c^2*d*m^6*n*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 75*B*a$
 $^3*c*d^2*m^6*n*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 225*A*a^2*b*c*d^2*m^6*n*$
 $x*x^(3*n)*e^(m*log(e) + m*log(x)) + 216*B*a^2*b*c*d^2*m^6*n*x*x^(3*n)*e^(m*$
 $log(e) + m*log(x)) + 216*A*a*b^2*c*d^2*m^6*n*x*x^(3*n)*e^(m*log(e) + m*log($
 $x)) + 207*B*a*b^2*c*d^2*m^6*n*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 69*A*b^3*$
 $c*d^2*m^6*n*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 66*B*b^3*c*d^2*m^6*n*x*x^(3$
 $*n)*e^(m*log(e) + m*log(x)) + 25*A*a^3*d^3*m^6*n*x*x^(3*n)*e^(m*log(e) + m*$
 $log(x)) + 24*B*a^3*d^3*m^6*n*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 72*A*a^2*b$
 $*d^3*m^6*n*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 69*B*a^2*b*d^3*m^6*n*x*x^(3*$
 $n)*e^(m*log(e) + m*log(x)) + 69*A*a*b^2*d^3*m^6*n*x*x^(3*n)*e^(m*log(e) + m$
 $*log(x)) + 66*B*a*b^2*d^3*m^6*n*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 22*A*b^$
 $3*d^3*m^6*n*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 21*B*b^3*d^3*m^6*n*x*x^(3*n$
 $)*e^(m*log(e) + m*log(x)) + 741*B*a*b^2*c^3*m^5*n^2*x*x^(3*n)*e^(m*log(e) +$
 $m*log(x)) + 247*A*b^3*c^3*m^5*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 226*$
 $B*b^3*c^3*m^5*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 2223*B*a^2*b*c^2*d*m^$
 $5*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 2223*A*a*b^2*c^2*d*m^5*n^2*x*x^(3$
 $*n)*e^(m*log(e) + m*log(x)) + 2034*B*a*b^2*c^2*d*m^5*n^2*x*x^(3*n)*e^(m*log$
 $(e) + m*log(x)) + 678*A*b^3*c^2*d*m^5*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x))$
 $+ 621*B*b^3*c^2*d*m^5*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 741*B*a^3*c*$
 $d^2*m^5*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 2223*A*a^2*b*c*d^2*m^5*n^2*$
 $x*x^(3*n)*e^(m*log(e) + m*log(x)) + 2034*B*a^2*b*c*d^2*m^5*n^2*x*x^(3*n)*e^$
 $(m*log(e) + m*log(x)) + 2034*A*a*b^2*c*d^2*m^5*n^2*x*x^(3*n)*e^(m*log(e) +$
 $m*log(x)) + 1863*B*a*b^2*c*d^2*m^5*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) +$
 $621*A*b^3*c*d^2*m^5*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 570*B*b^3*c*d^2$
 $*m^5*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 247*A*a^3*d^3*m^5*n^2*x*x^(3*n$
 $)*e^(m*log(e) + m*log(x)) + 226*B*a^3*d^3*m^5*n^2*x*x^(3*n)*e^(m*log(e) + m$
 $*log(x)) + 678*A*a^2*b*d^3*m^5*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 621*$
 $B*a^2*b*d^3*m^5*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 621*A*a*b^2*d^3*m^5$
 $*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 570*B*a*b^2*d^3*m^5*n^2*x*x^(3*n)*$

$$\begin{aligned}
& e^{(m \log(e) + m \log(x))} + 190 * A * b^3 * d^3 * m^5 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 175 * B * b^3 * d^3 * m^5 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 3657 * B * a \\
& * b^2 * c^3 * m^4 * n^3 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 1219 * A * b^3 * c^3 * m^4 * n^3 \\
& * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 1056 * B * b^3 * c^3 * m^4 * n^3 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 10971 * B * a^2 * b * c^2 * d * m^4 * n^3 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 10971 * A * a * b^2 * c^2 * d * m^4 * n^3 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 9 \\
& 504 * B * a * b^2 * c^2 * d * m^4 * n^3 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 3168 * A * b^3 * c^2 * d * m^4 * n^3 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 2775 * B * b^3 * c^2 * d * m^4 * n^3 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 3657 * B * a^3 * c * d^2 * m^4 * n^3 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 10971 * A * a^2 * b * c * d^2 * m^4 * n^3 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 950 \\
& 4 * A * a * b^2 * c * d^2 * m^4 * n^3 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 8325 * B * a * b^2 * c * d^2 * m^4 * n^3 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 2775 * A * b^3 * c * d^2 * m^4 * n^3 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 2460 * B * b^3 * c * d^2 * m^4 * n^3 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 1219 * A * a^3 * d^3 * m^4 * n^3 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 1056 * B * a^3 * d^3 * m^4 * n^3 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 3168 * A * a^2 * b * d^3 * m^4 * n^3 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 2775 * B * a^2 * b * d^3 * m^4 * n^3 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 2775 * A * a * b^2 * d^3 * m^4 * n^3 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 2460 * B * a * b^2 * d^3 * m^4 * n^3 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 820 * A * b^3 * d^3 * m^4 * n^3 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 735 * B * b^3 * d^3 * m^4 * n^3 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 9336 * B * a * b^2 * c^3 * m^3 * n^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 3112 * A * b^3 * c^3 * m^3 * n^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 2545 * B * b^3 * c^3 * m^3 * n^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 28008 * B * a^2 * b * c^2 * d * m^3 * n^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 28008 * A * a * b^2 * c^2 * d * m^3 * n^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 22905 * B * a * b^2 * c^2 * d * m^3 * n^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 7635 * A * b^3 * c^2 * d * m^3 * n^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 6432 * B * b^3 * c^2 * d * m^3 * n^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 9336 * B * a^3 * c * d^2 * m^3 * n^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 28008 * A * a^2 * b * c * d^2 * m^3 * n^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 22905 * B * a^2 * b * c * d^2 * m^3 * n^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 22905 * A * a * b^2 * c * d^2 * m^3 * n^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 19296 * B * a * b^2 * c * d^2 * m^3 * n^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 6432 * A * b^3 * c * d^2 * m^3 * n^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 5547 * B * b^3 * c * d^2 * m^3 * n^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 3112 * A * a^3 * d^3 * m^3 * n^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 2545 * B * a^3 * d^3 * m^3 * n^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 7635 * A * a^2 * b * d^3 * m^3 * n^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 6432 * B * a^2 * b * d^3 * m^3 * n^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 6432 * A * a * b^2 * d^3 * m^3 * n^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 5547 * B * a * b^2 * d^3 * m^3 * n^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 1849 * A * b^3 * d^3 * m^3 * n^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 1624 * B * b^3 * d^3 * m^3 * n^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 11388 * B * a * b^2 * c^3 * m^2 * n^5 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 3796 * A * b^3 * c^3 * m^2 * n^5 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 2952 * B * b^3 * c^3 * m^2 * n^5 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 34164 * B * a^2 * b * c^2 * d * m^2 * n^5 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 34164 * A * a * b^2 * c^2 * d * m^2 * n^5 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 26568 * B * a * b^2 * c^2 * d * m^2 * n^5 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 8856 * A * b^3 * c^2 * d * m^2 * n^5 * x * x^{(3 * n)} * e^{(m \log
\end{aligned}$$

$$\begin{aligned}
& (e) + m \log(x)) + 7236 * B * b^3 * c^2 * d * m^2 * n^5 * x * x^{(3*n)} * e^{(m \log(e) + m \log(x))} \\
&) + 11388 * B * a^3 * c * d^2 * m^2 * n^5 * x * x^{(3*n)} * e^{(m \log(e) + m \log(x))} + 34164 * A * a \\
& ^2 * b * c * d^2 * m^2 * n^5 * x * x^{(3*n)} * e^{(m \log(e) + m \log(x))} + 26568 * B * a^2 * b * c * d^2 * \\
& m^2 * n^5 * x * x^{(3*n)} * e^{(m \log(e) + m \log(x))} + 26568 * A * a * b^2 * c * d^2 * m^2 * n^5 * x * x \\
& ^{(3*n)} * e^{(m \log(e) + m \log(x))} + 21708 * B * a * b^2 * c * d^2 * m^2 * n^5 * x * x^{(3*n)} * e^{(m \\
& * \log(e) + m * \log(x))} + 7236 * A * b^3 * c * d^2 * m^2 * n^5 * x * x^{(3*n)} * e^{(m * \log(e) + m * \log \\
& (x))} + 6114 * B * b^3 * c * d^2 * m^2 * n^5 * x * x^{(3*n)} * e^{(m * \log(e) + m * \log(x))} + 3796 * A \\
& * a^3 * d^3 * m^2 * n^5 * x * x^{(3*n)} * e^{(m * \log(e) + m * \log(x))} + 2952 * B * a^3 * d^3 * m^2 * n^5 \\
& * x * x^{(3*n)} * e^{(m * \log(e) + m * \log(x))} + 8856 * A * a^2 * b * d^3 * m^2 * n^5 * x * x^{(3*n)} * e^{(\\
& m * \log(e) + m * \log(x))} + 7236 * B * a^2 * b * d^3 * m^2 * n^5 * x * x^{(3*n)} * e^{(m * \log(e) + m * \log \\
& (x))} + 7236 * A * a * b^2 * d^3 * m^2 * n^5 * x * x^{(3*n)} * e^{(m * \log(e) + m * \log(x))} + 6114 * \\
& B * a * b^2 * d^3 * m^2 * n^5 * x * x^{(3*n)} * e^{(m * \log(e) + m * \log(x))} + 2038 * A * b^3 * d^3 * m^2 * n \\
& ^5 * x * x^{(3*n)} * e^{(m * \log(e) + m * \log(x))} + 1764 * B * b^3 * d^3 * m^2 * n^5 * x * x^{(3*n)} * e^{ \\
& (m * \log(e) + m * \log(x))} + 5040 * B * a * b^2 * c^3 * m * n^6 * x * x^{(3*n)} * e^{(m * \log(e) + m * \log \\
& (x))} + 1680 * A * b^3 * c^3 * m * n^6 * x * x^{(3*n)} * e^{(m * \log(e) + m * \log(x))} + 1260 * B * b^3 \\
& * c^3 * m * n^6 * x * x^{(3*n)} * e^{(m * \log(e) + m * \log(x))} + 15120 * B * a^2 * b * c^2 * d * m * n^6 * x * \\
& x^{(3*n)} * e^{(m * \log(e) + m * \log(x))} + 15120 * A * a * b^2 * c^2 * d * m * n^6 * x * x^{(3*n)} * e^{(m * \\
& \log(e) + m * \log(x))} + 11340 * B * a * b^2 * c^2 * d * m * n^6 * x * x^{(3*n)} * e^{(m * \log(e) + m * \log \\
& (x))} + 3780 * A * b^3 * c^2 * d * m * n^6 * x * x^{(3*n)} * e^{(m * \log(e) + m * \log(x))} + 3024 * B * b \\
& ^3 * c^2 * d * m * n^6 * x * x^{(3*n)} * e^{(m * \log(e) + m * \log(x))} + 5040 * B * a^3 * c * d^2 * m * n^6 * x \\
& * x^{(3*n)} * e^{(m * \log(e) + m * \log(x))} + 15120 * A * a^2 * b * c * d^2 * m * n^6 * x * x^{(3*n)} * e^{(m \\
& * \log(e) + m * \log(x))} + 11340 * B * a^2 * b * c * d^2 * m * n^6 * x * x^{(3*n)} * e^{(m * \log(e) + m * \log \\
& (x))} + 11340 * A * a * b^2 * c * d^2 * m * n^6 * x * x^{(3*n)} * e^{(m * \log(e) + m * \log(x))} + 9072 \\
& * B * a * b^2 * c * d^2 * m * n^6 * x * x^{(3*n)} * e^{(m * \log(e) + m * \log(x))} + 3024 * A * b^3 * c * d^2 * m \\
& * n^6 * x * x^{(3*n)} * e^{(m * \log(e) + m * \log(x))} + 2520 * B * b^3 * c * d^2 * m * n^6 * x * x^{(3*n)} * e \\
& ^{(m * \log(e) + m * \log(x))} + 1680 * A * a^3 * d^3 * m * n^6 * x * x^{(3*n)} * e^{(m * \log(e) + m * \log \\
& (x))} + 1260 * B * a^3 * d^3 * m * n^6 * x * x^{(3*n)} * e^{(m * \log(e) + m * \log(x))} + 3780 * A * a^2 * \\
& b * d^3 * m * n^6 * x * x^{(3*n)} * e^{(m * \log(e) + m * \log(x))} + 3024 * B * a^2 * b * d^3 * m * n^6 * x * x^{ \\
& (3*n)} * e^{(m * \log(e) + m * \log(x))} + 3024 * A * a * b^2 * d^3 * m * n^6 * x * x^{(3*n)} * e^{(m * \log(e) \\
&) + m * \log(x))} + 2520 * B * a * b^2 * d^3 * m * n^6 * x * x^{(3*n)} * e^{(m * \log(e) + m * \log(x))} + \\
& 840 * A * b^3 * d^3 * m * n^6 * x * x^{(3*n)} * e^{(m * \log(e) + m * \log(x))} + 720 * B * b^3 * d^3 * m * n^6 \\
& * x * x^{(3*n)} * e^{(m * \log(e) + m * \log(x))} + 3 * B * a^2 * b * c^3 * m^7 * x * x^{(2*n)} * e^{(m * \log(e) \\
&) + m * \log(x))} + 3 * A * a * b^2 * c^3 * m^7 * x * x^{(2*n)} * e^{(m * \log(e) + m * \log(x))} + 3 * B * a \\
& * b^2 * c^3 * m^7 * x * x^{(2*n)} * e^{(m * \log(e) + m * \log(x))} + A * b^3 * c^3 * m^7 * x * x^{(2*n)} * e^{ \\
& (m * \log(e) + m * \log(x))} + B * b^3 * c^3 * m^7 * x * x^{(2*n)} * e^{(m * \log(e) + m * \log(x))} + 3 \\
& * B * a^3 * c^2 * d * m^7 * x * x^{(2*n)} * e^{(m * \log(e) + m * \log(x))} + 9 * A * a^2 * b * c^2 * d * m^7 * x * \\
& x^{(2*n)} * e^{(m * \log(e) + m * \log(x))} + 9 * B * a^2 * b * c^2 * d * m^7 * x * x^{(2*n)} * e^{(m * \log(e) \\
& + m * \log(x))} + 9 * A * a * b^2 * c^2 * d * m^7 * x * x^{(2*n)} * e^{(m * \log(e) + m * \log(x))} + 9 * B * \\
& a * b^2 * c^2 * d * m^7 * x * x^{(2*n)} * e^{(m * \log(e) + m * \log(x))} + 3 * A * b^3 * c^2 * d * m^7 * x * x^{(\\
& 2*n)} * e^{(m * \log(e) + m * \log(x))} + 3 * B * b^3 * c^2 * d * m^7 * x * x^{(2*n)} * e^{(m * \log(e) + m * \\
& \log(x))} + 3 * A * a^3 * c * d^2 * m^7 * x * x^{(2*n)} * e^{(m * \log(e) + m * \log(x))} + 3 * B * a^3 * c * d \\
& ^2 * m^7 * x * x^{(2*n)} * e^{(m * \log(e) + m * \log(x))} + 9 * A * a^2 * b * c * d^2 * m^7 * x * x^{(2*n)} * e^{ \\
& (m * \log(e) + m * \log(x))} + 9 * B * a^2 * b * c * d^2 * m^7 * x * x^{(2*n)} * e^{(m * \log(e) + m * \log(x) \\
&)} + 9 * A * a * b^2 * c * d^2 * m^7 * x * x^{(2*n)} * e^{(m * \log(e) + m * \log(x))} + 9 * B * a * b^2 * c * d^ \\
& 2 * m^7 * x * x^{(2*n)} * e^{(m * \log(e) + m * \log(x))} + 3 * A * b^3 * c * d^2 * m^7 * x * x^{(2*n)} * e^{(m *
\end{aligned}$$

$$\begin{aligned}
& + 226*B*a^3*d^3*m^5*n^2*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 678*A*a^2*b*d^3 \\
& *m^5*n^2*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 621*B*a^2*b*d^3*m^5*n^2*x*x^(2 \\
& *n)*e^(m*log(e) + m*log(x)) + 621*A*a*b^2*d^3*m^5*n^2*x*x^(2*n)*e^(m*log(e) \\
& + m*log(x)) + 570*B*a*b^2*d^3*m^5*n^2*x*x^(2*n)*e^(m*log(e) + m*log(x)) + \\
& 190*A*b^3*d^3*m^5*n^2*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 175*B*b^3*d^3*m^5 \\
& *n^2*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 4260*B*a^2*b*c^3*m^4*n^3*x*x^(2*n) \\
& *e^(m*log(e) + m*log(x)) + 4260*A*a*b^2*c^3*m^4*n^3*x*x^(2*n)*e^(m*log(e) + \\
& m*log(x)) + 3657*B*a*b^2*c^3*m^4*n^3*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 1 \\
& 219*A*b^3*c^3*m^4*n^3*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 1056*B*b^3*c^3*m^ \\
& 4*n^3*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 4260*B*a^3*c^2*d*m^4*n^3*x*x^(2*n) \\
&)*e^(m*log(e) + m*log(x)) + 12780*A*a^2*b*c^2*d*m^4*n^3*x*x^(2*n)*e^(m*log(\\
& e) + m*log(x)) + 10971*B*a^2*b*c^2*d*m^4*n^3*x*x^(2*n)*e^(m*log(e) + m*log(\\
& x)) + 10971*A*a*b^2*c^2*d*m^4*n^3*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 9504* \\
& B*a*b^2*c^2*d*m^4*n^3*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 3168*A*b^3*c^2*d* \\
& m^4*n^3*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 2775*B*b^3*c^2*d*m^4*n^3*x*x^(2 \\
& *n)*e^(m*log(e) + m*log(x)) + 4260*A*a^3*c*d^2*m^4*n^3*x*x^(2*n)*e^(m*log(e) \\
&) + m*log(x)) + 3657*B*a^3*c*d^2*m^4*n^3*x*x^(2*n)*e^(m*log(e) + m*log(x)) \\
& + 10971*A*a^2*b*c*d^2*m^4*n^3*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 9504*B*a^ \\
& 2*b*c*d^2*m^4*n^3*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 9504*A*a*b^2*c*d^2*m^ \\
& 4*n^3*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 8325*B*a*b^2*c*d^2*m^4*n^3*x*x^(2 \\
& *n)*e^(m*log(e) + m*log(x)) + 2775*A*b^3*c*d^2*m^4*n^3*x*x^(2*n)*e^(m*log(e) \\
&) + m*log(x)) + 2460*B*b^3*c*d^2*m^4*n^3*x*x^(2*n)*e^(m*log(e) + m*log(x)) \\
& + 1219*A*a^3*d^3*m^4*n^3*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 1056*B*a^3*d^3 \\
& *m^4*n^3*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 3168*A*a^2*b*d^3*m^4*n^3*x*x^(\\
& 2*n)*e^(m*log(e) + m*log(x)) + 2775*B*a^2*b*d^3*m^4*n^3*x*x^(2*n)*e^(m*log(\\
& e) + m*log(x)) + 2775*A*a*b^2*d^3*m^4*n^3*x*x^(2*n)*e^(m*log(e) + m*log(x)) \\
& + 2460*B*a*b^2*d^3*m^4*n^3*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 820*A*b^3*d \\
& ^3*m^4*n^3*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 735*B*b^3*d^3*m^4*n^3*x*x^(2 \\
& *n)*e^(m*log(e) + m*log(x)) + 11787*B*a^2*b*c^3*m^3*n^4*x*x^(2*n)*e^(m*log(\\
& e) + m*log(x)) + 11787*A*a*b^2*c^3*m^3*n^4*x*x^(2*n)*e^(m*log(e) + m*log(x) \\
&) + 9336*B*a*b^2*c^3*m^3*n^4*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 3112*A*b^3 \\
& *c^3*m^3*n^4*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 2545*B*b^3*c^3*m^3*n^4*x*x \\
& ^2*n)*e^(m*log(e) + m*log(x)) + 11787*B*a^3*c^2*d*m^3*n^4*x*x^(2*n)*e^(m* \\
& log(e) + m*log(x)) + 35361*A*a^2*b*c^2*d*m^3*n^4*x*x^(2*n)*e^(m*log(e) + m* \\
& log(x)) + 28008*B*a^2*b*c^2*d*m^3*n^4*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 28 \\
& 008*A*a*b^2*c^2*d*m^3*n^4*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 22905*B*a*b^2 \\
& *c^2*d*m^3*n^4*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 7635*A*b^3*c^2*d*m^3*n^4 \\
& *x*x^(2*n)*e^(m*log(e) + m*log(x)) + 6432*B*b^3*c^2*d*m^3*n^4*x*x^(2*n)*e^(\\
& m*log(e) + m*log(x)) + 11787*A*a^3*c*d^2*m^3*n^4*x*x^(2*n)*e^(m*log(e) + m* \\
& log(x)) + 9336*B*a^3*c*d^2*m^3*n^4*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 2800 \\
& 8*A*a^2*b*c*d^2*m^3*n^4*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 22905*B*a^2*b*c \\
& *d^2*m^3*n^4*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 22905*A*a*b^2*c*d^2*m^3*n^ \\
& 4*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 19296*B*a*b^2*c*d^2*m^3*n^4*x*x^(2*n) \\
& *e^(m*log(e) + m*log(x)) + 6432*A*b^3*c*d^2*m^3*n^4*x*x^(2*n)*e^(m*log(e) + \\
& m*log(x)) + 5547*B*b^3*c*d^2*m^3*n^4*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 3
\end{aligned}$$

$112*A*a^3*d^3*m^3*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 2545*B*a^3*d^3*m^3*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 7635*A*a^2*b*d^3*m^3*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 6432*B*a^2*b*d^3*m^3*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 6432*A*a*b^2*d^3*m^3*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 5547*B*a*b^2*d^3*m^3*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1849*A*b^3*d^3*m^3*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1624*B*b^3*d^3*m^3*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 15822*B*a^2*b*c^3*m^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 15822*A*a*b^2*c^3*m^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 11388*B*a*b^2*c^3*m^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3796*A*b^3*c^3*m^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 2952*B*b^3*c^3*m^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 15822*B*a^3*c^2*d*m^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 47466*A*a^2*b*c^2*d*m^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 34164*B*a^2*b*c^2*d*m^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 34164*A*a*b^2*c^2*d*m^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 26568*B*a*b^2*c^2*d*m^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 8856*A*b^3*c^2*d*m^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 7236*B*b^3*c^2*d*m^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 15822*A*a^3*c*d^2*m^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 11388*B*a^3*c*d^2*m^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 34164*A*a^2*b*c*d^2*m^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 26568*B*a^2*b*c*d^2*m^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 26568*A*a*b^2*c*d^2*m^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 21708*B*a*b^2*c*d^2*m^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 7236*A*b^3*c*d^2*m^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 6114*B*b^3*c*d^2*m^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3796*A*a^3*d^3*m^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 2952*B*a^3*d^3*m^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 8856*A*a^2*b*d^3*m^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 7236*B*a^2*b*d^3*m^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 7236*A*a*b^2*d^3*m^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 6114*B*a*b^2*d^3*m^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 2038*A*b^3*d^3*m^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1764*B*b^3*d^3*m^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 7560*B*a^2*b*c^3*m*n^6*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 7560*A*a*b^2*c^3*m*n^6*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 5040*B*a*b^2*c^3*m*n^6*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1680*A*b^3*c^3*m*n^6*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1260*B*b^3*c^3*m*n^6*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 7560*B*a^3*c^2*d*m*n^6*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 22680*A*a^2*b*c^2*d*m*n^6*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 15120*B*a^2*b*c^2*d*m*n^6*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 15120*A*a*b^2*c^2*d*m*n^6*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 11340*B*a*b^2*c^2*d*m*n^6*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3780*A*b^3*c^2*d*m*n^6*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3024*B*b^3*c^2*d*m*n^6*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 7560*A*a^3*c*d^2*m*n^6*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 5040*B*a^3*c*d^2*m*n^6*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 15120*A*a^2*b*c*d^2*m*n^6*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 11340*B*a^2*b*c*d^2*m*n^6*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 11340*A*a*b^2*c*d^2*m*n^6*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 9072*B*a*b^2*c*d^2*m*n^6*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3024*A*b^3*c*d^2*m*n^6*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 2520*B*b^3*c*d^2*m*n^6*x*x^{(2*$

$$\begin{aligned}
& 2*b*d^3*m^6*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 69*B*a^2*b*d^3*m^6*n*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 69*A*a*b^2*d^3*m^6*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 66*B*a*b^2*d^3*m^6*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 22*A*b^3*d^3*m^6*n*x \\
& *x^n*e^{(m*\log(e) + m*\log(x))} + 21*B*b^3*d^3*m^6*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 295*B*a^3*c^3*m^5*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 885*A*a^2*b*c^3 \\
& *m^5*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 810*B*a^2*b*c^3*m^5*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 810*A*a*b^2*c^3*m^5*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 741*B*a*b^2*c^3*m^5*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 247*A*b^3*c^3*m^5*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 226*B*b^3*c^3*m^5*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 885*A*a^3*c^2*d*m^5*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 8 \\
& 10*B*a^3*c^2*d*m^5*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2430*A*a^2*b*c^2*d*m^5*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2223*B*a^2*b*c^2*d*m^5*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2223*A*a*b^2*c^2*d*m^5*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2034*B*a*b^2*c^2*d*m^5*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 678*A*b^3*c^2*d*m^5*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 621*B*b^3*c^2*d*m^5*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 810*A*a^3*c*d^2*m^5*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 741*B*a^3*c*d^2*m^5*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2223*A*a^2*b*c*d^2*m^5*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2034*B*a^2*b*c*d^2*m^5*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2034*A*a*b^2*c*d^2*m^5*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1863*B*a*b^2*c*d^2*m^5*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 621*A*b^3*c*d^2*m^5*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 570*B*b^3*c*d^2*m^5*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 247*A*a^3*d^3*m^5*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 226*B*a^3*d^3*m^5*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 678*A*a^2*b*d^3*m^5*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 621*B*a^2*b*d^3*m^5*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 621*A*a*b^2*d^3*m^5*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 570*B*a*b^2*d^3*m^5*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 190*A*b^3*d^3*m^5*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 175*B*b^3*d^3*m^5*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1665*B*a^3*c^3*m^4*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 4995*A*a^2*b*c^3*m^4*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 4260*B*a^2*b*c^3*m^4*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 4260*A*a*b^2*c^3*m^4*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3657*B*a*b^2*c^3*m^4*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1219*A*b^3*c^3*m^4*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1056*B*b^3*c^3*m^4*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 4995*A*a^3*c^2*d*m^4*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 4260*B*a^3*c^2*d*m^4*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 12780*A*a^2*b*c^2*d*m^4*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10971*B*a^2*b*c^2*d*m^4*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10971*A*a*b^2*c^2*d*m^4*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 9504*B*a*b^2*c^2*d*m^4*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3168*A*b^3*c^2*d*m^4*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2775*B*b^3*c^2*d*m^4*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 4260*A*a^3*c*d^2*m^4*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3657*B*a^3*c*d^2*m^4*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10971*A*a^2*b*c*d^2*m^4*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 9504*B*a^2*b*c*d^2*m^4*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 9504*A*a*b^2*c*d^2*m^4*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 8325*B*a*b^2*c*d^2*m^4*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2775*A*b^3*c*d^2*m^4*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2460*B*b^3*c*d^2*m^4*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))}
\end{aligned}$$

$$\begin{aligned}
& + 1219*A*a^3*d^3*m^4*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1056*B*a^3*d^3*m^4*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3168*A*a^2*b*d^3*m^4*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 2775*B*a^2*b*d^3*m^4*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2775*A*a*b^2*d^3*m^4*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2460*B*a*b^2*d^3*m^4*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 820*A*b^3*d^3*m^4*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 735*B*b^3*d^3*m^4*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5104*B*a^3*c^3*m^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 15312*A*a^2*b*c^3*m^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 11787*B*a^2*b*c^3*m^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 11787*A*a*b^2*c^3*m^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 9336*B*a*b^2*c^3*m^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3112*A*b^3*c^3*m^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2545*B*b^3*c^3*m^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 15312*A*a^3*c^2*d*m^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 11787*B*a^3*c^2*d*m^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 35361*A*a^2*b*c^2*d*m^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 28008*B*a^2*b*c^2*d*m^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 28008*A*a*b^2*c^2*d*m^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 22905*B*a*b^2*c^2*d*m^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 7635*A*b^3*c^2*d*m^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 6432*B*b^3*c^2*d*m^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 11787*A*a^3*c*d^2*m^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 9336*B*a^3*c*d^2*m^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 28008*A*a^2*b*c*d^2*m^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 22905*B*a^2*b*c*d^2*m^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 22905*A*a*b^2*c*d^2*m^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 19296*B*a*b^2*c*d^2*m^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 6432*A*b^3*c*d^2*m^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 5547*B*b^3*c*d^2*m^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3112*A*a^3*d^3*m^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2545*B*a^3*d^3*m^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 7635*A*a^2*b*d^3*m^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 6432*B*a^2*b*d^3*m^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 6432*A*a*b^2*d^3*m^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 5547*B*a*b^2*d^3*m^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1849*A*b^3*d^3*m^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1624*B*b^3*d^3*m^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 8028*B*a^3*c^3*m^2*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 24084*A*a^2*b*c^3*m^2*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15822*B*a^2*b*c^3*m^2*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 15822*A*a*b^2*c^3*m^2*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 11388*B*a*b^2*c^3*m^2*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3796*A*b^3*c^3*m^2*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 2952*B*b^3*c^3*m^2*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 24084*A*a^3*c^2*d*m^2*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15822*B*a^3*c^2*d*m^2*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 47466*A*a^2*b*c^2*d*m^2*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 34164*B*a^2*b*c^2*d*m^2*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 34164*A*a*b^2*c^2*d*m^2*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 26568*B*a*b^2*c^2*d*m^2*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 8856*A*b^3*c^2*d*m^2*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 7236*B*b^3*c^2*d*m^2*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 15822*A*a^3*c*d^2*m^2*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 11388*B*a^3*c*d^2*m^2*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 34164*A*a^2*b*c*d^2*m^2*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 26568*B*a^2*b*c*d^2*m^2*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 26568*A*a*b^2*c*d^2*m^2*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))}
\end{aligned}$$

$\log(e) + m\log(x)) + 21708*B*a*b^2*c*d^2*m^2*n^5*x*x^n*e^{(m\log(e) + m\log(x))} + 7236*A*b^3*c*d^2*m^2*n^5*x*x^n*e^{(m\log(e) + m\log(x))} + 6114*B*b^3*c*d^2*m^2*n^5*x*x^n*e^{(m\log(e) + m\log(x))} + 3796*A*a^3*d^3*m^2*n^5*x*x^n*e^{(m\log(e) + m\log(x))} + 2952*B*a^3*d^3*m^2*n^5*x*x^n*e^{(m\log(e) + m\log(x))} + 8856*A*a^2*b*d^3*m^2*n^5*x*x^n*e^{(m\log(e) + m\log(x))} + 7236*B*a^2*b*d^3*m^2*n^5*x*x^n*e^{(m\log(e) + m\log(x))} + 7236*A*a*b^2*d^3*m^2*n^5*x*x^n*e^{(m\log(e) + m\log(x))} + 6114*B*a*b^2*d^3*m^2*n^5*x*x^n*e^{(m\log(e) + m\log(x))} + 2038*A*b^3*d^3*m^2*n^5*x*x^n*e^{(m\log(e) + m\log(x))} + 1764*B*b^3*d^3*m^2*n^5*x*x^n*e^{(m\log(e) + m\log(x))} + 5040*B*a^3*c^3*m^n^6*x*x^n*e^{(m\log(e) + m\log(x))} + 15120*A*a^2*b*c^3*m^n^6*x*x^n*e^{(m\log(e) + m\log(x))} + 7560*B*a^2*b*c^3*m^n^6*x*x^n*e^{(m\log(e) + m\log(x))} + 7560*A*a*b^2*c^3*m^n^6*x*x^n*e^{(m\log(e) + m\log(x))} + 5040*B*a*b^2*c^3*m^n^6*x*x^n*e^{(m\log(e) + m\log(x))} + 1680*A*b^3*c^3*m^n^6*x*x^n*e^{(m\log(e) + m\log(x))} + 1260*B*b^3*c^3*m^n^6*x*x^n*e^{(m\log(e) + m\log(x))} + 15120*A*a^3*c^2*d*m^n^6*x*x^n*e^{(m\log(e) + m\log(x))} + 7560*B*a^3*c^2*d*m^n^6*x*x^n*e^{(m\log(e) + m\log(x))} + 22680*A*a^2*b*c^2*d*m^n^6*x*x^n*e^{(m\log(e) + m\log(x))} + 15120*B*a^2*b*c^2*d*m^n^6*x*x^n*e^{(m\log(e) + m\log(x))} + 15120*A*a*b^2*c^2*d*m^n^6*x*x^n*e^{(m\log(e) + m\log(x))} + 11340*B*a*b^2*c^2*d*m^n^6*x*x^n*e^{(m\log(e) + m\log(x))} + 3780*A*b^3*c^2*d*m^n^6*x*x^n*e^{(m\log(e) + m\log(x))} + 3024*B*b^3*c^2*d*m^n^6*x*x^n*e^{(m\log(e) + m\log(x))} + 7560*A*a^3*c*d^2*m^n^6*x*x^n*e^{(m\log(e) + m\log(x))} + 5040*B*a^3*c*d^2*m^n^6*x*x^n*e^{(m\log(e) + m\log(x))} + 15120*A*a^2*b*c*d^2*m^n^6*x*x^n*e^{(m\log(e) + m\log(x))} + 11340*B*a^2*b*c*d^2*m^n^6*x*x^n*e^{(m\log(e) + m\log(x))} + 11340*A*a*b^2*c*d^2*m^n^6*x*x^n*e^{(m\log(e) + m\log(x))} + 9072*B*a*b^2*c*d^2*m^n^6*x*x^n*e^{(m\log(e) + m\log(x))} + 3024*A*b^3*c*d^2*m^n^6*x*x^n*e^{(m\log(e) + m\log(x))} + 2520*B*b^3*c*d^2*m^n^6*x*x^n*e^{(m\log(e) + m\log(x))} + 1680*A*a^3*d^3*m^n^6*x*x^n*e^{(m\log(e) + m\log(x))} + 1260*B*a^3*d^3*m^n^6*x*x^n*e^{(m\log(e) + m\log(x))} + 3780*A*a^2*b*d^3*m^n^6*x*x^n*e^{(m\log(e) + m\log(x))} + 3024*B*a^2*b*d^3*m^n^6*x*x^n*e^{(m\log(e) + m\log(x))} + 3024*A*a*b^2*d^3*m^n^6*x*x^n*e^{(m\log(e) + m\log(x))} + 2520*B*a*b^2*d^3*m^n^6*x*x^n*e^{(m\log(e) + m\log(x))} + 840*A*b^3*d^3*m^n^6*x*x^n*e^{(m\log(e) + m\log(x))} + 720*B*b^3*d^3*m^n^6*x*x^n*e^{(m\log(e) + m\log(x))} + A*a^3*c^3*m^7*x*e^{(m\log(e) + m\log(x))} + B*a^3*c^3*m^7*x*e^{(m\log(e) + m\log(x))} + 3*A*a^2*b*c^3*m^7*x*e^{(m\log(e) + m\log(x))} + 3*B*a^2*b*c^3*m^7*x*e^{(m\log(e) + m\log(x))} + 3*A*a*b^2*c^3*m^7*x*e^{(m\log(e) + m\log(x))} + 3*B*a*b^2*c^3*m^7*x*e^{(m\log(e) + m\log(x))} + A*b^3*c^3*m^7*x*e^{(m\log(e) + m\log(x))} + B*b^3*c^3*m^7*x*e^{(m\log(e) + m\log(x))} + 3*A*a^3*c^2*d*m^7*x*e^{(m\log(e) + m\log(x))} + 3*B*a^3*c^2*d*m^7*x*e^{(m\log(e) + m\log(x))} + 9*A*a^2*b*c^2*d*m^7*x*e^{(m\log(e) + m\log(x))} + 9*B*a^2*b*c^2*d*m^7*x*e^{(m\log(e) + m\log(x))} + 9*A*a*b^2*c^2*d*m^7*x*e^{(m\log(e) + m\log(x))} + 9*B*a*b^2*c^2*d*m^7*x*e^{(m\log(e) + m\log(x))} + 3*A*b^3*c^2*d*m^7*x*e^{(m\log(e) + m\log(x))} + 3*B*b^3*c^2*d*m^7*x*e^{(m\log(e) + m\log(x))} + 3*A*a^3*c*d^2*m^7*x*e^{(m\log(e) + m\log(x))} + 3*B*a^3*c*d^2*m^7*x*e^{(m\log(e) + m\log(x))} + 9*A*a^2*b*c*d^2*m^7*x*e^{(m\log(e) + m\log(x))} + 9*B*a^2*b*c*d^2*m^7*x*e^{(m\log(e) + m\log(x))} + 9*A*a*b^2*c*d^2*m^7*x*e^{(m\log(e) + m\log(x))} + 9*B*a*b^2*c*d^2*m^7*x*e^{(m\log(e) + m\log(x))} + 3*A*b^3$

$*c*d^2*m^7*x*e^{(m*\log(e) + m*\log(x))} + 3*B*b^3*c*d^2*m^7*x*e^{(m*\log(e) + m*\log(x))} + A*a^3*d^3*m^7*x*e^{(m*\log(e) + m*\log(x))} + B*a^3*d^3*m^7*x*e^{(m*\log(e) + m*\log(x))} + 3*A*a^2*b*d^3*m^7*x*e^{(m*\log(e) + m*\log(x))} + 3*B*a^2*b*d^3*m^7*x*e^{(m*\log(e) + m*\log(x))} + 3*A*a*b^2*d^3*m^7*x*e^{(m*\log(e) + m*\log(x))} + A*b^3*d^3*m^7*x*e^{(m*\log(e) + m*\log(x))} + B*b^3*d^3*m^7*x*e^{(m*\log(e) + m*\log(x))} + 28*A*a^3*c^3*m^6*n*x*e^{(m*\log(e) + m*\log(x))} + 27*B*a^3*c^3*m^6*n*x*e^{(m*\log(e) + m*\log(x))} + 81*A*a^2*b*c^3*m^6*n*x*e^{(m*\log(e) + m*\log(x))} + 78*B*a^2*b*c^3*m^6*n*x*e^{(m*\log(e) + m*\log(x))} + 78*A*a*b^2*c^3*m^6*n*x*e^{(m*\log(e) + m*\log(x))} + 75*B*a*b^2*c^3*m^6*n*x*e^{(m*\log(e) + m*\log(x))} + 25*A*b^3*c^3*m^6*n*x*e^{(m*\log(e) + m*\log(x))} + 24*B*b^3*c^3*m^6*n*x*e^{(m*\log(e) + m*\log(x))} + 81*A*a^3*c^2*d*m^6*n*x*e^{(m*\log(e) + m*\log(x))} + 78*B*a^3*c^2*d*m^6*n*x*e^{(m*\log(e) + m*\log(x))} + 234*A*a^2*b*c^2*d*m^6*n*x*e^{(m*\log(e) + m*\log(x))} + 225*B*a^2*b*c^2*d*m^6*n*x*e^{(m*\log(e) + m*\log(x))} + 225*A*a*b^2*c^2*d*m^6*n*x*e^{(m*\log(e) + m*\log(x))} + 216*B*a*b^2*c^2*d*m^6*n*x*e^{(m*\log(e) + m*\log(x))} + 72*A*b^3*c^2*d*m^6*n*x*e^{(m*\log(e) + m*\log(x))} + 69*B*b^3*c^2*d*m^6*n*x*e^{(m*\log(e) + m*\log(x))} + 78*A*a^3*c*d^2*m^6*n*x*e^{(m*\log(e) + m*\log(x))} + 75*B*a^3*c*d^2*m^6*n*x*e^{(m*\log(e) + m*\log(x))} + 225*A*a^2*b*c*d^2*m^6*n*x*e^{(m*\log(e) + m*\log(x))} + 216*B*a^2*b*c*d^2*m^6*n*x*e^{(m*\log(e) + m*\log(x))} + 216*A*a*b^2*c*d^2*m^6*n*x*e^{(m*\log(e) + m*\log(x))} + 207*B*a*b^2*c*d^2*m^6*n*x*e^{(m*\log(e) + m*\log(x))} + 69*A*b^3*c*d^2*m^6*n*x*e^{(m*\log(e) + m*\log(x))} + 66*B*b^3*c*d^2*m^6*n*x*e^{(m*\log(e) + m*\log(x))} + 25*A*a^3*d^3*m^6*n*x*e^{(m*\log(e) + m*\log(x))} + 24*B*a^3*d^3*m^6*n*x*e^{(m*\log(e) + m*\log(x))} + 72*A*a^2*b*d^3*m^6*n*x*e^{(m*\log(e) + m*\log(x))} + 69*B*a^2*b*d^3*m^6*n*x*e^{(m*\log(e) + m*\log(x))} + 69*A*a*b^2*d^3*m^6*n*x*e^{(m*\log(e) + m*\log(x))} + 66*B*a*b^2*d^3*m^6*n*x*e^{(m*\log(e) + m*\log(x))} + 22*A*b^3*d^3*m^6*n*x*e^{(m*\log(e) + m*\log(x))} + 21*B*b^3*d^3*m^6*n*x*e^{(m*\log(e) + m*\log(x))} + 322*A*a^3*c^3*m^5*n^2*x*e^{(m*\log(e) + m*\log(x))} + 295*B*a^3*c^3*m^5*n^2*x*e^{(m*\log(e) + m*\log(x))} + 885*A*a^2*b*c^3*m^5*n^2*x*e^{(m*\log(e) + m*\log(x))} + 810*B*a^2*b*c^3*m^5*n^2*x*e^{(m*\log(e) + m*\log(x))} + 810*A*a*b^2*c^3*m^5*n^2*x*e^{(m*\log(e) + m*\log(x))} + 741*B*a*b^2*c^3*m^5*n^2*x*e^{(m*\log(e) + m*\log(x))} + 247*A*b^3*c^3*m^5*n^2*x*e^{(m*\log(e) + m*\log(x))} + 226*B*b^3*c^3*m^5*n^2*x*e^{(m*\log(e) + m*\log(x))} + 885*A*a^3*c^2*d*m^5*n^2*x*e^{(m*\log(e) + m*\log(x))} + 810*B*a^3*c^2*d*m^5*n^2*x*e^{(m*\log(e) + m*\log(x))} + 2430*A*a^2*b*c^2*d*m^5*n^2*x*e^{(m*\log(e) + m*\log(x))} + 2223*B*a^2*b*c^2*d*m^5*n^2*x*e^{(m*\log(e) + m*\log(x))} + 2034*B*a*b^2*c^2*d*m^5*n^2*x*e^{(m*\log(e) + m*\log(x))} + 678*A*b^3*c^2*d*m^5*n^2*x*e^{(m*\log(e) + m*\log(x))} + 621*B*b^3*c^2*d*m^5*n^2*x*e^{(m*\log(e) + m*\log(x))} + 810*A*a^3*c*d^2*m^5*n^2*x*e^{(m*\log(e) + m*\log(x))} + 741*B*a^3*c*d^2*m^5*n^2*x*e^{(m*\log(e) + m*\log(x))} + 2223*A*a^2*b*c*d^2*m^5*n^2*x*e^{(m*\log(e) + m*\log(x))} + 2034*B*a^2*b*c*d^2*m^5*n^2*x*e^{(m*\log(e) + m*\log(x))} + 2034*A*a*b^2*c*d^2*m^5*n^2*x*e^{(m*\log(e) + m*\log(x))} + 1863*B*a*b^2*c*d^2*m^5*n^2*x*e^{(m*\log(e) + m*\log(x))} + 621*A*b^3*c*d^2*m^5*n^2*x*e^{(m*\log(e) + m*\log(x))} + 570*B*b^3*c*d^2*m^5*n^2*x*e^{(m*\log(e) + m*\log(x))} + 247*A*a^3*d^3*m^5*n^2*x*e^{(m*\log(e) + m*\log(x))} + 226*B*a^3*d^3*m^5*n^2*x*e^{(m*\log(e) + m*\log(x))}$

$$\begin{aligned}
& + 678*A*a^2*b*d^3*m^5*n^2*x*e^{(m*\log(e) + m*\log(x))} + 621*B*a^2*b*d^3*m^5*n^2*x*e^{(m*\log(e) + m*\log(x))} \\
& + 621*A*a*b^2*d^3*m^5*n^2*x*e^{(m*\log(e) + m*\log(x))} + 570*B*a*b^2*d^3*m^5*n^2*x*e^{(m*\log(e) + m*\log(x))} \\
& + 190*A*b^3*d^3*m^5*n^2*x*e^{(m*\log(e) + m*\log(x))} + 175*B*b^3*d^3*m^5*n^2*x*e^{(m*\log(e) + m*\log(x))} \\
& + 1960*A*a^3*c^3*m^4*n^3*x*e^{(m*\log(e) + m*\log(x))} + 1665*B*a^3*c^3*m^4*n^3*x*e^{(m*\log(e) + m*\log(x))} \\
& + 4995*A*a^2*b*c^3*m^4*n^3*x*e^{(m*\log(e) + m*\log(x))} + 4260*B*a^2*b*c^3*m^4*n^3*x*e^{(m*\log(e) + m*\log(x))} \\
& + 4260*A*a*b^2*c^3*m^4*n^3*x*e^{(m*\log(e) + m*\log(x))} + 3657*B*a*b^2*c^3*m^4*n^3*x*e^{(m*\log(e) + m*\log(x))} \\
& + 1219*A*b^3*c^3*m^4*n^3*x*e^{(m*\log(e) + m*\log(x))} + 1056*B*b^3*c^3*m^4*n^3*x*e^{(m*\log(e) + m*\log(x))} \\
& + 4995*A*a^3*c^2*d*m^4*n^3*x*e^{(m*\log(e) + m*\log(x))} + 4260*B*a^3*c^2*d*m^4*n^3*x*e^{(m*\log(e) + m*\log(x))} \\
& + 12780*A*a^2*b*c^2*d*m^4*n^3*x*e^{(m*\log(e) + m*\log(x))} + 10971*B*a^2*b*c^2*d*m^4*n^3*x*e^{(m*\log(e) + m*\log(x))} \\
& + 10971*A*a*b^2*c^2*d*m^4*n^3*x*e^{(m*\log(e) + m*\log(x))} + 9504*B*a*b^2*c^2*d*m^4*n^3*x*e^{(m*\log(e) + m*\log(x))} \\
& + 3168*A*b^3*c^2*d*m^4*n^3*x*e^{(m*\log(e) + m*\log(x))} + 2775*B*b^3*c^2*d*m^4*n^3*x*e^{(m*\log(e) + m*\log(x))} \\
& + 4260*A*a^3*c*d^2*m^4*n^3*x*e^{(m*\log(e) + m*\log(x))} + 3657*B*a^3*c*d^2*m^4*n^3*x*e^{(m*\log(e) + m*\log(x))} \\
& + 10971*A*a^2*b*c*d^2*m^4*n^3*x*e^{(m*\log(e) + m*\log(x))} + 9504*B*a^2*b*c*d^2*m^4*n^3*x*e^{(m*\log(e) + m*\log(x))} \\
& + 9504*A*a*b^2*c*d^2*m^4*n^3*x*e^{(m*\log(e) + m*\log(x))} + 9504*A*a*b^2*c*d^2*m^4*n^3*x*e^{(m*\log(e) + m*\log(x))} \\
& + 8325*B*a*b^2*c*d^2*m^4*n^3*x*e^{(m*\log(e) + m*\log(x))} + 2775*A*b^3*c*d^2*m^4*n^3*x*e^{(m*\log(e) + m*\log(x))} \\
& + 2460*B*b^3*c*d^2*m^4*n^3*x*e^{(m*\log(e) + m*\log(x))} + 2460*B*b^3*c*d^2*m^4*n^3*x*e^{(m*\log(e) + m*\log(x))} \\
& + 1219*A*a^3*d^3*m^4*n^3*x*e^{(m*\log(e) + m*\log(x))} + 1056*B*a^3*d^3*m^4*n^3*x*e^{(m*\log(e) + m*\log(x))} \\
& + 3168*A*a^2*b*d^3*m^4*n^3*x*e^{(m*\log(e) + m*\log(x))} + 2775*B*a^2*b*d^3*m^4*n^3*x*e^{(m*\log(e) + m*\log(x))} \\
& + 2775*A*a*b^2*d^3*m^4*n^3*x*e^{(m*\log(e) + m*\log(x))} + 2460*B*a*b^2*d^3*m^4*n^3*x*e^{(m*\log(e) + m*\log(x))} \\
& + 820*A*b^3*d^3*m^4*n^3*x*e^{(m*\log(e) + m*\log(x))} + 820*A*b^3*d^3*m^4*n^3*x*e^{(m*\log(e) + m*\log(x))} \\
& + 735*B*b^3*d^3*m^4*n^3*x*e^{(m*\log(e) + m*\log(x))} + 6769*A*a^3*c^3*m^3*n^4*x*e^{(m*\log(e) + m*\log(x))} \\
& + 5104*B*a^3*c^3*m^3*n^4*x*e^{(m*\log(e) + m*\log(x))} + 15312*A*a^2*b*c^3*m^3*n^4*x*e^{(m*\log(e) + m*\log(x))} \\
& + 11787*B*a^2*b*c^3*m^3*n^4*x*e^{(m*\log(e) + m*\log(x))} + 11787*A*a*b^2*c^3*m^3*n^4*x*e^{(m*\log(e) + m*\log(x))} \\
& + 9336*B*a*b^2*c^3*m^3*n^4*x*e^{(m*\log(e) + m*\log(x))} + 3112*A*b^3*c^3*m^3*n^4*x*e^{(m*\log(e) + m*\log(x))} \\
& + 2545*B*b^3*c^3*m^3*n^4*x*e^{(m*\log(e) + m*\log(x))} + 15312*A*a^3*c^2*d*m^3*n^4*x*e^{(m*\log(e) + m*\log(x))} \\
& + 11787*B*a^3*c^2*d*m^3*n^4*x*e^{(m*\log(e) + m*\log(x))} + 35361*A*a^2*b*c^2*d*m^3*n^4*x*e^{(m*\log(e) + m*\log(x))} \\
& + 28008*B*a^2*b*c^2*d*m^3*n^4*x*e^{(m*\log(e) + m*\log(x))} + 28008*A*a*b^2*c^2*d*m^3*n^4*x*e^{(m*\log(e) + m*\log(x))} \\
& + 22905*B*a*b^2*c^2*d*m^3*n^4*x*e^{(m*\log(e) + m*\log(x))} + 7635*A*b^3*c^2*d*m^3*n^4*x*e^{(m*\log(e) + m*\log(x))} \\
& + 6432*B*b^3*c^2*d*m^3*n^4*x*e^{(m*\log(e) + m*\log(x))} + 11787*A*a^3*c*d^2*m^3*n^4*x*e^{(m*\log(e) + m*\log(x))} \\
& + 9336*B*a^3*c*d^2*m^3*n^4*x*e^{(m*\log(e) + m*\log(x))} + 28008*A*a^2*b*c*d^2*m^3*n^4*x*e^{(m*\log(e) + m*\log(x))} \\
& + 22905*B*a^2*b*c*d^2*m^3*n^4*x*e^{(m*\log(e) + m*\log(x))} + 22905*A*a*b^2*c*d^2*m^3*n^4*x*e^{(m*\log(e) + m*\log(x))} \\
& + 19296*B*a*b^2*c*d^2*m^3*n^4*x*e^{(m*\log(e) + m*\log(x))} + 6432*A*b^3*c*d^2*m^3*n^4*x*e^{(m*\log(e) + m*\log(x))} \\
& + 5547*B*b^3*c*d^2*m^3*n^4*x*e^{(m*\log(e) + m*\log(x))} + 3112*A*a^3*d^3*m^3*n^4*x*e^{(m*\log(e) + m*\log(x))} \\
& + 2545*B*a^3*d^3*m^3*n^4
\end{aligned}$$

$*x^e^{(m \log(e) + m \log(x))} + 7635 * A^2 * b^3 * d^3 * m^3 * n^4 * x^e^{(m \log(e) + m \log(x))} + 6432 * B^2 * a^2 * b^3 * d^3 * m^3 * n^4 * x^e^{(m \log(e) + m \log(x))} + 6432 * A * a^2 * b^2 * d^3 * m^3 * n^4 * x^e^{(m \log(e) + m \log(x))} + 5547 * B^2 * a * b^2 * d^3 * m^3 * n^4 * x^e^{(m \log(e) + m \log(x))} + 1849 * A * b^3 * d^3 * m^3 * n^4 * x^e^{(m \log(e) + m \log(x))} + 1624 * B^2 * b^3 * d^3 * m^3 * n^4 * x^e^{(m \log(e) + m \log(x))} + 13132 * A^3 * c^3 * m^2 * n^5 * x^e^{(m \log(e) + m \log(x))} + 8028 * B^2 * a^3 * c^3 * m^2 * n^5 * x^e^{(m \log(e) + m \log(x))} + 24084 * A^2 * b^2 * c^3 * m^2 * n^5 * x^e^{(m \log(e) + m \log(x))} + 15822 * B^2 * a^2 * b^2 * c^3 * m^2 * n^5 * x^e^{(m \log(e) + m \log(x))} + 15822 * A * a^2 * b^2 * c^3 * m^2 * n^5 * x^e^{(m \log(e) + m \log(x))} + 11388 * B^2 * a * b^2 * c^3 * m^2 * n^5 * x^e^{(m \log(e) + m \log(x))} + 3796 * A * b^3 * c^3 * m^2 * n^5 * x^e^{(m \log(e) + m \log(x))} + 2952 * B^2 * b^3 * c^3 * m^2 * n^5 * x^e^{(m \log(e) + m \log(x))} + 24084 * A^3 * c^2 * d * m^2 * n^5 * x^e^{(m \log(e) + m \log(x))} + 15822 * B^2 * a^3 * c^2 * d * m^2 * n^5 * x^e^{(m \log(e) + m \log(x))} + 47466 * A^2 * b^2 * c^2 * d * m^2 * n^5 * x^e^{(m \log(e) + m \log(x))} + 34164 * B^2 * a^2 * b^2 * c^2 * d * m^2 * n^5 * x^e^{(m \log(e) + m \log(x))} + 34164 * A * a^2 * b^2 * c^2 * d * m^2 * n^5 * x^e^{(m \log(e) + m \log(x))} + 26568 * B^2 * a * b^2 * c^2 * d * m^2 * n^5 * x^e^{(m \log(e) + m \log(x))} + 8856 * A * b^3 * c^2 * d * m^2 * n^5 * x^e^{(m \log(e) + m \log(x))} + 7236 * B^2 * b^3 * c^2 * d * m^2 * n^5 * x^e^{(m \log(e) + m \log(x))} + 15822 * A^3 * c * d^2 * m^2 * n^5 * x^e^{(m \log(e) + m \log(x))} + 11388 * B^2 * a^3 * c * d^2 * m^2 * n^5 * x^e^{(m \log(e) + m \log(x))} + 34164 * A^2 * b^2 * c * d^2 * m^2 * n^5 * x^e^{(m \log(e) + m \log(x))} + 26568 * B^2 * a^2 * b^2 * c * d^2 * m^2 * n^5 * x^e^{(m \log(e) + m \log(x))} + 26568 * A * a^2 * b^2 * c * d^2 * m^2 * n^5 * x^e^{(m \log(e) + m \log(x))} + 21708 * B^2 * a * b^2 * c * d^2 * m^2 * n^5 * x^e^{(m \log(e) + m \log(x))} + 7236 * A * b^3 * c * d^2 * m^2 * n^5 * x^e^{(m \log(e) + m \log(x))} + 6114 * B^2 * b^3 * c * d^2 * m^2 * n^5 * x^e^{(m \log(e) + m \log(x))} + 3796 * A^3 * d^3 * m^2 * n^5 * x^e^{(m \log(e) + m \log(x))} + 2952 * B^2 * a^3 * d^3 * m^2 * n^5 * x^e^{(m \log(e) + m \log(x))} + 8856 * A^2 * b^2 * d^3 * m^2 * n^5 * x^e^{(m \log(e) + m \log(x))} + 7236 * B^2 * a^2 * b^2 * d^3 * m^2 * n^5 * x^e^{(m \log(e) + m \log(x))} + 7236 * A * a^2 * b^2 * d^3 * m^2 * n^5 * x^e^{(m \log(e) + m \log(x))} + 6114 * B^2 * a * b^2 * d^3 * m^2 * n^5 * x^e^{(m \log(e) + m \log(x))} + 2038 * A * b^3 * d^3 * m^2 * n^5 * x^e^{(m \log(e) + m \log(x))} + 1764 * B^2 * b^3 * d^3 * m^2 * n^5 * x^e^{(m \log(e) + m \log(x))} + 13068 * A^3 * c^3 * m * n^6 * x^e^{(m \log(e) + m \log(x))} + 5040 * B^2 * a^3 * c^3 * m * n^6 * x^e^{(m \log(e) + m \log(x))} + 15120 * A^2 * b^2 * c^3 * m * n^6 * x^e^{(m \log(e) + m \log(x))} + 7560 * B^2 * a^2 * b^2 * c^3 * m * n^6 * x^e^{(m \log(e) + m \log(x))} + 7560 * A * a^2 * b^2 * c^3 * m * n^6 * x^e^{(m \log(e) + m \log(x))} + 5040 * B^2 * a * b^2 * c^3 * m * n^6 * x^e^{(m \log(e) + m \log(x))} + 1680 * A * b^3 * c^3 * m * n^6 * x^e^{(m \log(e) + m \log(x))} + 1260 * B^2 * b^3 * c^3 * m * n^6 * x^e^{(m \log(e) + m \log(x))} + 15120 * A^3 * c^2 * d * m * n^6 * x^e^{(m \log(e) + m \log(x))} + 7560 * B^2 * a^3 * c^2 * d * m * n^6 * x^e^{(m \log(e) + m \log(x))} + 22680 * A^2 * b^2 * c^2 * d * m * n^6 * x^e^{(m \log(e) + m \log(x))} + 15120 * B^2 * a^2 * b^2 * c^2 * d * m * n^6 * x^e^{(m \log(e) + m \log(x))} + 15120 * A * a^2 * b^2 * c^2 * d * m * n^6 * x^e^{(m \log(e) + m \log(x))} + 11340 * B^2 * a * b^2 * c^2 * d * m * n^6 * x^e^{(m \log(e) + m \log(x))} + 3780 * A * b^3 * c^2 * d * m * n^6 * x^e^{(m \log(e) + m \log(x))} + 3024 * B^2 * b^3 * c^2 * d * m * n^6 * x^e^{(m \log(e) + m \log(x))} + 7560 * A^3 * c * d^2 * m * n^6 * x^e^{(m \log(e) + m \log(x))} + 5040 * B^2 * a^3 * c * d^2 * m * n^6 * x^e^{(m \log(e) + m \log(x))} + 15120 * A^2 * b^2 * c * d^2 * m * n^6 * x^e^{(m \log(e) + m \log(x))} + 11340 * B^2 * a^2 * b^2 * c * d^2 * m * n^6 * x^e^{(m \log(e) + m \log(x))} + 11340 * A * a^2 * b^2 * c * d^2 * m * n^6 * x^e^{(m \log(e) + m \log(x))} + 9072 * B^2 * a * b^2 * c * d^2 * m * n^6 * x^e^{(m \log(e) + m \log(x))} + 3024 * A * b^3 * c * d^2 * m * n^6 * x^e^{(m \log(e) + m \log(x))} + 2520 * B^2 * b^3 * c * d^2 * m * n^6 * x^e^{(m \log(e) + m \log(x))} + 1680 * A^3 * d^3 * m * n^6 * x^e^{(m \log(e) + m \log(x))} + 1260 * B^2 * a^3 * d^3 * m * n^6 * x^e^{(m$

$\log(e) + m \log(x)) + 3780 * A * a^2 * b * d^3 * m * n^6 * x * e^{(m \log(e) + m \log(x))} + 3024 * B * a^2 * b * d^3 * m * n^6 * x * e^{(m \log(e) + m \log(x))} + 3024 * A * a * b^2 * d^3 * m * n^6 * x * e^{(m \log(e) + m \log(x))} + 2520 * B * a * b^2 * d^3 * m * n^6 * x * e^{(m \log(e) + m \log(x))} + 840 * A * b^3 * d^3 * m * n^6 * x * e^{(m \log(e) + m \log(x))} + 720 * B * b^3 * d^3 * m * n^6 * x * e^{(m \log(e) + m \log(x))} + 5040 * A * a^3 * c^3 * n^7 * x * e^{(m \log(e) + m \log(x))} + 7 * B * b^3 * d^3 * m^6 * x * x^{(7 * n)} * e^{(m \log(e) + m \log(x))} + 126 * B * b^3 * d^3 * m^5 * n * x * x^{(7 * n)} * e^{(m \log(e) + m \log(x))} + 875 * B * b^3 * d^3 * m^4 * n^2 * x * x^{(7 * n)} * e^{(m \log(e) + m \log(x))} + 2940 * B * b^3 * d^3 * m^3 * n^3 * x * x^{(7 * n)} * e^{(m \log(e) + m \log(x))} + 4872 * B * b^3 * d^3 * m^2 * n^4 * x * x^{(7 * n)} * e^{(m \log(e) + m \log(x))} + 3528 * B * b^3 * d^3 * m * n^5 * x * x^{(7 * n)} * e^{(m \log(e) + m \log(x))} + 720 * B * b^3 * d^3 * n^6 * x * x^{(7 * n)} * e^{(m \log(e) + m \log(x))} + m \log(x)) + 21 * B * b^3 * c * d^2 * m^6 * x * x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 21 * B * a * b^2 * d^3 * m^6 * x * x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 7 * A * b^3 * d^3 * m^6 * x * x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 7 * B * b^3 * d^3 * m^6 * x * x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 396 * B * b^3 * c * d^2 * m^5 * n * x * x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 396 * B * a * b^2 * d^3 * m^5 * n * x * x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 132 * A * b^3 * d^3 * m^5 * n * x * x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 126 * B * b^3 * d^3 * m^5 * n * x * x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 2850 * B * b^3 * c * d^2 * m^4 * n^2 * x * x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 2850 * B * a * b^2 * d^3 * m^4 * n^2 * x * x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 950 * A * b^3 * d^3 * m^4 * n^2 * x * x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 875 * B * b^3 * d^3 * m^4 * n^2 * x * x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 9840 * B * b^3 * c * d^2 * m^3 * n^3 * x * x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 9840 * B * a * b^2 * d^3 * m^3 * n^3 * x * x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 3280 * A * b^3 * d^3 * m^3 * n^3 * x * x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 2940 * B * b^3 * d^3 * m^3 * n^3 * x * x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 16641 * B * b^3 * c * d^2 * m^2 * n^4 * x * x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 16641 * B * a * b^2 * d^3 * m^2 * n^4 * x * x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 5547 * A * b^3 * d^3 * m^2 * n^4 * x * x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 4872 * B * b^3 * d^3 * m^2 * n^4 * x * x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 12228 * B * b^3 * c * d^2 * m * n^5 * x * x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 12228 * B * a * b^2 * d^3 * m * n^5 * x * x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 4076 * A * b^3 * d^3 * m * n^5 * x * x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 3528 * B * b^3 * d^3 * m * n^5 * x * x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 2520 * B * b^3 * c * d^2 * n^6 * x * x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 2520 * B * a * b^2 * d^3 * n^6 * x * x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 840 * A * b^3 * d^3 * n^6 * x * x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 720 * B * b^3 * d^3 * n^6 * x * x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 21 * B * b^3 * c^2 * d * m^6 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 63 * B * a * b^2 * c * d^2 * m^6 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 21 * A * b^3 * c * d^2 * m^6 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 21 * B * b^3 * c * d^2 * m^6 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 21 * B * a^2 * b * d^3 * m^6 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 21 * A * a * b^2 * d^3 * m^6 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 21 * B * a * b^2 * d^3 * m^6 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 7 * A * b^3 * d^3 * m^6 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 7 * B * b^3 * d^3 * m^6 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 414 * B * b^3 * c^2 * d * m^5 * n * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 1242 * B * a * b^2 * c * d^2 * m^5 * n * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 414 * A * b^3 * c * d^2 * m^5 * n * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 396 * B * b^3 * c * d^2 * m^5 * n * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 414 * B * a^2 * b * d^3 * m^5 * n * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + m \log(x)) + 414 * A * a * b^2 * d^3 * m^5 * n * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 396 * B * a * b^2 * d^3 * m^5 * n * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 132 * A * b^3 * d^3 * m^5 * n * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 126 * B * b^3 * d^3 * m^5 * n * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} +$

$(e) + m \log(x)) + 3105 * B * b^3 * c^2 * d * m^4 * n^2 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))}$
 $) + 9315 * B * a * b^2 * c * d^2 * m^4 * n^2 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 3105 * A * b^3 * c * d^2 * m^4 * n^2 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 2850 * B * b^3 * c * d^2 * m^4 * n^2 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 3105 * B * a^2 * b * d^3 * m^4 * n^2 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 3105 * A * a * b^2 * d^3 * m^4 * n^2 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 2850 * B * a * b^2 * d^3 * m^4 * n^2 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 950 * A * b^3 * d^3 * m^4 * n^2 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 875 * B * b^3 * d^3 * m^4 * n^2 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 11100 * B * b^3 * c^2 * d * m^3 * n^3 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 33300 * B * a * b^2 * c * d^2 * m^3 * n^3 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 11100 * A * b^3 * c * d^2 * m^3 * n^3 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 9840 * B * b^3 * c * d^2 * m^3 * n^3 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 11100 * B * a^2 * b * d^3 * m^3 * n^3 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 11100 * A * a * b^2 * d^3 * m^3 * n^3 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 9840 * B * a * b^2 * d^3 * m^3 * n^3 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 3280 * A * b^3 * d^3 * m^3 * n^3 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 2940 * B * b^3 * d^3 * m^3 * n^3 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 19296 * B * b^3 * c^2 * d * m^2 * n^4 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 57888 * B * a * b^2 * c * d^2 * m^2 * n^4 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 19296 * A * b^3 * c * d^2 * m^2 * n^4 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 16641 * B * b^3 * c * d^2 * m^2 * n^4 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 19296 * B * a^2 * b * d^3 * m^2 * n^4 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 19296 * A * a * b^2 * d^3 * m^2 * n^4 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 16641 * B * a * b^2 * d^3 * m^2 * n^4 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 5547 * A * b^3 * d^3 * m^2 * n^4 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 4872 * B * b^3 * d^3 * m^2 * n^4 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 14472 * B * b^3 * c^2 * d * m * n^5 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 43416 * B * a * b^2 * c * d^2 * m * n^5 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 14472 * A * b^3 * c * d^2 * m * n^5 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 12228 * B * b^3 * c * d^2 * m * n^5 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 14472 * B * a^2 * b * d^3 * m * n^5 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 14472 * A * a * b^2 * d^3 * m * n^5 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 12228 * B * a * b^2 * d^3 * m * n^5 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 4076 * A * b^3 * d^3 * m * n^5 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 3528 * B * b^3 * d^3 * m * n^5 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 3024 * B * b^3 * c^2 * d * n^6 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 9072 * B * a * b^2 * c * d^2 * n^6 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 3024 * A * b^3 * c * d^2 * n^6 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 2520 * B * b^3 * c * d^2 * n^6 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 3024 * B * a^2 * b * d^3 * n^6 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 3024 * A * a * b^2 * d^3 * n^6 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 2520 * B * a * b^2 * d^3 * n^6 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 840 * A * b^3 * d^3 * n^6 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 720 * B * b^3 * d^3 * n^6 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 7 * B * b^3 * c^3 * m^6 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 63 * B * a * b^2 * c^2 * d * m^6 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 21 * A * b^3 * c^2 * d * m^6 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 21 * B * b^3 * c^2 * d * m^6 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 63 * B * a^2 * b * c * d^2 * m^6 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 63 * A * a * b^2 * c * d^2 * m^6 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 63 * B * a * b^2 * c * d^2 * m^6 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 21 * A * b^3 * c * d^2 * m^6 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 21 * B * b^3 * c * d^2 * m^6 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 7 * B * a^3 * d^3 * m^6 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 21 * A * a^2 * b * d^3 * m^6 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 21 * B * a^2 * b * d^3 * m^6 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} +$

$21*A*a*b^2*d^3*m^6*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 21*B*a*b^2*d^3*m^6*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 7*A*b^3*d^3*m^6*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 7*B*b^3*d^3*m^6*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 144*B*b^3*c^3*m^5*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 1296*B*a*b^2*c^2*d*m^5*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 432*A*b^3*c^2*d*m^5*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 414*B*b^3*c^2*d*m^5*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 1296*B*a^2*b*c*d^2*m^5*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 1296*A*a*b^2*c*d^2*m^5*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 1242*B*a*b^2*c*d^2*m^5*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 414*A*b^3*c*d^2*m^5*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 396*B*b^3*c*d^2*m^5*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 144*B*a^3*d^3*m^5*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 432*A*a^2*b*d^3*m^5*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 414*B*a^2*b*d^3*m^5*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 396*B*a*b^2*d^3*m^5*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 132*A*b^3*d^3*m^5*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 126*B*b^3*d^3*m^5*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 1130*B*b^3*c^3*m^4*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 10170*B*a*b^2*c^2*d*m^4*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3390*A*b^3*c^2*d*m^4*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3105*B*b^3*c^2*d*m^4*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 10170*B*a^2*b*c*d^2*m^4*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 10170*A*a*b^2*c*d^2*m^4*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 9315*B*a*b^2*c*d^2*m^4*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3105*A*b^3*c*d^2*m^4*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 2850*B*b^3*c*d^2*m^4*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 1130*B*a^3*d^3*m^4*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3390*A*a^2*b*d^3*m^4*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3105*B*a^2*b*d^3*m^4*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3105*A*a*b^2*d^3*m^4*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 2850*B*a*b^2*d^3*m^4*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 950*A*b^3*d^3*m^4*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 875*B*b^3*d^3*m^4*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 4224*B*b^3*c^3*m^3*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 38016*B*a*b^2*c^2*d*m^3*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 12672*A*b^3*c^2*d*m^3*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 11100*B*b^3*c^2*d*m^3*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 38016*B*a^2*b*c*d^2*m^3*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 33300*B*a*b^2*c*d^2*m^3*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 11100*A*b^3*c*d^2*m^3*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 9840*B*b^3*c*d^2*m^3*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 4224*B*a^3*d^3*m^3*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 12672*A*a^2*b*d^3*m^3*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 11100*B*a^2*b*d^3*m^3*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 11100*A*a*b^2*d^3*m^3*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 9840*B*a*b^2*d^3*m^3*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3280*A*b^3*d^3*m^3*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 2940*B*b^3*d^3*m^3*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 7635*B*b^3*c^3*m^2*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 68715*B*a*b^2*c^2*d*m^2*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 22905*A*b^3*c^2*d*m^2*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 19296*B*b^3*c^2*d*m^2*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 68715*B*a^2*b*c*d^$

$$\begin{aligned}
& 2*m^2*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 68715*A*a*b^2*c*d^2*m^2*n^4*x \\
& *x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 57888*B*a*b^2*c*d^2*m^2*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 19296*A*b^3*c*d^2*m^2*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 16641*B*b^3*c*d^2*m^2*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 76 \\
& 35*B*a^3*d^3*m^2*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 22905*A*a^2*b*d^3*m^2*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 19296*B*a^2*b*d^3*m^2*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 19296*A*a*b^2*d^3*m^2*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 16641*B*a*b^2*d^3*m^2*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 5547*A*b^3*d^3*m^2*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 4872*B*b^3*d^3*m^2*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 5904*B*b^3*c^3*m^n^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 53136*B*a*b^2*c^2*d*m^n^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 17712*A*b^3*c^2*d*m^n^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 14472*B*b^3*c^2*d*m^n^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 53136*B*a^2*b \\
& *c*d^2*m^n^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 53136*A*a*b^2*c*d^2*m^n^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 43416*B*a*b^2*c*d^2*m^n^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 14472*A*b^3*c*d^2*m^n^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 12228*B*b^3*c*d^2*m^n^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 5904*B \\
& a^3*d^3*m^n^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 17712*A*a^2*b*d^3*m^n^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 14472*B*a^2*b*d^3*m^n^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 14472*A*a*b^2*d^3*m^n^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 12228*B*a*b^2*d^3*m^n^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 4076*A*b^3 \\
& *d^3*m^n^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3528*B*b^3*d^3*m^n^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 1260*B*b^3*c^3*n^6*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 11340*B*a*b^2*c^2*d*n^6*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3780*A \\
& *b^3*c^2*d*n^6*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3024*B*b^3*c^2*d*n^6*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 11340*B*a^2*b*c*d^2*n^6*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 11340*A*a*b^2*c*d^2*n^6*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 9072*B*a*b^2*c*d^2*n^6*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3024*A*b^3*c \\
& d^2*n^6*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 2520*B*b^3*c*d^2*n^6*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 1260*B*a^3*d^3*n^6*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3780*A*a^2*b*d^3*n^6*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3024*B*a^2*b \\
& *d^3*n^6*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3024*A*a*b^2*d^3*n^6*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 2520*B*a*b^2*d^3*n^6*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 840*A*b^3*d^3*n^6*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 720*B*b^3*d^3 \\
& *n^6*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 21*B*a*b^2*c^3*m^6*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 7*A*b^3*c^3*m^6*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 7 \\
& *B*b^3*c^3*m^6*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 63*B*a^2*b*c^2*d*m^6*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 63*A*a*b^2*c^2*d*m^6*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 63*B*a*b^2*c^2*d*m^6*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 21* \\
& A*b^3*c^2*d*m^6*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 21*B*b^3*c^2*d*m^6*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 21*B*a^3*c*d^2*m^6*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 63*A*a^2*b*c*d^2*m^6*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 63*B*a \\
& ^2*b*c*d^2*m^6*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 63*A*a*b^2*c*d^2*m^6*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 63*B*a*b^2*c*d^2*m^6*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 21*A*b^3*c*d^2*m^6*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 21*B*
\end{aligned}$$

$$\begin{aligned}
& b^3 c^d 2^m 6^x x^{(3n)} e^{(m \log(e) + m \log(x))} + 7 A^a 3^d 3^m 6^x x^{(3n)} \\
& e^{(m \log(e) + m \log(x))} + 7 B^a 3^d 3^m 6^x x^{(3n)} e^{(m \log(e) + m \log(x))} \\
& + 21 A^a 2^b d^3 m 6^x x^{(3n)} e^{(m \log(e) + m \log(x))} + 21 B^a 2^b d^3 m \\
& 6^x x^{(3n)} e^{(m \log(e) + m \log(x))} + 21 A^a b^2 d^3 m 6^x x^{(3n)} e^{(m \log(e) + m \log(x))} \\
& + 21 B^a b^2 d^3 m 6^x x^{(3n)} e^{(m \log(e) + m \log(x))} + 7 \\
& A^a b^3 d^3 m 6^x x^{(3n)} e^{(m \log(e) + m \log(x))} + 7 B^a b^3 d^3 m 6^x x^{(3n)} \\
& e^{(m \log(e) + m \log(x))} + 450 B^a b^2 c^3 m^5 n^x x^{(3n)} e^{(m \log(e) + m \log(x))} \\
& + 150 A^a b^3 c^3 m^5 n^x x^{(3n)} e^{(m \log(e) + m \log(x))} + 144 B^a b^3 \\
& c^3 m^5 n^x x^{(3n)} e^{(m \log(e) + m \log(x))} + 1350 B^a 2^b c^2 d^m 5^n x^x \\
& x^{(3n)} e^{(m \log(e) + m \log(x))} + 1350 A^a b^2 c^2 d^m 5^n x^x x^{(3n)} e^{(m \log(e) + m \log(x))} \\
& + 1296 B^a b^2 c^2 d^m 5^n x^x x^{(3n)} e^{(m \log(e) + m \log(x))} + 432 A^a b^3 c^2 d^m 5^n x^x x^{(3n)} \\
& e^{(m \log(e) + m \log(x))} + 414 B^a b^3 c^2 d^m 5^n x^x x^{(3n)} e^{(m \log(e) + m \log(x))} + 450 B^a 3^c d^2 m^5 n^x x^x \\
& x^{(3n)} e^{(m \log(e) + m \log(x))} + 1350 A^a 2^b c^d 2^m 5^n x^x x^{(3n)} e^{(m \log(e) + m \log(x))} \\
& + 1296 B^a 2^b c^d 2^m 5^n x^x x^{(3n)} e^{(m \log(e) + m \log(x))} + 1296 A^a b^2 c^d 2^m 5^n x^x x^{(3n)} \\
& e^{(m \log(e) + m \log(x))} + 1242 B^a b^2 c^d 2^m 5^n x^x x^{(3n)} e^{(m \log(e) + m \log(x))} + 414 A^a b^3 c^d 2^m 5^n x^x x^{(3n)} \\
& e^{(m \log(e) + m \log(x))} + 396 B^a b^3 c^d 2^m 5^n x^x x^{(3n)} e^{(m \log(e) + m \log(x))} \\
& + 150 A^a 3^d 3^m 5^n x^x x^{(3n)} e^{(m \log(e) + m \log(x))} + 144 B^a 3^d 3^m 5^n x^x x^{(3n)} \\
& e^{(m \log(e) + m \log(x))} + 432 A^a 2^b d^3 m^5 n^x x^x x^{(3n)} e^{(m \log(e) + m \log(x))} + 414 B^a 2^b d^3 m^5 n^x x^x x^{(3n)} \\
& e^{(m \log(e) + m \log(x))} + 414 A^a b^2 d^3 m^5 n^x x^x x^{(3n)} e^{(m \log(e) + m \log(x))} + 396 B^a b^2 d^3 m^5 n^x x^x x^{(3n)} \\
& e^{(m \log(e) + m \log(x))} + 132 A^a b^3 d^3 m^5 n^x x^x x^{(3n)} e^{(m \log(e) + m \log(x))} + 126 B^a b^3 d^3 m^5 n^x x^x x^{(3n)} \\
& e^{(m \log(e) + m \log(x))} + 3705 B^a b^2 c^3 m^4 n^2 x^x x^{(3n)} e^{(m \log(e) + m \log(x))} + 1235 A^a b^3 c^3 m^4 n^2 x^x x^{(3n)} \\
& e^{(m \log(e) + m \log(x))} + 1130 B^a b^3 c^3 m^4 n^2 x^x x^{(3n)} e^{(m \log(e) + m \log(x))} + 11115 B^a 2^b c^2 d^m 4^n \\
& 2^x x^x x^{(3n)} e^{(m \log(e) + m \log(x))} + 11115 A^a b^2 c^2 d^m 4^n 2^x x^x x^{(3n)} e^{(m \log(e) + m \log(x))} \\
& + 10170 B^a b^2 c^2 d^m 4^n 2^x x^x x^{(3n)} e^{(m \log(e) + m \log(x))} + 3390 A^a b^3 c^2 d^m 4^n 2^x x^x x^{(3n)} \\
& e^{(m \log(e) + m \log(x))} + 3105 B^a b^3 c^2 d^m 4^n 2^x x^x x^{(3n)} e^{(m \log(e) + m \log(x))} + 3705 B^a 3^c d^2 m^4 n^2 x^x x^{(3n)} \\
& e^{(m \log(e) + m \log(x))} + 11115 A^a 2^b c^d 2^m 4^n 2^x x^x x^{(3n)} e^{(m \log(e) + m \log(x))} + 10170 B^a 2^b c^d 2^m 4^n 2^x x^x x^{(3n)} \\
& e^{(m \log(e) + m \log(x))} + 10170 A^a b^2 c^d 2^m 4^n 2^x x^x x^{(3n)} e^{(m \log(e) + m \log(x))} + 9315 B^a b^2 c^d 2^m 4^n 2^x x^x x^{(3n)} \\
& e^{(m \log(e) + m \log(x))} + 3105 A^a b^3 c^d 2^m 4^n 2^x x^x x^{(3n)} e^{(m \log(e) + m \log(x))} + 2850 B^a b^3 c^d 2^m 4^n 2^x x^x x^{(3n)} \\
& e^{(m \log(e) + m \log(x))} + 1235 A^a 3^d 3^m 4^n 2^x x^x x^{(3n)} e^{(m \log(e) + m \log(x))} + 1130 B^a 3^d 3^m 4^n 2^x x^x x^{(3n)} \\
& e^{(m \log(e) + m \log(x))} + 3390 A^a 2^b d^3 m^4 n^2 x^x x^{(3n)} e^{(m \log(e) + m \log(x))} + 3105 B^a 2^b d^3 m^4 n^2 x^x x^{(3n)} \\
& e^{(m \log(e) + m \log(x))} + 2850 B^a b^2 d^3 m^4 n^2 x^x x^{(3n)} e^{(m \log(e) + m \log(x))} + 950 A^a b^3 d^3 m^4 n^2 x^x x^{(3n)} \\
& e^{(m \log(e) + m \log(x))} + 875 B^a b^3 d^3 m^4 n^2 x^x x^{(3n)} e^{(m \log(e) + m \log(x))} + 14628 B^a b^2 c^3 m^3 n^3 x^x x^{(3n)} \\
& e^{(m \log(e) + m \log(x))} + 4876 A^a b^3 c^3 m^3 n^3 x^x x^{(3n)} e^{(m \log(e) + m \log(x))} + 4224 B^a b^3 c^3 m^3 n^3 x^x x^{(3n)} \\
& e^{(m \log(e) + m \log(x))}
\end{aligned}$$

$*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 43884*B*a^2*b*c^2*d*m^3*n^3*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 43884*A*a*b^2*c^2*d*m^3*n^3*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 38016*B*a*b^2*c^2*d*m^3*n^3*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 12672*A*b^3*c^2*d*m^3*n^3*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 11100*B*b^3*c^2*d*m^3*n^3*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 14628*B*a^3*c*d^2*m^3*n^3*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 43884*A*a^2*b*c*d^2*m^3*n^3*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 38016*B*a^2*b*c*d^2*m^3*n^3*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 38016*A*a*b^2*c*d^2*m^3*n^3*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 33300*B*a*b^2*c*d^2*m^3*n^3*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 11100*A*b^3*c*d^2*m^3*n^3*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 9840*B*b^3*c*d^2*m^3*n^3*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 4876*A*a^3*d^3*m^3*n^3*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 4224*B*a^3*d^3*m^3*n^3*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 12672*A*a^2*b*d^3*m^3*n^3*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 11100*B*a^2*b*d^3*m^3*n^3*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 11100*A*a*b^2*d^3*m^3*n^3*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 9840*B*a*b^2*d^3*m^3*n^3*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 3280*A*b^3*d^3*m^3*n^3*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 2940*B*b^3*d^3*m^3*n^3*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 28008*B*a*b^2*c^3*m^2*n^4*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 9336*A*b^3*c^3*m^2*n^4*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 7635*B*b^3*c^3*m^2*n^4*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 84024*B*a^2*b*c^2*d*m^2*n^4*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 84024*A*a*b^2*c^2*d*m^2*n^4*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 68715*B*a*b^2*c^2*d*m^2*n^4*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 22905*A*b^3*c^2*d*m^2*n^4*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 19296*B*b^3*c^2*d*m^2*n^4*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 28008*B*a^3*c*d^2*m^2*n^4*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 84024*A*a^2*b*c*d^2*m^2*n^4*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 68715*B*a^2*b*c*d^2*m^2*n^4*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 68715*A*a*b^2*c*d^2*m^2*n^4*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 57888*B*a*b^2*c*d^2*m^2*n^4*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 19296*A*b^3*c*d^2*m^2*n^4*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 16641*B*b^3*c*d^2*m^2*n^4*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 9336*A*a^3*d^3*m^2*n^4*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 7635*B*a^3*d^3*m^2*n^4*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 22905*A*a^2*b*d^3*m^2*n^4*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 19296*B*a^2*b*d^3*m^2*n^4*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 19296*A*a*b^2*d^3*m^2*n^4*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 16641*B*a*b^2*d^3*m^2*n^4*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 5547*A*b^3*d^3*m^2*n^4*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 4872*B*b^3*d^3*m^2*n^4*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 22776*B*a*b^2*c^3*m^n^5*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 7592*A*b^3*c^3*m^n^5*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 5904*B*b^3*c^3*m^n^5*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 68328*B*a^2*b*c^2*d*m^n^5*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 68328*A*a*b^2*c^2*d*m^n^5*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 53136*B*a*b^2*c^2*d*m^n^5*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 17712*A*b^3*c^2*d*m^n^5*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 14472*B*b^3*c^2*d*m^n^5*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 22776*B*a^3*c*d^2*m^n^5*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 68328*A*a^2*b*c*d^2*m^n^5*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 53136*B*a^2*b*c*d^2*m^n^5*x*x^{(3n)}*e^{(m\log(e) + m\log(x))} + 53136*A*a*b^2*$

$g(e) + m \log(x)) + 21 * B * a * b^2 * d^3 * m^6 * x * x^{(2 * n)} * e^{(m * \log(e) + m * \log(x))} + 7$
 $* A * b^3 * d^3 * m^6 * x * x^{(2 * n)} * e^{(m * \log(e) + m * \log(x))} + 7 * B * b^3 * d^3 * m^6 * x * x^{(2 * n)}$
 $) * e^{(m * \log(e) + m * \log(x))} + 468 * B * a^2 * b * c^3 * m^5 * n * x * x^{(2 * n)} * e^{(m * \log(e) + m$
 $* \log(x))} + 468 * A * a * b^2 * c^3 * m^5 * n * x * x^{(2 * n)} * e^{(m * \log(e) + m * \log(x))} + 450 * B * a$
 $* b^2 * c^3 * m^5 * n * x * x^{(2 * n)} * e^{(m * \log(e) + m * \log(x))} + 150 * A * b^3 * c^3 * m^5 * n * x * x$
 $^{(2 * n)} * e^{(m * \log(e) + m * \log(x))} + 144 * B * b^3 * c^3 * m^5 * n * x * x^{(2 * n)} * e^{(m * \log(e)$
 $+ m * \log(x))} + 468 * B * a^3 * c^2 * d * m^5 * n * x * x^{(2 * n)} * e^{(m * \log(e) + m * \log(x))} + 140$
 $4 * A * a^2 * b * c^2 * d * m^5 * n * x * x^{(2 * n)} * e^{(m * \log(e) + m * \log(x))} + 1350 * B * a^2 * b * c^2 * d$
 $* m^5 * n * x * x^{(2 * n)} * e^{(m * \log(e) + m * \log(x))} + 1350 * A * a * b^2 * c^2 * d * m^5 * n * x * x^{(2$
 $* n)} * e^{(m * \log(e) + m * \log(x))} + 1296 * B * a * b^2 * c^2 * d * m^5 * n * x * x^{(2 * n)} * e^{(m * \log(e)$
 $) + m * \log(x))} + 432 * A * b^3 * c^2 * d * m^5 * n * x * x^{(2 * n)} * e^{(m * \log(e) + m * \log(x))} + 4$
 $14 * B * b^3 * c^2 * d * m^5 * n * x * x^{(2 * n)} * e^{(m * \log(e) + m * \log(x))} + 468 * A * a^3 * c * d^2 * m^5$
 $* n * x * x^{(2 * n)} * e^{(m * \log(e) + m * \log(x))} + 450 * B * a^3 * c * d^2 * m^5 * n * x * x^{(2 * n)} * e^{($
 $m * \log(e) + m * \log(x))} + 1350 * A * a^2 * b * c * d^2 * m^5 * n * x * x^{(2 * n)} * e^{(m * \log(e) + m * l$
 $og(x))} + 1296 * B * a^2 * b * c * d^2 * m^5 * n * x * x^{(2 * n)} * e^{(m * \log(e) + m * \log(x))} + 1296 * A$
 $* a * b^2 * c * d^2 * m^5 * n * x * x^{(2 * n)} * e^{(m * \log(e) + m * \log(x))} + 1242 * B * a * b^2 * c * d^2 * m$
 $^5 * n * x * x^{(2 * n)} * e^{(m * \log(e) + m * \log(x))} + 414 * A * b^3 * c * d^2 * m^5 * n * x * x^{(2 * n)} * e$
 $^{(m * \log(e) + m * \log(x))} + 396 * B * b^3 * c * d^2 * m^5 * n * x * x^{(2 * n)} * e^{(m * \log(e) + m * l$
 $og(x))} + 150 * A * a^3 * d^3 * m^5 * n * x * x^{(2 * n)} * e^{(m * \log(e) + m * \log(x))} + 144 * B * a^3 * d$
 $^3 * m^5 * n * x * x^{(2 * n)} * e^{(m * \log(e) + m * \log(x))} + 432 * A * a^2 * b * d^3 * m^5 * n * x * x^{(2 * n)}$
 $) * e^{(m * \log(e) + m * \log(x))} + 414 * B * a^2 * b * d^3 * m^5 * n * x * x^{(2 * n)} * e^{(m * \log(e) + m$
 $* \log(x))} + 414 * A * a * b^2 * d^3 * m^5 * n * x * x^{(2 * n)} * e^{(m * \log(e) + m * \log(x))} + 396 * B * a$
 $* b^2 * d^3 * m^5 * n * x * x^{(2 * n)} * e^{(m * \log(e) + m * \log(x))} + 132 * A * b^3 * d^3 * m^5 * n * x * x$
 $^{(2 * n)} * e^{(m * \log(e) + m * \log(x))} + 126 * B * b^3 * d^3 * m^5 * n * x * x^{(2 * n)} * e^{(m * \log(e)$
 $+ m * \log(x))} + 4050 * B * a^2 * b * c^3 * m^4 * n^2 * x * x^{(2 * n)} * e^{(m * \log(e) + m * \log(x))} +$
 $4050 * A * a * b^2 * c^3 * m^4 * n^2 * x * x^{(2 * n)} * e^{(m * \log(e) + m * \log(x))} + 3705 * B * a * b^2 * c$
 $^3 * m^4 * n^2 * x * x^{(2 * n)} * e^{(m * \log(e) + m * \log(x))} + 1235 * A * b^3 * c^3 * m^4 * n^2 * x * x^{(2$
 $* n)} * e^{(m * \log(e) + m * \log(x))} + 1130 * B * b^3 * c^3 * m^4 * n^2 * x * x^{(2 * n)} * e^{(m * \log(e)$
 $+ m * \log(x))} + 4050 * B * a^3 * c^2 * d * m^4 * n^2 * x * x^{(2 * n)} * e^{(m * \log(e) + m * \log(x))} +$
 $12150 * A * a^2 * b * c^2 * d * m^4 * n^2 * x * x^{(2 * n)} * e^{(m * \log(e) + m * \log(x))} + 11115 * B * a^2$
 $* b * c^2 * d * m^4 * n^2 * x * x^{(2 * n)} * e^{(m * \log(e) + m * \log(x))} + 11115 * A * a * b^2 * c^2 * d * m$
 $^4 * n^2 * x * x^{(2 * n)} * e^{(m * \log(e) + m * \log(x))} + 10170 * B * a * b^2 * c^2 * d * m^4 * n^2 * x * x^{(2$
 $* n)} * e^{(m * \log(e) + m * \log(x))} + 3390 * A * b^3 * c^2 * d * m^4 * n^2 * x * x^{(2 * n)} * e^{(m * \log$
 $(e) + m * \log(x))} + 3105 * B * b^3 * c^2 * d * m^4 * n^2 * x * x^{(2 * n)} * e^{(m * \log(e) + m * \log(x)$
 $)} + 4050 * A * a^3 * c * d^2 * m^4 * n^2 * x * x^{(2 * n)} * e^{(m * \log(e) + m * \log(x))} + 3705 * B * a^3$
 $* c * d^2 * m^4 * n^2 * x * x^{(2 * n)} * e^{(m * \log(e) + m * \log(x))} + 11115 * A * a^2 * b * c * d^2 * m^4 * n$
 $^2 * x * x^{(2 * n)} * e^{(m * \log(e) + m * \log(x))} + 10170 * B * a^2 * b * c * d^2 * m^4 * n^2 * x * x^{(2 * n)}$
 $) * e^{(m * \log(e) + m * \log(x))} + 10170 * A * a * b^2 * c * d^2 * m^4 * n^2 * x * x^{(2 * n)} * e^{(m * \log$
 $(e) + m * \log(x))} + 9315 * B * a * b^2 * c * d^2 * m^4 * n^2 * x * x^{(2 * n)} * e^{(m * \log(e) + m * \log(x)$
 $)} + 3105 * A * b^3 * c * d^2 * m^4 * n^2 * x * x^{(2 * n)} * e^{(m * \log(e) + m * \log(x))} + 2850 * B * b$
 $^3 * c * d^2 * m^4 * n^2 * x * x^{(2 * n)} * e^{(m * \log(e) + m * \log(x))} + 1235 * A * a^3 * d^3 * m^4 * n^2$
 $* x * x^{(2 * n)} * e^{(m * \log(e) + m * \log(x))} + 1130 * B * a^3 * d^3 * m^4 * n^2 * x * x^{(2 * n)} * e^{(m * \log$
 $(e) + m * \log(x))} + 3390 * A * a^2 * b * d^3 * m^4 * n^2 * x * x^{(2 * n)} * e^{(m * \log(e) + m * \log$
 $(x))} + 3105 * B * a^2 * b * d^3 * m^4 * n^2 * x * x^{(2 * n)} * e^{(m * \log(e) + m * \log(x))} + 3105 * A * a$
 $* b^2 * d^3 * m^4 * n^2 * x * x^{(2 * n)} * e^{(m * \log(e) + m * \log(x))} + 2850 * B * a * b^2 * d^3 * m^4 *$

$$\begin{aligned}
& n^2 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 950 * A * b^3 * d^3 * m^4 * n^2 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 875 * B * b^3 * d^3 * m^4 * n^2 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 17040 * B * a^2 * b * c^3 * m^3 * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 17040 * A * a * b^2 * c^3 * m^3 * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 14628 * B * a * b^2 * c^3 * m^3 * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 4876 * A * b^3 * c^3 * m^3 * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 4224 * B * b^3 * c^3 * m^3 * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 17040 * B * a^3 * c^2 * d * m^3 * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 51120 * A * a^2 * b * c^2 * d * m^3 * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 43884 * B * a^2 * b * c^2 * d * m^3 * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 43884 * A * a * b^2 * c^2 * d * m^3 * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 38016 * B * a * b^2 * c^2 * d * m^3 * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 12672 * A * b^3 * c^2 * d * m^3 * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 11100 * B * b^3 * c^2 * d * m^3 * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 17040 * A * a^3 * c * d^2 * m^3 * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 14628 * B * a^3 * c * d^2 * m^3 * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 43884 * A * a^2 * b * c * d^2 * m^3 * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 38016 * B * a^2 * b * c * d^2 * m^3 * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 38016 * A * a * b^2 * c * d^2 * m^3 * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 33300 * B * a * b^2 * c * d^2 * m^3 * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 11100 * A * b^3 * c * d^2 * m^3 * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 9840 * B * b^3 * c * d^2 * m^3 * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 4876 * A * a^3 * d^3 * m^3 * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 4224 * B * a^3 * d^3 * m^3 * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 12672 * A * a^2 * b * d^3 * m^3 * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 11100 * B * a^2 * b * d^3 * m^3 * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 11100 * A * a * b^2 * d^3 * m^3 * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 9840 * B * a * b^2 * d^3 * m^3 * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 3280 * A * b^3 * d^3 * m^3 * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 2940 * B * b^3 * d^3 * m^3 * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 35361 * B * a^2 * b * c^3 * m^2 * n^4 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 35361 * A * a * b^2 * c^3 * m^2 * n^4 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 28008 * B * a * b^2 * c^3 * m^2 * n^4 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 9336 * A * b^3 * c^3 * m^2 * n^4 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 7635 * B * b^3 * c^3 * m^2 * n^4 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 35361 * B * a^3 * c^2 * d * m^2 * n^4 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 106083 * A * a^2 * b * c^2 * d * m^2 * n^4 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 84024 * B * a^2 * b * c^2 * d * m^2 * n^4 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 84024 * A * a * b^2 * c^2 * d * m^2 * n^4 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 68715 * B * a * b^2 * c^2 * d * m^2 * n^4 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 22905 * A * b^3 * c^2 * d * m^2 * n^4 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 19296 * B * b^3 * c^2 * d * m^2 * n^4 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 35361 * A * a^3 * c * d^2 * m^2 * n^4 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 28008 * B * a^3 * c * d^2 * m^2 * n^4 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 84024 * A * a^2 * b * c * d^2 * m^2 * n^4 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 68715 * B * a^2 * b * c * d^2 * m^2 * n^4 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 68715 * A * a * b^2 * c * d^2 * m^2 * n^4 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 57888 * B * a * b^2 * c * d^2 * m^2 * n^4 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 19296 * A * b^3 * c * d^2 * m^2 * n^4 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 16641 * B * b^3 * c * d^2 * m^2 * n^4 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 9336 * A * a^3 * d^3 * m^2 * n^4 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 7635 * B * a^3 * d^3 * m^2 * n^4 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 22905 * A * a^2 * b * d^3 * m^2 * n^4 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 19296 * B * a^2 * b * d^3 * m^2 * n^4 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 19296 * B * a^2 * b * d^3 * m^2 * n^4 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + m \log(
\end{aligned}$$

$x)) + 19296*A*a*b^2*d^3*m^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 16641*B$
 $*a*b^2*d^3*m^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 5547*A*b^3*d^3*m^2*n$
 $^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 4872*B*b^3*d^3*m^2*n^4*x*x^{(2*n)}*e^{($
 $m*\log(e) + m*\log(x))} + 31644*B*a^2*b*c^3*m*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*lo$
 $g(x))} + 31644*A*a*b^2*c^3*m*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 22776*B$
 $*a*b^2*c^3*m*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 7592*A*b^3*c^3*m*n^5*x$
 $*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 5904*B*b^3*c^3*m*n^5*x*x^{(2*n)}*e^{(m*\log($
 $e) + m*\log(x))} + 31644*B*a^3*c^2*d*m*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))}$
 $+ 94932*A*a^2*b*c^2*d*m*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 68328*B*a^2$
 $*b*c^2*d*m*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 68328*A*a*b^2*c^2*d*m*n^$
 $5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 53136*B*a*b^2*c^2*d*m*n^5*x*x^{(2*n)}*e$
 $^{(m*\log(e) + m*\log(x))} + 17712*A*b^3*c^2*d*m*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*$
 $\log(x))} + 14472*B*b^3*c^2*d*m*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 31644$
 $*A*a^3*c*d^2*m*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 22776*B*a^3*c*d^2*m$
 $n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 68328*A*a^2*b*c*d^2*m*n^5*x*x^{(2*n)}$
 $*e^{(m*\log(e) + m*\log(x))} + 53136*B*a^2*b*c*d^2*m*n^5*x*x^{(2*n)}*e^{(m*\log(e)$
 $+ m*\log(x))} + 53136*A*a*b^2*c*d^2*m*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} +$
 $43416*B*a*b^2*c*d^2*m*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 14472*A*b^3*$
 $c*d^2*m*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 12228*B*b^3*c*d^2*m*n^5*x*x$
 $^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 7592*A*a^3*d^3*m*n^5*x*x^{(2*n)}*e^{(m*\log(e)$
 $+ m*\log(x))} + 5904*B*a^3*d^3*m*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 177$
 $12*A*a^2*b*d^3*m*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 14472*B*a^2*b*d^3*$
 $m*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 14472*A*a*b^2*d^3*m*n^5*x*x^{(2*n)}$
 $*e^{(m*\log(e) + m*\log(x))} + 12228*B*a*b^2*d^3*m*n^5*x*x^{(2*n)}*e^{(m*\log(e) +$
 $m*\log(x))} + 4076*A*b^3*d^3*m*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3528*B$
 $*b^3*d^3*m*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 7560*B*a^2*b*c^3*n^6*x*x$
 $^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 7560*A*a*b^2*c^3*n^6*x*x^{(2*n)}*e^{(m*\log(e)$
 $+ m*\log(x))} + 5040*B*a*b^2*c^3*n^6*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 168$
 $0*A*b^3*c^3*n^6*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1260*B*b^3*c^3*n^6*x*x^{($
 $2*n)}*e^{(m*\log(e) + m*\log(x))} + 7560*B*a^3*c^2*d*n^6*x*x^{(2*n)}*e^{(m*\log(e)$
 $+ m*\log(x))} + 22680*A*a^2*b*c^2*d*n^6*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1$
 $5120*B*a^2*b*c^2*d*n^6*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 15120*A*a*b^2*c^$
 $2*d*n^6*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 11340*B*a*b^2*c^2*d*n^6*x*x^{(2*$
 $n)}*e^{(m*\log(e) + m*\log(x))} + 3780*A*b^3*c^2*d*n^6*x*x^{(2*n)}*e^{(m*\log(e) + m$
 $*\log(x))} + 3024*B*b^3*c^2*d*n^6*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 7560*A$
 $a^3*c*d^2*n^6*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 5040*B*a^3*c*d^2*n^6*x*x^{($
 $2*n)}*e^{(m*\log(e) + m*\log(x))} + 15120*A*a^2*b*c*d^2*n^6*x*x^{(2*n)}*e^{(m*\log($
 $e) + m*\log(x))} + 11340*B*a^2*b*c*d^2*n^6*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))}$
 $+ 11340*A*a*b^2*c*d^2*n^6*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 9072*B*a*b^2*$
 $c*d^2*n^6*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3024*A*b^3*c*d^2*n^6*x*x^{(2*n)}$
 $)e^{(m*\log(e) + m*\log(x))} + 2520*B*b^3*c*d^2*n^6*x*x^{(2*n)}*e^{(m*\log(e) + m*$
 $\log(x))} + 1680*A*a^3*d^3*n^6*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1260*B*a^3$
 $*d^3*n^6*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3780*A*a^2*b*d^3*n^6*x*x^{(2*n)}$
 $*e^{(m*\log(e) + m*\log(x))} + 3024*B*a^2*b*d^3*n^6*x*x^{(2*n)}*e^{(m*\log(e) + m*$
 $\log(x))} + 3024*A*a*b^2*d^3*n^6*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 2520*B*a*$

$$\begin{aligned}
& b^2 d^3 n^6 x x^{(2n)} e^{(m \log(e) + m \log(x))} + 840 A b^3 d^3 n^6 x x^{(2n)} \\
& * e^{(m \log(e) + m \log(x))} + 720 B b^3 d^3 n^6 x x^{(2n)} e^{(m \log(e) + m \log(x))} \\
& + 7 B a^3 c^3 m^6 x x^n e^{(m \log(e) + m \log(x))} + 21 A a^2 b c^3 m^6 x x^n \\
& e^{(m \log(e) + m \log(x))} + 21 B a^2 b c^3 m^6 x x^n e^{(m \log(e) + m \log(x))} \\
& + 21 A a b^2 c^3 m^6 x x^n e^{(m \log(e) + m \log(x))} + 21 B a b^2 c^3 m^6 \\
& * x x^n e^{(m \log(e) + m \log(x))} + 7 A b^3 c^3 m^6 x x^n e^{(m \log(e) + m \log(x))} \\
& + 7 B b^3 c^3 m^6 x x^n e^{(m \log(e) + m \log(x))} + 21 A a^3 c^2 d m^6 x x^n \\
& e^{(m \log(e) + m \log(x))} + 21 B a^3 c^2 d m^6 x x^n e^{(m \log(e) + m \log(x))} \\
& + 63 A a^2 b c^2 d m^6 x x^n e^{(m \log(e) + m \log(x))} + 63 B a^2 b c^2 d \\
& * m^6 x x^n e^{(m \log(e) + m \log(x))} + 63 A a b^2 c^2 d m^6 x x^n e^{(m \log(e) + m \log(x))} \\
& + m \log(x)) + 63 B a b^2 c^2 d m^6 x x^n e^{(m \log(e) + m \log(x))} + 21 A b^3 \\
& c^2 d m^6 x x^n e^{(m \log(e) + m \log(x))} + 21 B b^3 c^2 d m^6 x x^n e^{(m \log(e) + m \log(x))} \\
& + 21 A a^3 c d^2 m^6 x x^n e^{(m \log(e) + m \log(x))} + 63 A a^2 b c d^2 m^6 x x^n e \\
& ^{(m \log(e) + m \log(x))} + 63 B a^2 b c d^2 m^6 x x^n e^{(m \log(e) + m \log(x))} \\
& + 63 A a b^2 c d^2 m^6 x x^n e^{(m \log(e) + m \log(x))} + 63 B a b^2 c d^2 m^6 \\
& * x x^n e^{(m \log(e) + m \log(x))} + 21 A b^3 c d^2 m^6 x x^n e^{(m \log(e) + m \log(x))} \\
& + 21 B b^3 c d^2 m^6 x x^n e^{(m \log(e) + m \log(x))} + 7 A a^3 d^3 m^6 \\
& * x x^n e^{(m \log(e) + m \log(x))} + 7 B a^3 d^3 m^6 x x^n e^{(m \log(e) + m \log(x))} \\
& + 21 A a^2 b d^3 m^6 x x^n e^{(m \log(e) + m \log(x))} + 21 B a^2 b d^3 m^6 \\
& * x x^n e^{(m \log(e) + m \log(x))} + 21 A a b^2 d^3 m^6 x x^n e^{(m \log(e) + m \log(x))} \\
& + 21 B a b^2 d^3 m^6 x x^n e^{(m \log(e) + m \log(x))} + 7 A b^3 d^3 m^6 \\
& * x x^n e^{(m \log(e) + m \log(x))} + 7 B b^3 d^3 m^6 x x^n e^{(m \log(e) + m \log(x))} \\
& + 162 B a^3 c^3 m^5 n x x^n e^{(m \log(e) + m \log(x))} + 486 A a^2 b c^3 m^5 \\
& * n x x^n e^{(m \log(e) + m \log(x))} + 468 B a^2 b c^3 m^5 n x x^n e^{(m \log(e) + m \log(x))} \\
& + m \log(x)) + 468 A a b^2 c^3 m^5 n x x^n e^{(m \log(e) + m \log(x))} + 450 B \\
& * a b^2 c^3 m^5 n x x^n e^{(m \log(e) + m \log(x))} + 150 A b^3 c^3 m^5 n x x^n \\
& * e^{(m \log(e) + m \log(x))} + 144 B b^3 c^3 m^5 n x x^n e^{(m \log(e) + m \log(x))} \\
&) + 486 A a^3 c^2 d m^5 n x x^n e^{(m \log(e) + m \log(x))} + 468 B a^3 c^2 d m \\
& ^5 n x x^n e^{(m \log(e) + m \log(x))} + 1404 A a^2 b c^2 d m^5 n x x^n e^{(m \log(e) + m \log(x))} \\
& + 1350 B a^2 b c^2 d m^5 n x x^n e^{(m \log(e) + m \log(x))} + 1296 B a b^2 c^2 \\
& * d m^5 n x x^n e^{(m \log(e) + m \log(x))} + 432 A b^3 c^2 d m^5 n x x^n e^{(m \log(e) + m \log(x))} \\
& + 414 B b^3 c^2 d m^5 n x x^n e^{(m \log(e) + m \log(x))} + 468 A a^3 c d^2 m^5 \\
& * n x x^n e^{(m \log(e) + m \log(x))} + 450 B a^3 c d^2 m^5 n x x^n e^{(m \log(e) + m \log(x))} \\
& + 1350 A a^2 b c d^2 m^5 n x x^n e^{(m \log(e) + m \log(x))} + 1296 B a^2 b c d^2 \\
& * m^5 n x x^n e^{(m \log(e) + m \log(x))} + 1296 A a b^2 c d^2 m^5 n x x^n e^{(m \log(e) + m \log(x))} \\
& + 1242 B a b^2 c d^2 m^5 n x x^n e^{(m \log(e) + m \log(x))} + 414 A b^3 c d^2 m^5 \\
& * n x x^n e^{(m \log(e) + m \log(x))} + 396 B b^3 c d^2 m^5 n x x^n e^{(m \log(e) + m \log(x))} \\
& + 150 A a^3 d^3 m^5 n x x^n e^{(m \log(e) + m \log(x))} + 144 B a^3 d^3 m^5 n x x^n e^{(m \log(e) + m \log(x))} \\
& + 432 A a^2 b d^3 m^5 n x x^n e^{(m \log(e) + m \log(x))} + 414 B a^2 b d^3 m^5 \\
& * n x x^n e^{(m \log(e) + m \log(x))} + 414 A a b^2 d^3 m^5 n x x^n e^{(m \log(e) + m \log(x))} \\
& + 396 B a b^2 d^3 m^5 n x x^n e^{(m \log(e) + m \log(x))} + 132 A b^3 d^3 m^5 \\
& * n x x^n e^{(m \log(e) + m \log(x))} + 126 B b^3 d^3
\end{aligned}$$

$$\begin{aligned}
&^3m^5n^*x^*x^n e^{(m\log(e) + m\log(x))} + 1475B^*a^3c^3m^4n^2x^*x^n e^{(m\log(e) + m\log(x))} + 4425A^*a^2b^*c^3m^4n^2x^*x^n e^{(m\log(e) + m\log(x))} \\
&+ 4050B^*a^2b^*c^3m^4n^2x^*x^n e^{(m\log(e) + m\log(x))} + 4050A^*a^*b^2c^3m^4n^2x^*x^n e^{(m\log(e) + m\log(x))} + 3705B^*a^*b^2c^3m^4n^2x^*x^n e^{(m\log(e) + m\log(x))} \\
&+ 1235A^*b^3c^3m^4n^2x^*x^n e^{(m\log(e) + m\log(x))} + 1130B^*b^3c^3m^4n^2x^*x^n e^{(m\log(e) + m\log(x))} + 4425A^*a^3c^2d^*m^4n^2x^*x^n e^{(m\log(e) + m\log(x))} \\
&+ 4050B^*a^3c^2d^*m^4n^2x^*x^n e^{(m\log(e) + m\log(x))} + 12150A^*a^2b^*c^2d^*m^4n^2x^*x^n e^{(m\log(e) + m\log(x))} + 11115B^*a^2b^*c^2d^*m^4n^2x^*x^n e^{(m\log(e) + m\log(x))} \\
&+ 11115A^*a^*b^2c^2d^*m^4n^2x^*x^n e^{(m\log(e) + m\log(x))} + 10170B^*a^*b^2c^2d^*m^4n^2x^*x^n e^{(m\log(e) + m\log(x))} + 3390A^*b^3c^2d^*m^4n^2x^*x^n e^{(m\log(e) + m\log(x))} \\
&+ 3105B^*b^3c^2d^*m^4n^2x^*x^n e^{(m\log(e) + m\log(x))} + 4050A^*a^3c^d^2m^4n^2x^*x^n e^{(m\log(e) + m\log(x))} + 3705B^*a^3c^d^2m^4n^2x^*x^n e^{(m\log(e) + m\log(x))} \\
&+ 11115A^*a^2b^*c^d^2m^4n^2x^*x^n e^{(m\log(e) + m\log(x))} + 10170B^*a^2b^*c^d^2m^4n^2x^*x^n e^{(m\log(e) + m\log(x))} + 10170A^*a^*b^2c^d^2m^4n^2x^*x^n e^{(m\log(e) + m\log(x))} \\
&+ 9315B^*a^*b^2c^d^2m^4n^2x^*x^n e^{(m\log(e) + m\log(x))} + 3105A^*b^3c^d^2m^4n^2x^*x^n e^{(m\log(e) + m\log(x))} + 2850B^*b^3c^d^2m^4n^2x^*x^n e^{(m\log(e) + m\log(x))} \\
&+ 1235A^*a^3d^3m^4n^2x^*x^n e^{(m\log(e) + m\log(x))} + 1130B^*a^3d^3m^4n^2x^*x^n e^{(m\log(e) + m\log(x))} + 3390A^*a^2b^*d^3m^4n^2x^*x^n e^{(m\log(e) + m\log(x))} \\
&+ 3105B^*a^2b^*d^3m^4n^2x^*x^n e^{(m\log(e) + m\log(x))} + 3105A^*a^*b^2d^3m^4n^2x^*x^n e^{(m\log(e) + m\log(x))} + 2850B^*a^*b^2d^3m^4n^2x^*x^n e^{(m\log(e) + m\log(x))} \\
&+ 950A^*b^3d^3m^4n^2x^*x^n e^{(m\log(e) + m\log(x))} + 875B^*b^3d^3m^4n^2x^*x^n e^{(m\log(e) + m\log(x))} + 6660B^*a^3c^3m^3n^3x^*x^n e^{(m\log(e) + m\log(x))} \\
&+ 19980A^*a^2b^*c^3m^3n^3x^*x^n e^{(m\log(e) + m\log(x))} + 17040B^*a^2b^*c^3m^3n^3x^*x^n e^{(m\log(e) + m\log(x))} + 17040A^*a^*b^2c^3m^3n^3x^*x^n e^{(m\log(e) + m\log(x))} \\
&+ 14628B^*a^*b^2c^3m^3n^3x^*x^n e^{(m\log(e) + m\log(x))} + 4876A^*b^3c^3m^3n^3x^*x^n e^{(m\log(e) + m\log(x))} + 4224B^*b^3c^3m^3n^3x^*x^n e^{(m\log(e) + m\log(x))} \\
&+ 19980A^*a^3c^2d^*m^3n^3x^*x^n e^{(m\log(e) + m\log(x))} + 17040B^*a^3c^2d^*m^3n^3x^*x^n e^{(m\log(e) + m\log(x))} + 51120A^*a^2b^*c^2d^*m^3n^3x^*x^n e^{(m\log(e) + m\log(x))} \\
&+ 43884B^*a^2b^*c^2d^*m^3n^3x^*x^n e^{(m\log(e) + m\log(x))} + 43884A^*a^*b^2c^2d^*m^3n^3x^*x^n e^{(m\log(e) + m\log(x))} + 38016B^*a^*b^2c^2d^*m^3n^3x^*x^n e^{(m\log(e) + m\log(x))} \\
&+ 12672A^*b^3c^2d^*m^3n^3x^*x^n e^{(m\log(e) + m\log(x))} + 11100B^*b^3c^2d^*m^3n^3x^*x^n e^{(m\log(e) + m\log(x))} + 17040A^*a^3c^d^2m^3n^3x^*x^n e^{(m\log(e) + m\log(x))} \\
&+ 14628B^*a^3c^d^2m^3n^3x^*x^n e^{(m\log(e) + m\log(x))} + 43884A^*a^2b^*c^d^2m^3n^3x^*x^n e^{(m\log(e) + m\log(x))} + 38016B^*a^2b^*c^d^2m^3n^3x^*x^n e^{(m\log(e) + m\log(x))} \\
&+ 38016A^*a^*b^2c^d^2m^3n^3x^*x^n e^{(m\log(e) + m\log(x))} + 33300B^*a^*b^2c^d^2m^3n^3x^*x^n e^{(m\log(e) + m\log(x))} + 11100A^*b^3c^d^2m^3n^3x^*x^n e^{(m\log(e) + m\log(x))} \\
&+ 9840B^*b^3c^d^2m^3n^3x^*x^n e^{(m\log(e) + m\log(x))} + 4876A^*a^3d^3m^3n^3x^*x^n e^{(m\log(e) + m\log(x))} + 4224B^*a^3d^3m^3n^3x^*x^n e^{(m\log(e) + m\log(x))} \\
&+ 12672A^*a^2b^*d^3m^3n^3x^*x^n e^{(m\log(e) + m\log(x))} + 11100B^*a^2b^*d^3m^3n^3x^*x^n e^{(m\log(e) + m\log(x))}
\end{aligned}$$

$x)) + 11100*A*a*b^2*d^3*m^3*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 9840*B*a*b^2*d^3*m^3*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3280*A*b^3*d^3*m^3*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2940*B*b^3*d^3*m^3*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15312*B*a^3*c^3*m^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 45936*A*a^2*b*c^3*m^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 35361*B*a^2*b*c^3*m^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 35361*A*a*b^2*c^3*m^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 28008*B*a*b^2*c^3*m^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 9336*A*b^3*c^3*m^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 7635*B*b^3*c^3*m^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 45936*A*a^3*c^2*d*m^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 35361*B*a^3*c^2*d*m^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10608*3*A*a^2*b*c^2*d*m^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 84024*B*a^2*b*c^2*d*m^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 84024*A*a*b^2*c^2*d*m^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 68715*B*a*b^2*c^2*d*m^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + m*\log(x)) + 22905*A*b^3*c^2*d*m^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 19296*B*b^3*c^2*d*m^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 35361*A*a^3*c*d^2*m^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 28008*B*a^3*c*d^2*m^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 84024*A*a^2*b*c*d^2*m^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 68715*B*a^2*b*c*d^2*m^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 68715*A*a*b^2*c*d^2*m^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 57888*B*a*b^2*c*d^2*m^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 19296*A*b^3*c*d^2*m^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 16641*B*b^3*c*d^2*m^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 9336*A*a^3*d^3*m^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 7635*B*a^3*d^3*m^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 22905*A*a^2*b*d^3*m^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 19296*B*a^2*b*d^3*m^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 19296*A*a*b^2*d^3*m^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 16641*B*a*b^2*d^3*m^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5547*A*b^3*d^3*m^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 4872*B*b^3*d^3*m^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 16056*B*a^3*c^3*m*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 48168*A*a^2*b*c^3*m*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 31644*B*a^2*b*c^3*m*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 31644*A*a*b^2*c^3*m*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 22776*B*a*b^2*c^3*m*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 7592*A*b^3*c^3*m*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5904*B*b^3*c^3*m*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 48168*A*a^3*c^2*d*m*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 31644*B*a^3*c^2*d*m*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 94932*A*a^2*b*c^2*d*m*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 68328*B*a^2*b*c^2*d*m*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + m*\log(x)) + 68328*A*a*b^2*c^2*d*m*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 53136*B*a*b^2*c^2*d*m*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 17712*A*b^3*c^2*d*m*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 14472*B*b^3*c^2*d*m*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + m*\log(x)) + 31644*A*a^3*c*d^2*m*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 22776*B*a^3*c*d^2*m*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 68328*A*a^2*b*c*d^2*m*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 53136*B*a^2*b*c*d^2*m*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 53136*A*a*b^2*c*d^2*m*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 43416*B*a*b^2*c*d^2*m*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 14472*A*b^3*c*d^2*m*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 12228*B*b^3*c*d^2*m*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + m*\log(x)) + 7592*A*a^3*d^3*m*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} +$

$5904*B*a^3*d^3*m^n^5*x*x^n*e^{(m*log(e) + m*log(x))} + 17712*A*a^2*b*d^3*m^n^5*x*x^n*e^{(m*log(e) + m*log(x))} + 14472*B*a^2*b*d^3*m^n^5*x*x^n*e^{(m*log(e) + m*log(x))} + 14472*A*a*b^2*d^3*m^n^5*x*x^n*e^{(m*log(e) + m*log(x))} + 12228*B*a*b^2*d^3*m^n^5*x*x^n*e^{(m*log(e) + m*log(x))} + 4076*A*b^3*d^3*m^n^5*x*x^n*e^{(m*log(e) + m*log(x))} + 3528*B*b^3*d^3*m^n^5*x*x^n*e^{(m*log(e) + m*log(x))} + 5040*B*a^3*c^3*n^6*x*x^n*e^{(m*log(e) + m*log(x))} + 15120*A*a^2*b*c^3*n^6*x*x^n*e^{(m*log(e) + m*log(x))} + 7560*B*a^2*b*c^3*n^6*x*x^n*e^{(m*log(e) + m*log(x))} + 7560*A*a*b^2*c^3*n^6*x*x^n*e^{(m*log(e) + m*log(x))} + 5040*B*a*b^2*c^3*n^6*x*x^n*e^{(m*log(e) + m*log(x))} + 1680*A*b^3*c^3*n^6*x*x^n*e^{(m*log(e) + m*log(x))} + 1260*B*b^3*c^3*n^6*x*x^n*e^{(m*log(e) + m*log(x))} + 15120*A*a^3*c^2*d*n^6*x*x^n*e^{(m*log(e) + m*log(x))} + 7560*B*a^3*c^2*d*n^6*x*x^n*e^{(m*log(e) + m*log(x))} + 22680*A*a^2*b*c^2*d*n^6*x*x^n*e^{(m*log(e) + m*log(x))} + 15120*B*a^2*b*c^2*d*n^6*x*x^n*e^{(m*log(e) + m*log(x))} + 15120*A*a*b^2*c^2*d*n^6*x*x^n*e^{(m*log(e) + m*log(x))} + 11340*B*a*b^2*c^2*d*n^6*x*x^n*e^{(m*log(e) + m*log(x))} + 3780*A*b^3*c^2*d*n^6*x*x^n*e^{(m*log(e) + m*log(x))} + 3024*B*b^3*c^2*d*n^6*x*x^n*e^{(m*log(e) + m*log(x))} + 7560*A*a^3*c*d^2*n^6*x*x^n*e^{(m*log(e) + m*log(x))} + 5040*B*a^3*c*d^2*n^6*x*x^n*e^{(m*log(e) + m*log(x))} + 15120*A*a^2*b*c*d^2*n^6*x*x^n*e^{(m*log(e) + m*log(x))} + 11340*B*a^2*b*c*d^2*n^6*x*x^n*e^{(m*log(e) + m*log(x))} + 11340*A*a*b^2*c*d^2*n^6*x*x^n*e^{(m*log(e) + m*log(x))} + 9072*B*a*b^2*c*d^2*n^6*x*x^n*e^{(m*log(e) + m*log(x))} + 3024*A*b^3*c*d^2*n^6*x*x^n*e^{(m*log(e) + m*log(x))} + 2520*B*b^3*c*d^2*n^6*x*x^n*e^{(m*log(e) + m*log(x))} + 1680*A*a^3*d^3*n^6*x*x^n*e^{(m*log(e) + m*log(x))} + 1260*B*a^3*d^3*n^6*x*x^n*e^{(m*log(e) + m*log(x))} + 3780*A*a^2*b*d^3*n^6*x*x^n*e^{(m*log(e) + m*log(x))} + 3024*B*a^2*b*d^3*n^6*x*x^n*e^{(m*log(e) + m*log(x))} + 3024*A*a*b^2*d^3*n^6*x*x^n*e^{(m*log(e) + m*log(x))} + 2520*B*a*b^2*d^3*n^6*x*x^n*e^{(m*log(e) + m*log(x))} + 840*A*b^3*d^3*n^6*x*x^n*e^{(m*log(e) + m*log(x))} + 720*B*b^3*d^3*n^6*x*x^n*e^{(m*log(e) + m*log(x))} + 7*A*a^3*c^3*m^6*x*e^{(m*log(e) + m*log(x))} + 7*B*a^3*c^3*m^6*x*e^{(m*log(e) + m*log(x))} + 21*A*a^2*b*c^3*m^6*x*e^{(m*log(e) + m*log(x))} + 21*B*a^2*b*c^3*m^6*x*e^{(m*log(e) + m*log(x))} + 21*A*a*b^2*c^3*m^6*x*e^{(m*log(e) + m*log(x))} + 21*B*a*b^2*c^3*m^6*x*e^{(m*log(e) + m*log(x))} + 7*A*b^3*c^3*m^6*x*e^{(m*log(e) + m*log(x))} + 7*B*b^3*c^3*m^6*x*e^{(m*log(e) + m*log(x))} + 21*A*a^3*c^2*d*m^6*x*e^{(m*log(e) + m*log(x))} + 21*B*a^3*c^2*d*m^6*x*e^{(m*log(e) + m*log(x))} + 63*A*a^2*b*c^2*d*m^6*x*e^{(m*log(e) + m*log(x))} + 63*B*a^2*b*c^2*d*m^6*x*e^{(m*log(e) + m*log(x))} + 63*A*a*b^2*c^2*d*m^6*x*e^{(m*log(e) + m*log(x))} + 63*B*a*b^2*c^2*d*m^6*x*e^{(m*log(e) + m*log(x))} + 21*A*b^3*c^2*d*m^6*x*e^{(m*log(e) + m*log(x))} + 21*B*b^3*c^2*d*m^6*x*e^{(m*log(e) + m*log(x))} + 21*A*a^3*c*d^2*m^6*x*e^{(m*log(e) + m*log(x))} + 21*B*a^3*c*d^2*m^6*x*e^{(m*log(e) + m*log(x))} + 63*A*a^2*b*c*d^2*m^6*x*e^{(m*log(e) + m*log(x))} + 63*B*a^2*b*c*d^2*m^6*x*e^{(m*log(e) + m*log(x))} + 63*A*a*b^2*c*d^2*m^6*x*e^{(m*log(e) + m*log(x))} + 63*B*a*b^2*c*d^2*m^6*x*e^{(m*log(e) + m*log(x))} + 21*A*b^3*c*d^2*m^6*x*e^{(m*log(e) + m*log(x))} + 21*B*b^3*c*d^2*m^6*x*e^{(m*log(e) + m*log(x))} + 7*A*a^3*d^3*m^6*x*e^{(m*log(e) + m*log(x))} + 7*B*a^3*d^3*m^6*x*e^{(m*log(e) + m*log(x))} + 21*A*a^2*b*d^3*m^6*x*e^{(m*log(e) + m*log(x))} + 21*B*a^2*b*d^3*m^6*x*e^{(m*log(e) + m*log(x))} + 21*A*a*b^2*d^3*m^6*x*e^{(m*log(e) + m*log(x))} + 21*B*a*b^2*d^3*m^6*x*e^{(m*log(e) + m*log(x))} + 21*A*a*b^2*d^3*m^6*x*e^{(m*log(e) + m*log(x))}$

$d^3m^4n^2xe^{(m\log(e) + m\log(x))} + 875Bb^3d^3m^4n^2xe^{(m\log(e) + m\log(x))} + 7840Aa^3c^3m^3n^3xe^{(m\log(e) + m\log(x))} + 6660Ba^3c^3m^3n^3xe^{(m\log(e) + m\log(x))} + 19980Aa^2b^3c^3m^3n^3xe^{(m\log(e) + m\log(x))} + 17040Bba^2b^3c^3m^3n^3xe^{(m\log(e) + m\log(x))} + 17040Aab^2c^3m^3n^3xe^{(m\log(e) + m\log(x))} + 14628Bba^2c^3m^3n^3xe^{(m\log(e) + m\log(x))} + 4876Ab^3c^3m^3n^3xe^{(m\log(e) + m\log(x))} + 4224Bb^3c^3m^3n^3xe^{(m\log(e) + m\log(x))} + 19980Aa^3c^2dm^3n^3xe^{(m\log(e) + m\log(x))} + 17040Bba^3c^2dm^3n^3xe^{(m\log(e) + m\log(x))} + 51120Aa^2b^3c^2dm^3n^3xe^{(m\log(e) + m\log(x))} + 43884Ba^2b^3c^2dm^3n^3xe^{(m\log(e) + m\log(x))} + 43884Aab^2c^2dm^3n^3xe^{(m\log(e) + m\log(x))} + 38016Bba^2c^2dm^3n^3xe^{(m\log(e) + m\log(x))} + 12672Ab^3c^2dm^3n^3xe^{(m\log(e) + m\log(x))} + 11100Bb^3c^2dm^3n^3xe^{(m\log(e) + m\log(x))} + 17040Aa^3cd^2m^3n^3xe^{(m\log(e) + m\log(x))} + 14628Bba^3cd^2m^3n^3xe^{(m\log(e) + m\log(x))} + 43884Aa^2bcd^2m^3n^3xe^{(m\log(e) + m\log(x))} + 38016Bba^2bcd^2m^3n^3xe^{(m\log(e) + m\log(x))} + 38016Aab^2cd^2m^3n^3xe^{(m\log(e) + m\log(x))} + 33300Bba^2cd^2m^3n^3xe^{(m\log(e) + m\log(x))} + 11100Ab^3cd^2m^3n^3xe^{(m\log(e) + m\log(x))} + 9840Bb^3cd^2m^3n^3xe^{(m\log(e) + m\log(x))} + 4876Aa^3d^3m^3n^3xe^{(m\log(e) + m\log(x))} + 4224Bba^3d^3m^3n^3xe^{(m\log(e) + m\log(x))} + 12672Aa^2bd^3m^3n^3xe^{(m\log(e) + m\log(x))} + 11100Bba^2bd^3m^3n^3xe^{(m\log(e) + m\log(x))} + 11100Aab^2d^3m^3n^3xe^{(m\log(e) + m\log(x))} + 9840Bba^2bd^3m^3n^3xe^{(m\log(e) + m\log(x))} + 3280Ab^3d^3m^3n^3xe^{(m\log(e) + m\log(x))} + 2940Bb^3d^3m^3n^3xe^{(m\log(e) + m\log(x))} + 20307Aa^3c^3m^2n^4xe^{(m\log(e) + m\log(x))} + 15312Bba^3c^3m^2n^4xe^{(m\log(e) + m\log(x))} + 45936Aa^2b^3c^3m^2n^4xe^{(m\log(e) + m\log(x))} + 35361Ba^2b^3c^3m^2n^4xe^{(m\log(e) + m\log(x))} + 28008Bba^2b^3c^3m^2n^4xe^{(m\log(e) + m\log(x))} + 9336Ab^3c^3m^2n^4xe^{(m\log(e) + m\log(x))} + 7635Bb^3c^3m^2n^4xe^{(m\log(e) + m\log(x))} + 45936Aa^3c^2dm^2n^4xe^{(m\log(e) + m\log(x))} + 35361Bba^3c^2dm^2n^4xe^{(m\log(e) + m\log(x))} + 106083Aa^2b^3c^2dm^2n^4xe^{(m\log(e) + m\log(x))} + 84024Ba^2b^3c^2dm^2n^4xe^{(m\log(e) + m\log(x))} + 84024Aab^2c^2dm^2n^4xe^{(m\log(e) + m\log(x))} + 68715Bba^2b^3c^2dm^2n^4xe^{(m\log(e) + m\log(x))} + 22905Ab^3c^2dm^2n^4xe^{(m\log(e) + m\log(x))} + 19296Bb^3c^2dm^2n^4xe^{(m\log(e) + m\log(x))} + 35361Aa^3cd^2m^2n^4xe^{(m\log(e) + m\log(x))} + 28008Bba^3cd^2m^2n^4xe^{(m\log(e) + m\log(x))} + 84024Aa^2bcd^2m^2n^4xe^{(m\log(e) + m\log(x))} + 68715Bba^2bcd^2m^2n^4xe^{(m\log(e) + m\log(x))} + 68715Aab^2cd^2m^2n^4xe^{(m\log(e) + m\log(x))} + 57888Bba^2bcd^2m^2n^4xe^{(m\log(e) + m\log(x))} + 19296Ab^3cd^2m^2n^4xe^{(m\log(e) + m\log(x))} + 16641Bb^3cd^2m^2n^4xe^{(m\log(e) + m\log(x))} + 9336Aa^3d^3m^2n^4xe^{(m\log(e) + m\log(x))} + 7635Bba^3d^3m^2n^4xe^{(m\log(e) + m\log(x))} + 22905Aa^2bd^3m^2n^4xe^{(m\log(e) + m\log(x))} + 19296Bba^2bd^3m^2n^4xe^{(m\log(e) + m\log(x))} + 19296Aab^2d^3m^2n^4xe^{(m\log(e) + m\log(x))} +$

$16641*B*a*b^2*d^3*m^2*n^4*x*e^{(m*\log(e) + m*\log(x))} + 5547*A*b^3*d^3*m^2*n^4*x*e^{(m*\log(e) + m*\log(x))} + 4872*B*b^3*d^3*m^2*n^4*x*e^{(m*\log(e) + m*\log(x))} + 26264*A*a^3*c^3*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 16056*B*a^3*c^3*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 48168*A*a^2*b*c^3*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 31644*B*a^2*b*c^3*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 31644*A*a*b^2*c^3*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 22776*B*a*b^2*c^3*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 7592*A*b^3*c^3*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 5904*B*b^3*c^3*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 48168*A*a^3*c^2*d*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 31644*B*a^3*c^2*d*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 94932*A*a^2*b*c^2*d*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 68328*B*a^2*b*c^2*d*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 68328*A*a*b^2*c^2*d*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 53136*B*a*b^2*c^2*d*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 17712*A*b^3*c^2*d*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 14472*B*b^3*c^2*d*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 31644*A*a^3*c*d^2*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 22776*B*a^3*c*d^2*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 68328*A*a^2*b*c*d^2*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 53136*B*a^2*b*c*d^2*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 53136*A*a*b^2*c*d^2*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 43416*B*a*b^2*c*d^2*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 14472*A*b^3*c*d^2*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 12228*B*b^3*c*d^2*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 7592*A*a^3*d^3*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 5904*B*a^3*d^3*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 17712*A*a^2*b*d^3*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 14472*B*a^2*b*d^3*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 14472*A*a*b^2*d^3*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 12228*B*a*b^2*d^3*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 4076*A*b^3*d^3*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 3528*B*b^3*d^3*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 13068*A*a^3*c^3*n^6*x*e^{(m*\log(e) + m*\log(x))} + 5040*B*a^3*c^3*n^6*x*e^{(m*\log(e) + m*\log(x))} + 15120*A*a^2*b*c^3*n^6*x*e^{(m*\log(e) + m*\log(x))} + 7560*B*a^2*b*c^3*n^6*x*e^{(m*\log(e) + m*\log(x))} + 5040*B*a*b^2*c^3*n^6*x*e^{(m*\log(e) + m*\log(x))} + 1680*A*b^3*c^3*n^6*x*e^{(m*\log(e) + m*\log(x))} + 1260*B*b^3*c^3*n^6*x*e^{(m*\log(e) + m*\log(x))} + 15120*A*a^3*c^2*d*n^6*x*e^{(m*\log(e) + m*\log(x))} + 7560*B*a^3*c^2*d*n^6*x*e^{(m*\log(e) + m*\log(x))} + 22680*A*a^2*b*c^2*d*n^6*x*e^{(m*\log(e) + m*\log(x))} + 15120*B*a^2*b*c^2*d*n^6*x*e^{(m*\log(e) + m*\log(x))} + 15120*A*a*b^2*c^2*d*n^6*x*e^{(m*\log(e) + m*\log(x))} + 11340*B*a*b^2*c^2*d*n^6*x*e^{(m*\log(e) + m*\log(x))} + 3780*A*b^3*c^2*d*n^6*x*e^{(m*\log(e) + m*\log(x))} + 3024*B*b^3*c^2*d*n^6*x*e^{(m*\log(e) + m*\log(x))} + 7560*A*a^3*c*d^2*n^6*x*e^{(m*\log(e) + m*\log(x))} + 5040*B*a^3*c*d^2*n^6*x*e^{(m*\log(e) + m*\log(x))} + 15120*A*a^2*b*c*d^2*n^6*x*e^{(m*\log(e) + m*\log(x))} + 11340*B*a^2*b*c*d^2*n^6*x*e^{(m*\log(e) + m*\log(x))} + 11340*A*a*b^2*c*d^2*n^6*x*e^{(m*\log(e) + m*\log(x))} + 9072*B*a*b^2*c*d^2*n^6*x*e^{(m*\log(e) + m*\log(x))} + 3024*A*b^3*c*d^2*n^6*x*e^{(m*\log(e) + m*\log(x))} + 2520*B*b^3*c*d^2*n^6*x*e^{(m*\log(e) + m*\log(x))} + 1680*A*a^3*d^3*n^6*x*e^{(m*\log(e) + m*\log(x))} + 1260*B*a^3*d^3*n^6*x*e^{(m*\log(e) + m*\log(x))} + 3780*A*a^2*b*d^3*n^6*x*e^{(m*\log(e) + m*\log(x))} + 3024*B*a^2*b*d^3*n^6*x*e^{(m*\log(e) + m*\log(x))} + 3024*A*a*b^2*d^3*n^6*x*e^{(m*\log(e) + m*\log(x))} + 2520*B*a*b^2*d^3*n^6*x*e^{(m*\log(e) + m*\log(x))} + 840*A*b^3*d^3*n^6*x*e^{(m*\log(e) + m*\log(x))} + 720*B*b^3*d^3*n^6*x*e^{(m*\log(e) + m*\log(x))}$

$+ m \log(x)) + 21 * B * b^3 * d^3 * m^5 * x^x^{(7 * n)} * e^{(m \log(e) + m \log(x))} + 315 * B * b^3 * d^3 * m^4 * n * x^x^{(7 * n)} * e^{(m \log(e) + m \log(x))} + 1750 * B * b^3 * d^3 * m^3 * n^2 * x^x^{(7 * n)} * e^{(m \log(e) + m \log(x))} + 4410 * B * b^3 * d^3 * m^2 * n^3 * x^x^{(7 * n)} * e^{(m \log(e) + m \log(x))} + 4872 * B * b^3 * d^3 * m * n^4 * x^x^{(7 * n)} * e^{(m \log(e) + m \log(x))} + 1764 * B * b^3 * d^3 * n^5 * x^x^{(7 * n)} * e^{(m \log(e) + m \log(x))} + 63 * B * b^3 * c * d^2 * m^5 * x^x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 63 * B * a * b^2 * d^3 * m^5 * x^x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 21 * A * b^3 * d^3 * m^5 * x^x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 21 * B * b^3 * d^3 * m^5 * x^x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 990 * B * b^3 * c * d^2 * m^4 * n * x^x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 990 * B * a * b^2 * d^3 * m^4 * n * x^x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 330 * A * b^3 * d^3 * m^4 * n * x^x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 315 * B * b^3 * d^3 * m^4 * n * x^x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 5700 * B * b^3 * c * d^2 * m^3 * n^2 * x^x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 5700 * B * a * b^2 * d^3 * m^3 * n^2 * x^x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 1900 * A * b^3 * d^3 * m^3 * n^2 * x^x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 1750 * B * b^3 * d^3 * m^3 * n^2 * x^x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 14760 * B * b^3 * c * d^2 * m^2 * n^3 * x^x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 14760 * B * a * b^2 * d^3 * m^2 * n^3 * x^x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 4920 * A * b^3 * d^3 * m^2 * n^3 * x^x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 4410 * B * b^3 * d^3 * m^2 * n^3 * x^x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 16641 * B * b^3 * c * d^2 * m * n^4 * x^x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 16641 * B * a * b^2 * d^3 * m * n^4 * x^x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 5547 * A * b^3 * d^3 * m * n^4 * x^x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 4872 * B * b^3 * d^3 * m * n^4 * x^x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 6114 * B * b^3 * c * d^2 * n^5 * x^x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 6114 * B * a * b^2 * d^3 * n^5 * x^x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 2038 * A * b^3 * d^3 * n^5 * x^x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 1764 * B * b^3 * d^3 * n^5 * x^x^{(6 * n)} * e^{(m \log(e) + m \log(x))} + 63 * B * b^3 * c^2 * d * m^5 * x^x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 189 * B * a * b^2 * c * d^2 * m^5 * x^x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 63 * A * b^3 * c * d^2 * m^5 * x^x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 63 * B * b^3 * c * d^2 * m^5 * x^x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 63 * B * a * b^2 * d^3 * m^5 * x^x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 63 * A * a * b^2 * d^3 * m^5 * x^x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 21 * A * b^3 * d^3 * m^5 * x^x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 21 * B * b^3 * d^3 * m^5 * x^x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 1035 * B * b^3 * c^2 * d * m^4 * n * x^x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 3105 * B * a * b^2 * c * d^2 * m^4 * n * x^x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 1035 * A * b^3 * c * d^2 * m^4 * n * x^x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 990 * B * b^3 * c * d^2 * m^4 * n * x^x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 1035 * B * a^2 * b * d^3 * m^4 * n * x^x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 1035 * A * a * b^2 * d^3 * m^4 * n * x^x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 990 * B * a * b^2 * d^3 * m^4 * n * x^x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 330 * A * b^3 * d^3 * m^4 * n * x^x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 315 * B * b^3 * d^3 * m^4 * n * x^x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 6210 * B * b^3 * c^2 * d * m^3 * n^2 * x^x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 18630 * B * a * b^2 * c * d^2 * m^3 * n^2 * x^x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 6210 * A * b^3 * c * d^2 * m^3 * n^2 * x^x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 5700 * B * b^3 * c * d^2 * m^3 * n^2 * x^x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 6210 * B * a^2 * b * d^3 * m^3 * n^2 * x^x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 6210 * A * a * b^2 * d^3 * m^3 * n^2 * x^x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 5700 * B * a * b^2 * d^3 * m^3 * n^2 * x^x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 1900 * A * b^3 * d^3 * m^3 * n^2 * x^x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 1750 * B * b^3 * d^3 * m^3 * n^2 * x^x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 16650 * B * b^3 * c^2 * d * m^2 * n^3 * x^x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 49950 * B *$

$a*b^2*c*d^2*m^2*n^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 16650*A*b^3*c*d^2*m^2*n^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 14760*B*b^3*c*d^2*m^2*n^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 16650*B*a^2*b*d^3*m^2*n^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 16650*A*a*b^2*d^3*m^2*n^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 14760*B*a*b^2*d^3*m^2*n^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 4920*A*b^3*d^3*m^2*n^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 4410*B*b^3*d^3*m^2*n^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 19296*B*b^3*c^2*d*m*n^4*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 57888*B*a*b^2*c*d^2*m*n^4*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 19296*A*b^3*c*d^2*m*n^4*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 16641*B*b^3*c*d^2*m*n^4*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 19296*B*a^2*b*d^3*m*n^4*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 19296*A*a*b^2*d^3*m*n^4*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 16641*B*a*b^2*d^3*m*n^4*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 5547*A*b^3*d^3*m*n^4*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 4872*B*b^3*d^3*m*n^4*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 7236*B*b^3*c^2*d*n^5*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 21708*B*a*b^2*c*d^2*n^5*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 7236*A*b^3*c*d^2*n^5*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 6114*B*b^3*c*d^2*n^5*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 7236*B*a^2*b*d^3*n^5*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 7236*A*a*b^2*d^3*n^5*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 6114*B*a*b^2*d^3*n^5*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 2038*A*b^3*d^3*n^5*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 1764*B*b^3*d^3*n^5*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 21*B*b^3*c^3*m^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 189*B*a*b^2*c^2*d*m^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 63*A*b^3*c^2*d*m^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 63*B*b^3*c^2*d*m^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 189*B*a^2*b*c*d^2*m^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 189*A*a*b^2*c*d^2*m^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 189*B*a*b^2*c*d^2*m^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 63*A*b^3*c*d^2*m^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 63*B*b^3*c*d^2*m^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 21*B*a^3*d^3*m^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 63*A*a^2*b*d^3*m^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 63*B*a^2*b*d^3*m^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 63*A*a*b^2*d^3*m^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 63*B*a^3*d^3*m^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 63*A*a^2*b*d^3*m^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 63*B*a^2*b*d^3*m^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 63*A*a*b^2*d^3*m^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 21*B*b^3*d^3*m^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 360*B*b^3*c^3*m^4*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3240*B*a*b^2*c^2*d*m^4*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 1080*A*b^3*c^2*d*m^4*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 1035*B*b^3*c^2*d*m^4*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3240*B*a^2*b*c*d^2*m^4*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3240*A*a*b^2*c*d^2*m^4*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3105*B*a*b^2*c*d^2*m^4*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 1035*A*b^3*c*d^2*m^4*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 990*B*b^3*c*d^2*m^4*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 360*B*a^3*d^3*m^4*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 1080*A*a^2*b*d^3*m^4*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 1035*B*a^2*b*d^3*m^4*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 1035*A*a*b^2*d^3*m^4*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 990*B*a*b^2*d^3*m^4*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 330*A*b^3*d^3*m^4*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 315*B*b^3*d^3*m^4*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 2260*B*b^3*c^3*m^3*n^$

$2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 20340*B*a*b^2*c^2*d*m^3*n^2*x*x^{(4*n)}$
 $*e^{(m*\log(e) + m*\log(x))} + 6780*A*b^3*c^2*d*m^3*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} +$
 $6210*B*b^3*c^2*d*m^3*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 2$
 $0340*B*a^2*b*c*d^2*m^3*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 20340*A*a*b^2$
 $*c*d^2*m^3*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 18630*B*a*b^2*c*d^2*m^3$
 $*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 6210*A*b^3*c*d^2*m^3*n^2*x*x^{(4*n)}$
 $*e^{(m*\log(e) + m*\log(x))} + 5700*B*b^3*c*d^2*m^3*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} +$
 $2260*B*a^3*d^3*m^3*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 678$
 $0*A*a^2*b*d^3*m^3*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 6210*B*a^2*b*d^3*$
 $m^3*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 6210*A*a*b^2*d^3*m^3*n^2*x*x^{(4$
 $*n)}*e^{(m*\log(e) + m*\log(x))} + 5700*B*a*b^2*d^3*m^3*n^2*x*x^{(4*n)}*e^{(m*\log(e$
 $) + m*\log(x))} + 1900*A*b^3*d^3*m^3*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} +$
 $1750*B*b^3*d^3*m^3*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 6336*B*b^3*c^3*m$
 $^2*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 57024*B*a*b^2*c^2*d*m^2*n^3*x*x^{(4*n)}$
 $*e^{(m*\log(e) + m*\log(x))} + 19008*A*b^3*c^2*d*m^2*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} +$
 $16650*B*b^3*c^2*d*m^2*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 57024*B*a^2*b*c*d^2*m^2*n^3*x*x^{(4*n)}$
 $*e^{(m*\log(e) + m*\log(x))} + 57024*A*a*b^2*c*d^2*m^2*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} +$
 $49950*B*a*b^2*c*d^2*m^2*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 16650*A*b^3*c*d^2*m^2*n^3*x$
 $*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 14760*B*b^3*c*d^2*m^2*n^3*x*x^{(4*n)}*e^{(m$
 $*\log(e) + m*\log(x))} + 6336*B*a^3*d^3*m^2*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} +$
 $19008*A*a^2*b*d^3*m^2*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 16650*B$
 $*a^2*b*d^3*m^2*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 16650*A*a*b^2*d^3*m^2$
 $n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 14760*B*a*b^2*d^3*m^2*n^3*x*x^{(4*$
 $n)}*e^{(m*\log(e) + m*\log(x))} + 4920*A*b^3*d^3*m^2*n^3*x*x^{(4*n)}*e^{(m*\log(e) +$
 $m*\log(x))} + 4410*B*b^3*d^3*m^2*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 763$
 $5*B*b^3*c^3*m*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 68715*B*a*b^2*c^2*d*m$
 $*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 22905*A*b^3*c^2*d*m*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m$
 $*\log(x))} + 19296*B*b^3*c^2*d*m*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m$
 $*\log(x))} + 68715*B*a^2*b*c*d^2*m*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 68$
 $715*A*a*b^2*c*d^2*m*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 57888*B*a*b^2*c$
 $*d^2*m*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 19296*A*b^3*c*d^2*m*n^4*x*x^{(4$
 $*n)}*e^{(m*\log(e) + m*\log(x))} + 16641*B*b^3*c*d^2*m*n^4*x*x^{(4*n)}*e^{(m*\log(e$
 $) + m*\log(x))} + 7635*B*a^3*d^3*m*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 2$
 $2905*A*a^2*b*d^3*m*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 19296*B*a^2*b*d^3$
 $m*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 19296*A*a*b^2*d^3*m*n^4*x*x^{(4*$
 $n)}*e^{(m*\log(e) + m*\log(x))} + 16641*B*a*b^2*d^3*m*n^4*x*x^{(4*n)}*e^{(m*\log(e$
 $+ m*\log(x))} + 5547*A*b^3*d^3*m*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 4872$
 $*B*b^3*d^3*m*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 2952*B*b^3*c^3*n^5*x*x$
 $^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 26568*B*a*b^2*c^2*d*n^5*x*x^{(4*n)}*e^{(m*\log$
 $(e) + m*\log(x))} + 8856*A*b^3*c^2*d*n^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} +$
 $7236*B*b^3*c^2*d*n^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 26568*B*a^2*b*c*d^2$
 $n^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 26568*A*a*b^2*c*d^2*n^5*x*x^{(4*n)}$
 $*e^{(m*\log(e) + m*\log(x))} + 21708*B*a*b^2*c*d^2*n^5*x*x^{(4*n)}*e^{(m*\log(e) +$
 $m*\log(x))} + 7236*A*b^3*c*d^2*n^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 6114*B$

$*b^3*c*d^2*n^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 2952*B*a^3*d^3*n^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 8856*A*a^2*b*d^3*n^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 7236*B*a^2*b*d^3*n^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 7236*A*a*b^2*d^3*n^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 6114*B*a*b^2*d^3*n^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 2038*A*b^3*d^3*n^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 1764*B*b^3*d^3*n^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 63*B*a*b^2*c^3*m^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 21*A*b^3*c^3*m^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 21*B*b^3*c^3*m^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 189*B*a^2*b*c^2*d*m^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 189*A*a*b^2*c^2*d*m^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 189*B*a*b^2*c^2*d*m^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 63*A*b^3*c^2*d*m^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 63*B*b^3*c^2*d*m^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 63*B*a^3*c*d^2*m^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 189*A*a^2*b*c*d^2*m^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 189*B*a^2*b*c*d^2*m^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 189*A*a*b^2*c*d^2*m^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 189*B*a*b^2*c*d^2*m^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 63*A*b^3*c*d^2*m^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 63*B*b^3*c*d^2*m^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 21*A*a^3*d^3*m^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 21*B*a^3*d^3*m^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 63*A*a^2*b*d^3*m^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 63*B*a^2*b*d^3*m^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 63*A*a*b^2*d^3*m^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 63*B*a*b^2*d^3*m^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 21*A*b^3*d^3*m^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 21*B*b^3*d^3*m^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1125*B*a*b^2*c^3*m^4*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 375*A*b^3*c^3*m^4*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 360*B*b^3*c^3*m^4*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3375*B*a^2*b*c^2*d*m^4*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3375*A*a*b^2*c^2*d*m^4*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3240*B*a*b^2*c^2*d*m^4*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1080*A*b^3*c^2*d*m^4*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1035*B*b^3*c^2*d*m^4*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1125*B*a^3*c*d^2*m^4*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3375*A*a^2*b*c*d^2*m^4*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3240*B*a^2*b*c*d^2*m^4*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3240*A*a*b^2*c*d^2*m^4*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3105*B*a*b^2*c*d^2*m^4*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1035*A*b^3*c*d^2*m^4*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 990*B*b^3*c*d^2*m^4*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 375*A*a^3*d^3*m^4*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 360*B*a^3*d^3*m^4*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1080*A*a^2*b*d^3*m^4*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1035*B*a^2*b*d^3*m^4*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1035*A*a*b^2*d^3*m^4*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 990*B*a*b^2*d^3*m^4*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 330*A*b^3*d^3*m^4*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 315*B*b^3*d^3*m^4*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 7410*B*a*b^2*c^3*m^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 2470*A*b^3*c^3*m^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 2260*B*b^3*c^3*m^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 22230*B*a^2*b*c^2*d*m^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 22230*A*a*b^2*c^2*d*m^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} +$

$20340*B*a*b^2*c^2*d*m^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 6780*A*b^3*c^2*d*m^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 6210*B*b^3*c^2*d*m^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 7410*B*a^3*c*d^2*m^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 22230*A*a^2*b*c*d^2*m^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 20340*B*a^2*b*c*d^2*m^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 20340*A*a*b^2*c*d^2*m^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 18630*B*a*b^2*c*d^2*m^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 6210*A*b^3*c*d^2*m^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 5700*B*b^3*c*d^2*m^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 2470*A*a^3*d^3*m^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 2260*B*a^3*d^3*m^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 6780*A*a^2*b*d^3*m^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 6210*B*a^2*b*d^3*m^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 6210*A*a*b^2*d^3*m^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 5700*B*a*b^2*d^3*m^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1900*A*b^3*d^3*m^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1750*B*b^3*d^3*m^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 21942*B*a*b^2*c^3*m^2*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 7314*A*b^3*c^3*m^2*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 6336*B*b^3*c^3*m^2*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 65826*B*a^2*b*c^2*d*m^2*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 65826*A*a*b^2*c^2*d*m^2*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 57024*B*a*b^2*c^2*d*m^2*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 19008*A*b^3*c^2*d*m^2*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 16650*B*b^3*c^2*d*m^2*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 21942*B*a^3*c*d^2*m^2*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 65826*A*a^2*b*c*d^2*m^2*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 57024*B*a^2*b*c*d^2*m^2*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 57024*A*a*b^2*c*d^2*m^2*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 49950*B*a*b^2*c*d^2*m^2*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 16650*A*b^3*c*d^2*m^2*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 14760*B*b^3*c*d^2*m^2*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 7314*A*a^3*d^3*m^2*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 6336*B*a^3*d^3*m^2*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 19008*A*a^2*b*d^3*m^2*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 16650*B*a^2*b*d^3*m^2*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 16650*A*a*b^2*d^3*m^2*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 14760*B*a*b^2*d^3*m^2*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 4920*A*b^3*d^3*m^2*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 4410*B*b^3*d^3*m^2*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 28008*B*a*b^2*c^3*m^n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 9336*A*b^3*c^3*m^n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 7635*B*b^3*c^3*m^n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 84024*B*a^2*b*c^2*d*m^n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 84024*A*a*b^2*c^2*d*m^n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 68715*B*a*b^2*c^2*d*m^n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 22905*A*b^3*c^2*d*m^n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 19296*B*b^3*c^2*d*m^n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 28008*B*a^3*c*d^2*m^n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 84024*A*a^2*b*c*d^2*m^n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 68715*B*a^2*b*c*d^2*m^n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 68715*A*a*b^2*c*d^2*m^n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 57888*B*a*b^2*c*d^2*m^n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 19296*A*b^3*c*d^2*m^n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} +$

$16641*B*b^3*c*d^2*m*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 9336*A*a^3*d^3$
 $*m*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 7635*B*a^3*d^3*m*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 22905*A*a^2*b*d^3*m*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 19296*B*a^2*b*d^3*m*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 19296$
 $*A*a*b^2*d^3*m*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 16641*B*a*b^2*d^3*m$
 $n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 5547*A*b^3*d^3*m*n^4*x*x^{(3*n)}*e^{(m$
 $*\log(e) + m*\log(x))} + 4872*B*b^3*d^3*m*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))}$
 $) + 11388*B*a*b^2*c^3*n^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3796*A*b^3*c^$
 $3*n^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 2952*B*b^3*c^3*n^5*x*x^{(3*n)}*e^{(m$
 $*\log(e) + m*\log(x))} + 34164*B*a^2*b*c^2*d*n^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log$
 $(x))} + 34164*A*a*b^2*c^2*d*n^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 26568*B*$
 $a*b^2*c^2*d*n^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 8856*A*b^3*c^2*d*n^5*x*$
 $x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 7236*B*b^3*c^2*d*n^5*x*x^{(3*n)}*e^{(m*\log(e$
 $) + m*\log(x))} + 11388*B*a^3*c*d^2*n^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3$
 $4164*A*a^2*b*c*d^2*n^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 26568*B*a^2*b*c*$
 $d^2*n^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 26568*A*a*b^2*c*d^2*n^5*x*x^{(3*$
 $n)}*e^{(m*\log(e) + m*\log(x))} + 21708*B*a*b^2*c*d^2*n^5*x*x^{(3*n)}*e^{(m*\log(e)$
 $+ m*\log(x))} + 7236*A*b^3*c*d^2*n^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 6114$
 $*B*b^3*c*d^2*n^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3796*A*a^3*d^3*n^5*x*x$
 $^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 2952*B*a^3*d^3*n^5*x*x^{(3*n)}*e^{(m*\log(e) +$
 $m*\log(x))} + 8856*A*a^2*b*d^3*n^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 7236*$
 $B*a^2*b*d^3*n^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 7236*A*a*b^2*d^3*n^5*x*$
 $x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 6114*B*a*b^2*d^3*n^5*x*x^{(3*n)}*e^{(m*\log(e$
 $) + m*\log(x))} + 2038*A*b^3*d^3*n^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1764$
 $*B*b^3*d^3*n^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 63*B*a^2*b*c^3*m^5*x*x^{($
 $2*n)}*e^{(m*\log(e) + m*\log(x))} + 63*A*a*b^2*c^3*m^5*x*x^{(2*n)}*e^{(m*\log(e) + m$
 $*\log(x))} + 63*B*a*b^2*c^3*m^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 21*A*b^3*$
 $c^3*m^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 21*B*b^3*c^3*m^5*x*x^{(2*n)}*e^{(m$
 $*\log(e) + m*\log(x))} + 63*B*a^3*c^2*d*m^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))}$
 $+ 189*A*a^2*b*c^2*d*m^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 189*B*a^2*b*c^2$
 $*d*m^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 189*A*a*b^2*c^2*d*m^5*x*x^{(2*n)}$
 $*e^{(m*\log(e) + m*\log(x))} + 189*B*a*b^2*c^2*d*m^5*x*x^{(2*n)}*e^{(m*\log(e) + m*$
 $\log(x))} + 63*A*b^3*c^2*d*m^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 63*B*b^3*c^$
 $2*d*m^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 63*A*a^3*c*d^2*m^5*x*x^{(2*n)}*e^{($
 $m*\log(e) + m*\log(x))} + 63*B*a^3*c*d^2*m^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))}$
 $) + 189*A*a^2*b*c*d^2*m^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 189*B*a^2*b*c$
 $*d^2*m^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 189*A*a*b^2*c*d^2*m^5*x*x^{(2*n)}$
 $)*e^{(m*\log(e) + m*\log(x))} + 189*B*a*b^2*c*d^2*m^5*x*x^{(2*n)}*e^{(m*\log(e) + m$
 $*\log(x))} + 63*A*b^3*c*d^2*m^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 63*B*b^3*$
 $c*d^2*m^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 21*A*a^3*d^3*m^5*x*x^{(2*n)}*e^{($
 $m*\log(e) + m*\log(x))} + 21*B*a^3*d^3*m^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))}$
 $+ 63*A*a^2*b*d^3*m^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 63*B*a^2*b*d^3*m^5$
 $*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 63*A*a*b^2*d^3*m^5*x*x^{(2*n)}*e^{(m*\log($
 $e) + m*\log(x))} + 63*B*a*b^2*d^3*m^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 21*$
 $A*b^3*d^3*m^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 21*B*b^3*d^3*m^5*x*x^{(2*n}$

$$\begin{aligned}
&)e^{(m\log(e) + m\log(x))} + 1170*B*a^2*b*c^3*m^4*n*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 1170*A*a*b^2*c^3*m^4*n*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 1125 \\
& *B*a*b^2*c^3*m^4*n*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 375*A*b^3*c^3*m^4*n*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 360*B*b^3*c^3*m^4*n*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 1170*B*a^3*c \\
& ^2*d*m^4*n*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 3510*A*a^2*b*c^2*d*m^4*n*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 3375*B*a^2*b*c^2*d*m^4*n*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 3375*A*a*b^2*c^2*d*m^4*n*x \\
& x^{(2*n)}e^{(m\log(e) + m\log(x))} + 3240*B*a*b^2*c^2*d*m^4*n*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 1080*A*b^3*c^2*d*m^4*n*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 1035*B*b^3*c^2*d*m^4*n*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 1170*A*a^3*c \\
& *d^2*m^4*n*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 1125*B*a^3*c*d^2*m^4*n*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 3375*A*a^2*b*c*d^2*m^4*n*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 3240*B*a^2*b*c*d^2*m^4*n*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} \\
& + 3240*A*a*b^2*c*d^2*m^4*n*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 3105*B*a*b^2*c*d^2*m^4*n*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 1035*A*b^3*c*d^2*m^4*n*x \\
& x^{(2*n)}e^{(m\log(e) + m\log(x))} + 990*B*b^3*c*d^2*m^4*n*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 375*A*a^3*d^3*m^4*n*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 36 \\
& 0*B*a^3*d^3*m^4*n*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 1080*A*a^2*b*d^3*m^4*n*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 1035*B*a^2*b*d^3*m^4*n*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 1035*A*a*b^2*d^3*m^4*n*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} \\
& + 990*B*a*b^2*d^3*m^4*n*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 330*A*b^3*d^3*m^4*n*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 315*B*b^3*d^3*m^4*n*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 8100*B*a^2*b*c^3*m^3*n^2*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 8100*A*a*b^2*c^3*m^3*n^2*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 74 \\
& 10*B*a*b^2*c^3*m^3*n^2*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 2470*A*b^3*c^3*m^3*n^2*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 2260*B*b^3*c^3*m^3*n^2*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 8100*B*a^3*c^2*d*m^3*n^2*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 24300*A*a^2*b*c^2*d*m^3*n^2*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 22230*B*a^2*b*c^2*d*m^3*n^2*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 22230*A*a*b^2*c^2*d*m^3*n^2*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 20340*B*a*b^2*c^2*d*m^3*n^2*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 6780*A*b^3*c^2*d*m^3*n^2*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 6210*B*b^3*c^2*d*m^3*n^2*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 8100*A*a^3*c*d^2*m^3*n^2*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 7410*B*a^3*c*d^2*m^3*n^2*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 22230*A*a^2*b*c*d^2*m^3*n^2*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 20340*B*a^2*b*c*d^2*m^3*n^2*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 20340*A*a*b^2*c*d^2*m^3*n^2*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 18630*B*a*b^2*c*d^2*m^3*n^2*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 6210*A*b^3*c*d^2*m^3*n^2*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 5700*B*b^3*c*d^2*m^3*n^2*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 2470*A*a^3*d^3*m^3*n^2*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 2260*B*a^3*d^3*m^3*n^2*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 6780*A*a^2*b*d^3*m^3*n^2*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 6210*B*a^2*b*d^3*m^3*n^2*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 6210*A*a*b^2*d^3*m^3*n^2*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 5700*B*a*b^2*d^3*m^3*n^2*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 1900*A*b^3*d^3*m^3*n^2*x*x^{(2*n)}e^{(m\log(e) + m\log(x))} + 1750*B*b^3*d^3*m^3*n^2*x*x^{(2*n)}e^{(m\log(e) + m\log(x))}
\end{aligned}$$

$$\begin{aligned}
& + 4872*B*b^3*d^3*m^n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 15822*B*a^2*b*c^3*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 15822*A*a*b^2*c^3*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 11388*B*a*b^2*c^3*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3796*A*b^3*c^3*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 2952*B*b^3*c^3*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 15822*B*a^3*c^2*d*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 47466*A*a^2*b*c^2*d*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 34164*B*a^2*b*c^2*d*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 34164*A*a*b^2*c^2*d*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 26568*B*a*b^2*c^2*d*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 8856*A*b^3*c^2*d*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 7236*B*b^3*c^2*d*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 15822*A*a^3*c*d^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 11388*B*a^3*c*d^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 34164*A*a^2*b*c*d^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 26568*B*a^2*b*c*d^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 26568*A*a*b^2*c*d^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 21708*B*a*b^2*c*d^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 7236*A*b^3*c*d^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 6114*B*b^3*c*d^2*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3796*A*a^3*d^3*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 2952*B*a^3*d^3*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 8856*A*a^2*b*d^3*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 7236*B*a^2*b*d^3*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 7236*A*a*b^2*d^3*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 6114*B*a*b^2*d^3*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 2038*A*b^3*d^3*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1764*B*b^3*d^3*n^5*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 21*B*a^3*c^3*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 63*A*a^2*b*c^3*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 63*B*a^2*b*c^3*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 63*A*a*b^2*c^3*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 63*B*a*b^2*c^3*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 21*A*b^3*c^3*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 21*B*b^3*c^3*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 63*A*a^3*c^2*d*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 63*B*a^3*c^2*d*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 189*A*a^2*b*c^2*d*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 189*B*a^2*b*c^2*d*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 189*A*a*b^2*c^2*d*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 189*B*a*b^2*c^2*d*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 63*A*b^3*c^2*d*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 63*B*b^3*c^2*d*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 63*A*a^3*c*d^2*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 63*B*a^3*c*d^2*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 189*A*a^2*b*c*d^2*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 189*B*a^2*b*c*d^2*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 189*A*a*b^2*c*d^2*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 189*B*a*b^2*c*d^2*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 63*A*b^3*c*d^2*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 63*B*b^3*c*d^2*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 21*A*a^3*d^3*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 21*B*a^3*d^3*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 63*A*a^2*b*d^3*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 63*B*a^2*b*d^3*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 63*A*a*b^2*d^3*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 63*B*a*b^2*d^3*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 21*A*b^3*d^3*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 21*B*b^3*d^3*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 405*B*a^3*c^3*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1215*A*a^2*b*c^3*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1170
\end{aligned}$$

$$\begin{aligned}
& *B^2*b^3*c^3*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1170*A*a*b^2*c^3*m^4*n*x \\
& *x^n*e^{(m*\log(e) + m*\log(x))} + 1125*B*a*b^2*c^3*m^4*n*x*x^n*e^{(m*\log(e) + m \\
& *\log(x))} + 375*A*b^3*c^3*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 360*B*b^3*c^ \\
& 3*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1215*A*a^3*c^2*d*m^4*n*x*x^n*e^{(m*1 \\
& \log(e) + m*\log(x))} + 1170*B*a^3*c^2*d*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + \\
& 3510*A*a^2*b*c^2*d*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3375*B*a^2*b*c^2*d \\
& *m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3375*A*a*b^2*c^2*d*m^4*n*x*x^n*e^{(m* \\
& \log(e) + m*\log(x))} + 3240*B*a*b^2*c^2*d*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 1080*A*b^3*c^2*d*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1035*B*b^3*c^2*d* \\
& m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1170*A*a^3*c*d^2*m^4*n*x*x^n*e^{(m*\log \\
& (e) + m*\log(x))} + 1125*B*a^3*c*d^2*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 33 \\
& 75*A*a^2*b*c*d^2*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3240*B*a^2*b*c*d^2*m \\
& ^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3240*A*a*b^2*c*d^2*m^4*n*x*x^n*e^{(m*lo \\
& g(e) + m*\log(x))} + 3105*B*a*b^2*c*d^2*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + \\
& 1035*A*b^3*c*d^2*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 990*B*b^3*c*d^2*m^4 \\
& *n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 375*A*a^3*d^3*m^4*n*x*x^n*e^{(m*\log(e) + \\
& m*\log(x))} + 360*B*a^3*d^3*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1080*A*a^2* \\
& b*d^3*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1035*B*a^2*b*d^3*m^4*n*x*x^n*e^{ \\
& (m*\log(e) + m*\log(x))} + 1035*A*a*b^2*d^3*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x) \\
&)} + 990*B*a*b^2*d^3*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 330*A*b^3*d^3*m^4 \\
& *n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 315*B*b^3*d^3*m^4*n*x*x^n*e^{(m*\log(e) + \\
& m*\log(x))} + 2950*B*a^3*c^3*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 8850*A*a \\
& ^2*b*c^3*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 8100*B*a^2*b*c^3*m^3*n^2*x \\
& *x^n*e^{(m*\log(e) + m*\log(x))} + 8100*A*a*b^2*c^3*m^3*n^2*x*x^n*e^{(m*\log(e) + \\
& m*\log(x))} + 7410*B*a*b^2*c^3*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2470* \\
& A*b^3*c^3*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2260*B*b^3*c^3*m^3*n^2*x* \\
& x^n*e^{(m*\log(e) + m*\log(x))} + 8850*A*a^3*c^2*d*m^3*n^2*x*x^n*e^{(m*\log(e) + \\
& m*\log(x))} + 8100*B*a^3*c^2*d*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 24300* \\
& A*a^2*b*c^2*d*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 22230*B*a^2*b*c^2*d*m \\
& ^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 22230*A*a*b^2*c^2*d*m^3*n^2*x*x^n*e^{ \\
& (m*\log(e) + m*\log(x))} + 20340*B*a*b^2*c^2*d*m^3*n^2*x*x^n*e^{(m*\log(e) + m*1 \\
& \log(x))} + 6780*A*b^3*c^2*d*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 6210*B*b^ \\
& 3*c^2*d*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 8100*A*a^3*c*d^2*m^3*n^2*x* \\
& x^n*e^{(m*\log(e) + m*\log(x))} + 7410*B*a^3*c*d^2*m^3*n^2*x*x^n*e^{(m*\log(e) + \\
& m*\log(x))} + 22230*A*a^2*b*c*d^2*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 203 \\
& 40*B*a^2*b*c*d^2*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 20340*A*a*b^2*c*d^ \\
& 2*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 18630*B*a*b^2*c*d^2*m^3*n^2*x*x^n \\
& *e^{(m*\log(e) + m*\log(x))} + 6210*A*b^3*c*d^2*m^3*n^2*x*x^n*e^{(m*\log(e) + m*1 \\
& \log(x))} + 5700*B*b^3*c*d^2*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2470*A*a^ \\
& 3*d^3*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2260*B*a^3*d^3*m^3*n^2*x*x^n* \\
& e^{(m*\log(e) + m*\log(x))} + 6780*A*a^2*b*d^3*m^3*n^2*x*x^n*e^{(m*\log(e) + m*lo \\
& g(x))} + 6210*B*a^2*b*d^3*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 6210*A*a*b \\
& ^2*d^3*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5700*B*a*b^2*d^3*m^3*n^2*x*x \\
& ^n*e^{(m*\log(e) + m*\log(x))} + 1900*A*b^3*d^3*m^3*n^2*x*x^n*e^{(m*\log(e) + m*1 \\
& \log(x))} + 1750*B*b^3*d^3*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 9990*B*a^3*
\end{aligned}$$

$$\begin{aligned}
& c^3 m^2 n^3 x x^n e^{(m \log(e) + m \log(x))} + 29970 A a^2 b c^3 m^2 n^3 x x^n \\
& e^{(m \log(e) + m \log(x))} + 25560 B a^2 b c^3 m^2 n^3 x x^n e^{(m \log(e) + m \log(x))} + 25560 A a b^2 c^3 m^2 n^3 x x^n e^{(m \log(e) + m \log(x))} + 21942 B \\
& a b^2 c^3 m^2 n^3 x x^n e^{(m \log(e) + m \log(x))} + 7314 A b^3 c^3 m^2 n^3 x \\
& x^n e^{(m \log(e) + m \log(x))} + 6336 B b^3 c^3 m^2 n^3 x x^n e^{(m \log(e) + m \\
& \log(x))} + 29970 A a^3 c^2 d m^2 n^3 x x^n e^{(m \log(e) + m \log(x))} + 25560 B \\
& a^3 c^2 d m^2 n^3 x x^n e^{(m \log(e) + m \log(x))} + 76680 A a^2 b c^2 d m^2 \\
& n^3 x x^n e^{(m \log(e) + m \log(x))} + 65826 B a^2 b c^2 d m^2 n^3 x x^n e^{(m \\
& \log(e) + m \log(x))} + 65826 A a a b^2 c^2 d m^2 n^3 x x^n e^{(m \log(e) + m \log \\
& (x))} + 57024 B a a b^2 c^2 d m^2 n^3 x x^n e^{(m \log(e) + m \log(x))} + 19008 A b \\
& b^3 c^2 d m^2 n^3 x x^n e^{(m \log(e) + m \log(x))} + 16650 B b^3 c^2 d m^2 n^3 \\
& x x^n e^{(m \log(e) + m \log(x))} + 25560 A a^3 c d^2 m^2 n^3 x x^n e^{(m \log(e) \\
&) + m \log(x)} + 21942 B a^3 c d^2 m^2 n^3 x x^n e^{(m \log(e) + m \log(x))} + 6 \\
& 5826 A a^2 b c d^2 m^2 n^3 x x^n e^{(m \log(e) + m \log(x))} + 57024 B a^2 b c d \\
& d^2 m^2 n^3 x x^n e^{(m \log(e) + m \log(x))} + 57024 A a a b^2 c d^2 m^2 n^3 x x \\
& x^n e^{(m \log(e) + m \log(x))} + 49950 B a a b^2 c d^2 m^2 n^3 x x^n e^{(m \log(e) \\
& + m \log(x))} + 16650 A b^3 c d^2 m^2 n^3 x x^n e^{(m \log(e) + m \log(x))} + 147 \\
& 60 B b^3 c d^2 m^2 n^3 x x^n e^{(m \log(e) + m \log(x))} + 7314 A a^3 d^3 m^2 n \\
& ^3 x x^n e^{(m \log(e) + m \log(x))} + 6336 B a^3 d^3 m^2 n^3 x x^n e^{(m \log(e) \\
& + m \log(x))} + 19008 A a^2 b d^3 m^2 n^3 x x^n e^{(m \log(e) + m \log(x))} + 16 \\
& 650 B a^2 b d^3 m^2 n^3 x x^n e^{(m \log(e) + m \log(x))} + 16650 A a a b^2 d^3 m \\
& ^2 n^3 x x^n e^{(m \log(e) + m \log(x))} + 14760 B a a b^2 d^3 m^2 n^3 x x^n e^{(m \\
& \log(e) + m \log(x))} + 4920 A b^3 d^3 m^2 n^3 x x^n e^{(m \log(e) + m \log(x))} \\
& + 4410 B b^3 d^3 m^2 n^3 x x^n e^{(m \log(e) + m \log(x))} + 15312 B a^3 c^3 m \\
& n^4 x x^n e^{(m \log(e) + m \log(x))} + 45936 A a^2 b c^3 m n^4 x x^n e^{(m \log(\\
& e) + m \log(x))} + 35361 B a^2 b c^3 m n^4 x x^n e^{(m \log(e) + m \log(x))} + 35 \\
& 361 A a a b^2 c^3 m n^4 x x^n e^{(m \log(e) + m \log(x))} + 28008 B a a b^2 c^3 m n \\
& ^4 x x^n e^{(m \log(e) + m \log(x))} + 9336 A b^3 c^3 m n^4 x x^n e^{(m \log(e) + \\
& m \log(x))} + 7635 B b^3 c^3 m n^4 x x^n e^{(m \log(e) + m \log(x))} + 45936 A a \\
& ^3 c^2 d m n^4 x x^n e^{(m \log(e) + m \log(x))} + 35361 B a^3 c^2 d m n^4 x x \\
& x^n e^{(m \log(e) + m \log(x))} + 106083 A a^2 b c^2 d m n^4 x x^n e^{(m \log(e) + \\
& m \log(x))} + 84024 B a^2 b c^2 d m n^4 x x^n e^{(m \log(e) + m \log(x))} + 84024 \\
& A a a b^2 c^2 d m n^4 x x^n e^{(m \log(e) + m \log(x))} + 68715 B a a b^2 c^2 d m n \\
& n^4 x x^n e^{(m \log(e) + m \log(x))} + 22905 A b^3 c^2 d m n^4 x x^n e^{(m \log(\\
& e) + m \log(x))} + 19296 B b^3 c^2 d m n^4 x x^n e^{(m \log(e) + m \log(x))} + 35 \\
& 361 A a^3 c d^2 m n^4 x x^n e^{(m \log(e) + m \log(x))} + 28008 B a^3 c d^2 m n \\
& ^4 x x^n e^{(m \log(e) + m \log(x))} + 84024 A a^2 b c d^2 m n^4 x x^n e^{(m \log \\
& (e) + m \log(x))} + 68715 B a^2 b c d^2 m n^4 x x^n e^{(m \log(e) + m \log(x))} + \\
& 68715 A a a b^2 c d^2 m n^4 x x^n e^{(m \log(e) + m \log(x))} + 57888 B a a b^2 c d \\
& d^2 m n^4 x x^n e^{(m \log(e) + m \log(x))} + 19296 A b^3 c d^2 m n^4 x x^n e^{(\\
& m \log(e) + m \log(x))} + 16641 B b^3 c d^2 m n^4 x x^n e^{(m \log(e) + m \log(x) \\
&)} + 9336 A a^3 d^3 m n^4 x x^n e^{(m \log(e) + m \log(x))} + 7635 B a^3 d^3 m n \\
& ^4 x x^n e^{(m \log(e) + m \log(x))} + 22905 A a^2 b d^3 m n^4 x x^n e^{(m \log(e) \\
&) + m \log(x)} + 19296 B a^2 b d^3 m n^4 x x^n e^{(m \log(e) + m \log(x))} + 192 \\
& 96 A a a b^2 d^3 m n^4 x x^n e^{(m \log(e) + m \log(x))} + 16641 B a a b^2 d^3 m n^
\end{aligned}$$

$4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5547*A*b^3*d^3*m^n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 4872*B*b^3*d^3*m^n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 8028*B*a^3*c^3*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 24084*A*a^2*b*c^3*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15822*B*a^2*b*c^3*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15822*A*a*b^2*c^3*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 11388*B*a*b^2*c^3*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3796*A*b^3*c^3*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2952*B*b^3*c^3*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 24084*A*a^3*c^2*d*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15822*B*a^3*c^2*d*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 47466*A*a^2*b*c^2*d*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 34164*B*a^2*b*c^2*d*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 34164*A*a*b^2*c^2*d*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 26568*B*a*b^2*c^2*d*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 8856*A*b^3*c^2*d*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 7236*B*b^3*c^2*d*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15822*A*a^3*c*d^2*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 11388*B*a^3*c*d^2*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 34164*A*a^2*b*c*d^2*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 26568*B*a^2*b*c*d^2*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 26568*A*a*b^2*c*d^2*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 21708*B*a*b^2*c*d^2*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 7236*A*b^3*c*d^2*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 6114*B*b^3*c*d^2*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3796*A*a^3*d^3*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2952*B*a^3*d^3*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 8856*A*a^2*b*d^3*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 7236*B*a^2*b*d^3*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 7236*A*a*b^2*d^3*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 6114*B*a*b^2*d^3*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2038*A*b^3*d^3*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1764*B*b^3*d^3*n^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 21*A*a^3*c^3*m^5*x*e^{(m*\log(e) + m*\log(x))} + 21*B*a^3*c^3*m^5*x*e^{(m*\log(e) + m*\log(x))} + 63*A*a^2*b*c^3*m^5*x*e^{(m*\log(e) + m*\log(x))} + 63*B*a^2*b*c^3*m^5*x*e^{(m*\log(e) + m*\log(x))} + 63*A*a*b^2*c^3*m^5*x*e^{(m*\log(e) + m*\log(x))} + 63*B*a*b^2*c^3*m^5*x*e^{(m*\log(e) + m*\log(x))} + 21*A*b^3*c^3*m^5*x*e^{(m*\log(e) + m*\log(x))} + 21*B*b^3*c^3*m^5*x*e^{(m*\log(e) + m*\log(x))} + 63*A*a^3*c^2*d*m^5*x*e^{(m*\log(e) + m*\log(x))} + 63*B*a^3*c^2*d*m^5*x*e^{(m*\log(e) + m*\log(x))} + m*\log(x) + 189*A*a^2*b*c^2*d*m^5*x*e^{(m*\log(e) + m*\log(x))} + 189*B*a^2*b*c^2*d*m^5*x*e^{(m*\log(e) + m*\log(x))} + 189*A*a*b^2*c^2*d*m^5*x*e^{(m*\log(e) + m*\log(x))} + 189*B*a*b^2*c^2*d*m^5*x*e^{(m*\log(e) + m*\log(x))} + 63*A*b^3*c^2*d*m^5*x*e^{(m*\log(e) + m*\log(x))} + 63*B*b^3*c^2*d*m^5*x*e^{(m*\log(e) + m*\log(x))} + m*\log(x) + 63*A*a^3*c*d^2*m^5*x*e^{(m*\log(e) + m*\log(x))} + 63*B*a^3*c*d^2*m^5*x*e^{(m*\log(e) + m*\log(x))} + 189*A*a^2*b*c*d^2*m^5*x*e^{(m*\log(e) + m*\log(x))} + 189*B*a^2*b*c*d^2*m^5*x*e^{(m*\log(e) + m*\log(x))} + 189*A*a*b^2*c*d^2*m^5*x*e^{(m*\log(e) + m*\log(x))} + 189*B*a*b^2*c*d^2*m^5*x*e^{(m*\log(e) + m*\log(x))} + 63*A*b^3*c*d^2*m^5*x*e^{(m*\log(e) + m*\log(x))} + 63*B*b^3*c*d^2*m^5*x*e^{(m*\log(e) + m*\log(x))} + m*\log(x) + 21*A*a^3*d^3*m^5*x*e^{(m*\log(e) + m*\log(x))} + 21*B*a^3*d^3*m^5*x*e^{(m*\log(e) + m*\log(x))} + 63*A*a^2*b*d^3*m^5*x*e^{(m*\log(e) + m*\log(x))} + 63*B*a^2*b*d^3*m^5*x*e^{(m*\log(e) + m*\log(x))} + 63*A*a*b^2*d^3*m^5*x*e^{(m*\log(e) + m*\log(x))} + 63*B*a*b^2*d^3*m^5*x*e^{(m*\log(e) + m*\log(x))} + 21*A*b^3*d^3*m^5*x*e^{(m*\log(e) + m*\log(x))} + 21*B*b^3*d^3*m^5*x*e^{(m*\log(e) + m*\log(x))} + 420*A*a^3*c^3*m^4*n*x*e^{(m*\log(e) + m*\log(x))} + 405*B*a^3*c^3*$

$$\begin{aligned}
& m^4 n x e^{(m \log(e) + m \log(x))} + 1215 A a^2 b c^3 m^4 n x e^{(m \log(e) + m \log(x))} + 1170 B a^2 b c^3 m^4 n x e^{(m \log(e) + m \log(x))} + 1170 A a b^2 c^3 m^4 n x e^{(m \log(e) + m \log(x))} + 1125 B a a b^2 c^3 m^4 n x e^{(m \log(e) + m \log(x))} + 375 A a b^3 c^3 m^4 n x e^{(m \log(e) + m \log(x))} + 360 B b^3 c^3 m^4 n x e^{(m \log(e) + m \log(x))} + 1215 A a^3 c^2 d m^4 n x e^{(m \log(e) + m \log(x))} + 1170 B a^3 c^2 d m^4 n x e^{(m \log(e) + m \log(x))} + 3510 A a^2 b c^2 d m^4 n x e^{(m \log(e) + m \log(x))} + 3375 B a^2 b c^2 d m^4 n x e^{(m \log(e) + m \log(x))} + 3375 A a b^2 c^2 d m^4 n x e^{(m \log(e) + m \log(x))} + 3240 B a b^2 c^2 d m^4 n x e^{(m \log(e) + m \log(x))} + 1080 A a b^3 c^2 d m^4 n x e^{(m \log(e) + m \log(x))} + 1035 B b^3 c^2 d m^4 n x e^{(m \log(e) + m \log(x))} + 1170 A a^3 c d^2 m^4 n x e^{(m \log(e) + m \log(x))} + 1125 B a^3 c d^2 m^4 n x e^{(m \log(e) + m \log(x))} + 3375 A a^2 b c d^2 m^4 n x e^{(m \log(e) + m \log(x))} + 3240 B a^2 b c d^2 m^4 n x e^{(m \log(e) + m \log(x))} + 3240 A a a b^2 c d^2 m^4 n x e^{(m \log(e) + m \log(x))} + 3105 B a a b^2 c d^2 m^4 n x e^{(m \log(e) + m \log(x))} + 1035 A a b^3 c d^2 m^4 n x e^{(m \log(e) + m \log(x))} + 990 B b^3 c d^2 m^4 n x e^{(m \log(e) + m \log(x))} + 375 A a^3 d^3 m^4 n x e^{(m \log(e) + m \log(x))} + 360 B a^3 d^3 m^4 n x e^{(m \log(e) + m \log(x))} + 1080 A a^2 b d^3 m^4 n x e^{(m \log(e) + m \log(x))} + 1035 B a^2 b d^3 m^4 n x e^{(m \log(e) + m \log(x))} + 1035 A a a b^2 d^3 m^4 n x e^{(m \log(e) + m \log(x))} + 990 B a a b^2 d^3 m^4 n x e^{(m \log(e) + m \log(x))} + 330 A a b^3 d^3 m^4 n x e^{(m \log(e) + m \log(x))} + 315 B b^3 d^3 m^4 n x e^{(m \log(e) + m \log(x))} + 3220 A a^3 c^3 m^3 n^2 x e^{(m \log(e) + m \log(x))} + 2950 B a^3 c^3 m^3 n^2 x e^{(m \log(e) + m \log(x))} + 8850 A a^2 b c^3 m^3 n^2 x e^{(m \log(e) + m \log(x))} + 8100 B a^2 b c^3 m^3 n^2 x e^{(m \log(e) + m \log(x))} + 8100 A a a b^2 c^3 m^3 n^2 x e^{(m \log(e) + m \log(x))} + 7410 B a a b^2 c^3 m^3 n^2 x e^{(m \log(e) + m \log(x))} + 2470 A a b^3 c^3 m^3 n^2 x e^{(m \log(e) + m \log(x))} + 2260 B b^3 c^3 m^3 n^2 x e^{(m \log(e) + m \log(x))} + 8850 A a^3 c^2 d m^3 n^2 x e^{(m \log(e) + m \log(x))} + 8100 B a^3 c^2 d m^3 n^2 x e^{(m \log(e) + m \log(x))} + 24300 A a^2 b c^2 d m^3 n^2 x e^{(m \log(e) + m \log(x))} + 22230 B a^2 b c^2 d m^3 n^2 x e^{(m \log(e) + m \log(x))} + 22230 A a a b^2 c^2 d m^3 n^2 x e^{(m \log(e) + m \log(x))} + 20340 B a a b^2 c^2 d m^3 n^2 x e^{(m \log(e) + m \log(x))} + 6780 A a b^3 c^2 d m^3 n^2 x e^{(m \log(e) + m \log(x))} + 6210 B b^3 c^2 d m^3 n^2 x e^{(m \log(e) + m \log(x))} + 8100 A a^3 c d^2 m^3 n^2 x e^{(m \log(e) + m \log(x))} + 7410 B a^3 c d^2 m^3 n^2 x e^{(m \log(e) + m \log(x))} + 22230 A a^2 b c d^2 m^3 n^2 x e^{(m \log(e) + m \log(x))} + 20340 B a^2 b c d^2 m^3 n^2 x e^{(m \log(e) + m \log(x))} + 18630 B a a b^2 c d^2 m^3 n^2 x e^{(m \log(e) + m \log(x))} + 6210 A a b^3 c d^2 m^3 n^2 x e^{(m \log(e) + m \log(x))} + 5700 B b^3 c d^2 m^3 n^2 x e^{(m \log(e) + m \log(x))} + 2470 A a^3 d^3 m^3 n^2 x e^{(m \log(e) + m \log(x))} + 2260 B a^3 d^3 m^3 n^2 x e^{(m \log(e) + m \log(x))} + 6780 A a^2 b d^3 m^3 n^2 x e^{(m \log(e) + m \log(x))} + 6210 B a^2 b d^3 m^3 n^2 x e^{(m \log(e) + m \log(x))} + 6210 A a a b^2 d^3 m^3 n^2 x e^{(m \log(e) + m \log(x))} + 5700 B a a b^2 d^3 m^3 n^2 x e^{(m \log(e) + m \log(x))} + 1900 A a b^3 d^3 m^3 n^2 x e^{(m \log(e) + m \log(x))} + 1750 B b^3 d^3 m^3 n^2 x e^{(m \log(e) + m \log(x))} + 11760 A a^3 c^3 m^2 n^3 x e^{(m \log(e) + m \log(x))} + 9990 B a^3 c^3 m^2 n^3 x e^{(m \log(e) + m \log(x))} + 29970 A a
\end{aligned}$$

$a^2 b^3 c^3 m^2 n^3 x e^{(m \log(e) + m \log(x))} + 25560 B a^2 b^3 c^3 m^2 n^3 x e^{(m \log(e) + m \log(x))} + 25560 A a^2 b^2 c^3 m^2 n^3 x e^{(m \log(e) + m \log(x))} + 21942 B a^2 b^2 c^3 m^2 n^3 x e^{(m \log(e) + m \log(x))} + 7314 A a^2 b^3 c^3 m^2 n^3 x e^{(m \log(e) + m \log(x))} + 6336 B b^3 c^3 m^2 n^3 x e^{(m \log(e) + m \log(x))} + 29970 A a^3 c^2 d m^2 n^3 x e^{(m \log(e) + m \log(x))} + 25560 B a^3 c^2 d m^2 n^3 x e^{(m \log(e) + m \log(x))} + 76680 A a^2 b^3 c^2 d m^2 n^3 x e^{(m \log(e) + m \log(x))} + 65826 B a^2 b^3 c^2 d m^2 n^3 x e^{(m \log(e) + m \log(x))} + 65826 A a^2 b^2 c^2 d m^2 n^3 x e^{(m \log(e) + m \log(x))} + 57024 B a^2 b^2 c^2 d m^2 n^3 x e^{(m \log(e) + m \log(x))} + 19008 A a^2 b^3 c^2 d m^2 n^3 x e^{(m \log(e) + m \log(x))} + 16650 B b^3 c^2 d m^2 n^3 x e^{(m \log(e) + m \log(x))} + 25560 A a^3 c^2 d m^2 n^3 x e^{(m \log(e) + m \log(x))} + 21942 B a^3 c^2 d m^2 n^3 x e^{(m \log(e) + m \log(x))} + 65826 A a^2 b^3 c^2 d m^2 n^3 x e^{(m \log(e) + m \log(x))} + 57024 B a^2 b^3 c^2 d m^2 n^3 x e^{(m \log(e) + m \log(x))} + 57024 A a^2 b^2 c^2 d m^2 n^3 x e^{(m \log(e) + m \log(x))} + 49950 B a^2 b^2 c^2 d m^2 n^3 x e^{(m \log(e) + m \log(x))} + 16650 A a^2 b^3 c^2 d m^2 n^3 x e^{(m \log(e) + m \log(x))} + 14760 B b^3 c^2 d m^2 n^3 x e^{(m \log(e) + m \log(x))} + 7314 A a^3 d^3 m^2 n^3 x e^{(m \log(e) + m \log(x))} + 6336 B a^3 d^3 m^2 n^3 x e^{(m \log(e) + m \log(x))} + 19008 A a^2 b^3 d^3 m^2 n^3 x e^{(m \log(e) + m \log(x))} + 16650 B a^2 b^3 d^3 m^2 n^3 x e^{(m \log(e) + m \log(x))} + 16650 A a^2 b^2 d^3 m^2 n^3 x e^{(m \log(e) + m \log(x))} + 14760 B a^2 b^2 d^3 m^2 n^3 x e^{(m \log(e) + m \log(x))} + 4920 A a^2 b^3 d^3 m^2 n^3 x e^{(m \log(e) + m \log(x))} + 4410 B b^3 d^3 m^2 n^3 x e^{(m \log(e) + m \log(x))} + 20307 A a^3 c^3 m n^4 x e^{(m \log(e) + m \log(x))} + 15312 B a^3 c^3 m n^4 x e^{(m \log(e) + m \log(x))} + 45936 A a^2 b^3 c^3 m n^4 x e^{(m \log(e) + m \log(x))} + 35361 B a^2 b^3 c^3 m n^4 x e^{(m \log(e) + m \log(x))} + 28008 B a^2 b^2 c^3 m n^4 x e^{(m \log(e) + m \log(x))} + 9336 A a^2 b^3 c^3 m n^4 x e^{(m \log(e) + m \log(x))} + 7635 B b^3 c^3 m n^4 x e^{(m \log(e) + m \log(x))} + 45936 A a^3 c^2 d m n^4 x e^{(m \log(e) + m \log(x))} + 35361 B a^3 c^2 d m n^4 x e^{(m \log(e) + m \log(x))} + 106083 A a^2 b^3 c^2 d m n^4 x e^{(m \log(e) + m \log(x))} + 84024 B a^2 b^3 c^2 d m n^4 x e^{(m \log(e) + m \log(x))} + 84024 A a^2 b^2 c^2 d m n^4 x e^{(m \log(e) + m \log(x))} + 68715 B a^2 b^2 c^2 d m n^4 x e^{(m \log(e) + m \log(x))} + 22905 A a^2 b^3 c^2 d m n^4 x e^{(m \log(e) + m \log(x))} + 19296 B b^3 c^2 d m n^4 x e^{(m \log(e) + m \log(x))} + 35361 A a^3 c^2 d m n^4 x e^{(m \log(e) + m \log(x))} + 28008 B a^3 c^2 d m n^4 x e^{(m \log(e) + m \log(x))} + 84024 A a^2 b^3 c^2 d m n^4 x e^{(m \log(e) + m \log(x))} + 68715 B a^2 b^3 c^2 d m n^4 x e^{(m \log(e) + m \log(x))} + 68715 A a^2 b^2 c^2 d m n^4 x e^{(m \log(e) + m \log(x))} + 57888 B a^2 b^2 c^2 d m n^4 x e^{(m \log(e) + m \log(x))} + 19296 A a^2 b^3 c^2 d m n^4 x e^{(m \log(e) + m \log(x))} + 16641 B b^3 c^2 d m n^4 x e^{(m \log(e) + m \log(x))} + 9336 A a^3 d^3 m n^4 x e^{(m \log(e) + m \log(x))} + 7635 B a^3 d^3 m n^4 x e^{(m \log(e) + m \log(x))} + 22905 A a^2 b^3 d^3 m n^4 x e^{(m \log(e) + m \log(x))} + 19296 B a^2 b^3 d^3 m n^4 x e^{(m \log(e) + m \log(x))} + 19296 A a^2 b^2 d^3 m n^4 x e^{(m \log(e) + m \log(x))} + 16641 B a^2 b^2 d^3 m n^4 x e^{(m \log(e) + m \log(x))} + 5547 A a^2 b^3 d^3 m n^4 x e^{(m \log(e) + m \log(x))} + 4872 B b^3 d^3 m n^4 x e^{(m \log(e) + m \log(x))} + 13132 A a^3 c^3 n^5 x e^{(m \log(e) + m \log(x))} + 8028 B a^3 c^3 n^5 x e^{(m \log(e) + m \log(x))} + 24084 A a^2$

$$\begin{aligned}
& *b^3c^3n^5xe^{(m\log(e) + m\log(x))} + 15822*B^2a^2b^3c^3n^5xe^{(m\log(e) + m\log(x))} \\
& + 15822*A^2ab^2c^3n^5xe^{(m\log(e) + m\log(x))} + 11388*B^2ab^2c^3n^5xe^{(m\log(e) + m\log(x))} \\
& + 3796*A^2b^3c^3n^5xe^{(m\log(e) + m\log(x))} + 2952*B^2b^3c^3n^5xe^{(m\log(e) + m\log(x))} \\
& + 24084*A^2a^3c^2d^2n^5xe^{(m\log(e) + m\log(x))} + 15822*B^2a^3c^2d^2n^5xe^{(m\log(e) + m\log(x))} \\
& + 47466*A^2a^2b^2c^2d^2n^5xe^{(m\log(e) + m\log(x))} + 34164*B^2a^2b^2c^2d^2n^5xe^{(m\log(e) + m\log(x))} \\
& + 34164*A^2ab^2c^2d^2n^5xe^{(m\log(e) + m\log(x))} + 26568*B^2ab^2c^2d^2n^5xe^{(m\log(e) + m\log(x))} \\
& + 8856*A^2b^3c^2d^2n^5xe^{(m\log(e) + m\log(x))} + 7236*B^2b^3c^2d^2n^5xe^{(m\log(e) + m\log(x))} \\
& + 15822*A^2a^3c^2d^2n^5xe^{(m\log(e) + m\log(x))} + 11388*B^2a^3c^2d^2n^5xe^{(m\log(e) + m\log(x))} \\
& + 34164*A^2a^2b^2c^2d^2n^5xe^{(m\log(e) + m\log(x))} + 26568*B^2a^2b^2c^2d^2n^5xe^{(m\log(e) + m\log(x))} \\
& + 26568*A^2ab^2c^2d^2n^5xe^{(m\log(e) + m\log(x))} + 21708*B^2ab^2c^2d^2n^5xe^{(m\log(e) + m\log(x))} \\
& + 7236*A^2b^3c^2d^2n^5xe^{(m\log(e) + m\log(x))} + 6114*B^2b^3c^2d^2n^5xe^{(m\log(e) + m\log(x))} \\
& + 3796*A^2a^3d^3n^5xe^{(m\log(e) + m\log(x))} + 2952*B^2a^3d^3n^5xe^{(m\log(e) + m\log(x))} \\
& + 8856*A^2a^2b^2d^3n^5xe^{(m\log(e) + m\log(x))} + 7236*B^2a^2b^2d^3n^5xe^{(m\log(e) + m\log(x))} \\
& + 7236*A^2ab^2d^3n^5xe^{(m\log(e) + m\log(x))} + 6114*B^2ab^2d^3n^5xe^{(m\log(e) + m\log(x))} \\
& + 2038*A^2b^3d^3n^5xe^{(m\log(e) + m\log(x))} + 1764*B^2b^3d^3n^5xe^{(m\log(e) + m\log(x))} \\
& + 35*B^2b^3d^3m^4xxx^{(7n)}e^{(m\log(e) + m\log(x))} + 420*B^2b^3d^3m^3nxxx^{(7n)}e^{(m\log(e) + m\log(x))} \\
& + 1750*B^2b^3d^3m^2n^2xxx^{(7n)}e^{(m\log(e) + m\log(x))} + 2940*B^2b^3d^3m^2n^3xxx^{(7n)}e^{(m\log(e) + m\log(x))} \\
& + 1624*B^2b^3d^3m^3n^4xxx^{(7n)}e^{(m\log(e) + m\log(x))} + 105*B^2b^3c^2d^2m^4xxx^{(6n)}e^{(m\log(e) + m\log(x))} \\
& + 105*B^2ab^2d^3m^4xxx^{(6n)}e^{(m\log(e) + m\log(x))} + 35*A^2b^3d^3m^4xxx^{(6n)}e^{(m\log(e) + m\log(x))} \\
& + 35*B^2b^3d^3m^4xxx^{(6n)}e^{(m\log(e) + m\log(x))} + 1320*B^2b^3c^2d^2m^3nxxx^{(6n)}e^{(m\log(e) + m\log(x))} \\
& + 1320*B^2ab^2d^3m^3nxxx^{(6n)}e^{(m\log(e) + m\log(x))} + 440*A^2b^3d^3m^3nxxx^{(6n)}e^{(m\log(e) + m\log(x))} \\
& + 420*B^2b^3d^3m^3nxxx^{(6n)}e^{(m\log(e) + m\log(x))} + 5700*B^2b^3c^2d^2m^2n^2xxx^{(6n)}e^{(m\log(e) + m\log(x))} \\
& + 5700*B^2ab^2d^3m^2n^2xxx^{(6n)}e^{(m\log(e) + m\log(x))} + 1900*A^2b^3d^3m^2n^2xxx^{(6n)}e^{(m\log(e) + m\log(x))} \\
& + 1750*B^2b^3d^3m^2n^2xxx^{(6n)}e^{(m\log(e) + m\log(x))} + 9840*B^2b^3c^2d^2m^2n^3xxx^{(6n)}e^{(m\log(e) + m\log(x))} \\
& + 9840*B^2ab^2d^3m^2n^3xxx^{(6n)}e^{(m\log(e) + m\log(x))} + 3280*A^2b^3d^3m^2n^3xxx^{(6n)}e^{(m\log(e) + m\log(x))} \\
& + 2940*B^2b^3d^3m^2n^3xxx^{(6n)}e^{(m\log(e) + m\log(x))} + 5547*B^2b^3c^2d^2n^4xxx^{(6n)}e^{(m\log(e) + m\log(x))} \\
& + 5547*B^2ab^2d^3n^4xxx^{(6n)}e^{(m\log(e) + m\log(x))} + 1849*A^2b^3d^3n^4xxx^{(6n)}e^{(m\log(e) + m\log(x))} \\
& + 1624*B^2b^3d^3n^4xxx^{(6n)}e^{(m\log(e) + m\log(x))} + 105*B^2b^3c^2d^2m^4xxx^{(5n)}e^{(m\log(e) + m\log(x))} \\
& + 315*B^2ab^2c^2d^2m^4xxx^{(5n)}e^{(m\log(e) + m\log(x))} + 105*A^2b^3c^2d^2m^4xxx^{(5n)}e^{(m\log(e) + m\log(x))} \\
& + 105*B^2b^3c^2d^2m^4xxx^{(5n)}e^{(m\log(e) + m\log(x))} + 105*A^2a^2b^2d^3m^4xxx^{(5n)}e^{(m\log(e) + m\log(x))} \\
& + 105*B^2a^2b^2d^3m^4xxx^{(5n)}e^{(m\log(e) + m\log(x))} + 35*A^2b^3d^3m^4xxx^{(5n)}e^{(m\log(e) + m\log(x))} \\
& + 35*B^2b^3d^3m^4xxx^{(5n)}e^{(m\log(e) + m\log(x))}
\end{aligned}$$

$$\begin{aligned}
&) * e^{(m \log(e) + m \log(x))} + 1380 * B * b^3 * c^2 * d^2 * m^3 * n * x * x^{(5*n)} * e^{(m \log(e) + m \log(x))} \\
& + 4140 * B * a * b^2 * c * d^2 * m^3 * n * x * x^{(5*n)} * e^{(m \log(e) + m \log(x))} + 1380 * A * b^3 * c * d^2 * m^3 * n * x * x^{(5*n)} * e^{(m \log(e) + m \log(x))} \\
& + 1320 * B * b^3 * c * d^2 * m^3 * n * x * x^{(5*n)} * e^{(m \log(e) + m \log(x))} + 1380 * B * a^2 * b * d^3 * m^3 * n * x * x^{(5*n)} * e^{(m \log(e) + m \log(x))} \\
& + 1380 * A * a * b^2 * d^3 * m^3 * n * x * x^{(5*n)} * e^{(m \log(e) + m \log(x))} + 1320 * B * a * b^2 * d^3 * m^3 * n * x * x^{(5*n)} * e^{(m \log(e) + m \log(x))} \\
& + 440 * A * b^3 * d^3 * m^3 * n * x * x^{(5*n)} * e^{(m \log(e) + m \log(x))} + 420 * B * b^3 * d^3 * m^3 * n * x * x^{(5*n)} * e^{(m \log(e) + m \log(x))} \\
& + 6210 * B * b^3 * c^2 * d * m^2 * n^2 * x * x^{(5*n)} * e^{(m \log(e) + m \log(x))} + 18630 * B * a * b^2 * c * d^2 * m^2 * n^2 * x * x^{(5*n)} * e^{(m \log(e) + m \log(x))} \\
& + 6210 * A * b^3 * c * d^2 * m^2 * n^2 * x * x^{(5*n)} * e^{(m \log(e) + m \log(x))} + 5700 * B * b^3 * c * d^2 * m^2 * n^2 * x * x^{(5*n)} * e^{(m \log(e) + m \log(x))} \\
& + 6210 * B * a^2 * b * d^3 * m^2 * n^2 * x * x^{(5*n)} * e^{(m \log(e) + m \log(x))} + 6210 * A * a * b^2 * d^3 * m^2 * n^2 * x * x^{(5*n)} * e^{(m \log(e) + m \log(x))} \\
& + 5700 * B * a * b^2 * d^3 * m^2 * n^2 * x * x^{(5*n)} * e^{(m \log(e) + m \log(x))} + 1900 * A * b^3 * d^3 * m^2 * n^2 * x * x^{(5*n)} * e^{(m \log(e) + m \log(x))} \\
& + 1750 * B * b^3 * d^3 * m^2 * n^2 * x * x^{(5*n)} * e^{(m \log(e) + m \log(x))} + 11100 * B * b^3 * c^2 * d * m * n^3 * x * x^{(5*n)} * e^{(m \log(e) + m \log(x))} \\
& + 33300 * B * a * b^2 * c * d^2 * m * n^3 * x * x^{(5*n)} * e^{(m \log(e) + m \log(x))} + 11100 * A * b^3 * c * d^2 * m * n^3 * x * x^{(5*n)} * e^{(m \log(e) + m \log(x))} \\
& + 9840 * B * b^3 * c * d^2 * m * n^3 * x * x^{(5*n)} * e^{(m \log(e) + m \log(x))} + 11100 * B * a^2 * b * d^3 * m * n^3 * x * x^{(5*n)} * e^{(m \log(e) + m \log(x))} \\
& + 11100 * A * a * b^2 * d^3 * m * n^3 * x * x^{(5*n)} * e^{(m \log(e) + m \log(x))} + 9840 * B * a * b^2 * d^3 * m * n^3 * x * x^{(5*n)} * e^{(m \log(e) + m \log(x))} \\
& + 3280 * A * b^3 * d^3 * m * n^3 * x * x^{(5*n)} * e^{(m \log(e) + m \log(x))} + 2940 * B * b^3 * d^3 * m * n^3 * x * x^{(5*n)} * e^{(m \log(e) + m \log(x))} \\
& + 6432 * B * b^3 * c^2 * d * n^4 * x * x^{(5*n)} * e^{(m \log(e) + m \log(x))} + 19296 * B * a * b^2 * c * d^2 * n^4 * x * x^{(5*n)} * e^{(m \log(e) + m \log(x))} \\
& + 6432 * A * b^3 * c * d^2 * n^4 * x * x^{(5*n)} * e^{(m \log(e) + m \log(x))} + 5547 * B * b^3 * c * d^2 * n^4 * x * x^{(5*n)} * e^{(m \log(e) + m \log(x))} \\
& + 6432 * B * a^2 * b * d^3 * n^4 * x * x^{(5*n)} * e^{(m \log(e) + m \log(x))} + 6432 * A * a * b^2 * d^3 * n^4 * x * x^{(5*n)} * e^{(m \log(e) + m \log(x))} \\
& + 5547 * B * a * b^2 * d^3 * n^4 * x * x^{(5*n)} * e^{(m \log(e) + m \log(x))} + 1849 * A * b^3 * d^3 * n^4 * x * x^{(5*n)} * e^{(m \log(e) + m \log(x))} \\
& + 1624 * B * b^3 * d^3 * n^4 * x * x^{(5*n)} * e^{(m \log(e) + m \log(x))} + 35 * B * b^3 * c^3 * m^4 * x * x^{(4*n)} * e^{(m \log(e) + m \log(x))} \\
& + 315 * B * a * b^2 * c^2 * d * m^4 * x * x^{(4*n)} * e^{(m \log(e) + m \log(x))} + 105 * A * b^3 * c^2 * d * m^4 * x * x^{(4*n)} * e^{(m \log(e) + m \log(x))} \\
& + 105 * B * b^3 * c^2 * d * m^4 * x * x^{(4*n)} * e^{(m \log(e) + m \log(x))} + 315 * B * a^2 * b * c * d^2 * m^4 * x * x^{(4*n)} * e^{(m \log(e) + m \log(x))} \\
& + 315 * A * a * b^2 * c * d^2 * m^4 * x * x^{(4*n)} * e^{(m \log(e) + m \log(x))} + 315 * B * a * b^2 * c * d^2 * m^4 * x * x^{(4*n)} * e^{(m \log(e) + m \log(x))} \\
& + 105 * A * b^3 * c * d^2 * m^4 * x * x^{(4*n)} * e^{(m \log(e) + m \log(x))} + 105 * B * b^3 * c * d^2 * m^4 * x * x^{(4*n)} * e^{(m \log(e) + m \log(x))} \\
& + 35 * B * a^3 * d^3 * m^4 * x * x^{(4*n)} * e^{(m \log(e) + m \log(x))} + 105 * A * a^2 * b * d^3 * m^4 * x * x^{(4*n)} * e^{(m \log(e) + m \log(x))} \\
& + 105 * B * a^2 * b * d^3 * m^4 * x * x^{(4*n)} * e^{(m \log(e) + m \log(x))} + 105 * A * a * b^2 * d^3 * m^4 * x * x^{(4*n)} * e^{(m \log(e) + m \log(x))} \\
& + 105 * B * a * b^2 * d^3 * m^4 * x * x^{(4*n)} * e^{(m \log(e) + m \log(x))} + 35 * A * b^3 * d^3 * m^4 * x * x^{(4*n)} * e^{(m \log(e) + m \log(x))} \\
& + 35 * B * b^3 * d^3 * m^4 * x * x^{(4*n)} * e^{(m \log(e) + m \log(x))} + 480 * B * b^3 * c^3 * m^3 * n * x * x^{(4*n)} * e^{(m \log(e) + m \log(x))} \\
& + 4320 * B * a * b^2 * c^2 * d * m^3 * n * x * x^{(4*n)} * e^{(m \log(e) + m \log(x))} + 1440 * A * b^3 * c^2 * d * m^3 * n * x * x^{(4*n)} * e^{(m \log(e) + m \log(x))} \\
& + 1380 * B * b^3 * c^2 * d * m^3 * n * x * x^{(4*n)} * e^{(m \log(e) + m \log(x))} + 4320 * B * a^2 * b * c * d^2 * m^3 * n * x * x^{(4*n)} * e^{(m \log(e) + m \log(x))} \\
& + 4320 * A * a * b^2 * c * d^2 * m^3 * n * x * x^{(4*n)} * e^{(m \log(e) + m \log(x))} + 4320 * A * a * b^2 * c * d^2 * m^3 * n * x * x^{(4*n)} * e^{(m \log(e) + m \log(x))}
\end{aligned}$$

$$\begin{aligned}
& m \log(e) + m \log(x)) + 4140 * B * a * b^2 * c * d^2 * m^3 * n * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 1380 * A * b^3 * c * d^2 * m^3 * n * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 1320 * B * \\
& b^3 * c * d^2 * m^3 * n * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 480 * B * a^3 * d^3 * m^3 * n * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 1440 * A * a^2 * b * d^3 * m^3 * n * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 1380 * B * a^2 * b * d^3 * m^3 * n * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 1380 * A * a * b^2 * d^3 * m^3 * n * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 1320 * B * a * b^2 * d^3 * m^3 * n * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 440 * A * b^3 * d^3 * m^3 * n * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 420 * B * b^3 * d^3 * m^3 * n * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 2260 * B * b^3 * c^3 * m^2 * n^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 20340 * B * a * b^2 * c^2 * d * m^2 * n^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 6780 * A * b^3 * c^2 * d * m^2 * n^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 6210 * B * b^3 * c^2 * d * m^2 * n^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 20340 * B * a^2 * b * c * d^2 * m^2 * n^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 20340 * A * a * b^2 * c * d^2 * m^2 * n^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 18630 * B * a * b^2 * c * d^2 * m^2 * n^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 6210 * A * b^3 * c * d^2 * m^2 * n^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 5700 * B * b^3 * c * d^2 * m^2 * n^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 2260 * B * a^3 * d^3 * m^2 * n^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 6780 * A * a^2 * b * d^3 * m^2 * n^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 6210 * B * a^2 * b * d^3 * m^2 * n^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 6210 * A * a * b^2 * d^3 * m^2 * n^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 5700 * B * a * b^2 * d^3 * m^2 * n^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 1900 * A * b^3 * d^3 * m^2 * n^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 1750 * B * b^3 * d^3 * m^2 * n^2 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 4224 * B * b^3 * c^3 * m * n^3 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 38016 * B * a * b^2 * c^2 * d * m * n^3 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 12672 * A * b^3 * c^2 * d * m * n^3 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 11100 * B * b^3 * c^2 * d * m * n^3 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 38016 * B * a^2 * b * c * d^2 * m * n^3 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 38016 * A * a * b^2 * c * d^2 * m * n^3 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 33300 * B * a * b^2 * c * d^2 * m * n^3 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 11100 * A * b^3 * c * d^2 * m * n^3 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 9840 * B * b^3 * c * d^2 * m * n^3 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 4224 * B * a^3 * d^3 * m * n^3 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 12672 * A * a^2 * b * d^3 * m * n^3 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 11100 * B * a^2 * b * d^3 * m * n^3 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 11100 * A * a * b^2 * d^3 * m * n^3 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 9840 * B * a * b^2 * d^3 * m * n^3 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 3280 * A * b^3 * d^3 * m * n^3 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 2940 * B * b^3 * d^3 * m * n^3 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 2545 * B * b^3 * c^3 * n^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 22905 * B * a * b^2 * c^2 * d * n^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 7635 * A * b^3 * c^2 * d * n^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 6432 * B * b^3 * c^2 * d * n^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 22905 * B * a^2 * b * c * d^2 * n^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 22905 * A * a * b^2 * c * d^2 * n^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 19296 * B * a * b^2 * c * d^2 * n^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 6432 * A * b^3 * c * d^2 * n^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 5547 * B * b^3 * c * d^2 * n^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 2545 * B * a^3 * d^3 * n^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 7635 * A * a^2 * b * d^3 * n^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 6432 * B * a^2 * b * d^3 * n^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 6432 * A * a * b^2 * d^3 * n^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 5547 * B * a * b^2 * d^3 * n^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 1849 * A * b^3 * d^3 * n^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))}
\end{aligned}$$

$$\begin{aligned}
& e^{(m \log(e) + m \log(x))} + 1624 * B * b^3 * d^3 * m^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 105 * B * a * b^2 * c^3 * m^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 35 * A * b^3 * c^3 * m^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 35 * B * b^3 * c^3 * m^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 315 * B * a^2 * b * c^2 * d * m^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 315 * A * a * b^2 * c^2 * d * m^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 315 * B * a * b^2 * c^2 * d * m^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 105 * A * b^3 * c^2 * d * m^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 105 * B * b^3 * c^2 * d * m^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 105 * B * a^3 * c * d^2 * m^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 315 * A * a^2 * b * c * d^2 * m^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 315 * B * a^2 * b * c * d^2 * m^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 315 * A * a * b^2 * c * d^2 * m^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 315 * B * a * b^2 * c * d^2 * m^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 105 * A * b^3 * c * d^2 * m^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 105 * B * b^3 * c * d^2 * m^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 35 * A * a^3 * d^3 * m^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 35 * B * a^3 * d^3 * m^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 105 * A * a^2 * b * d^3 * m^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 105 * B * a^2 * b * d^3 * m^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 105 * A * a * b^2 * d^3 * m^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 35 * A * b^3 * d^3 * m^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 35 * B * b^3 * d^3 * m^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 1500 * B * a * b^2 * c^3 * m^3 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 500 * A * b^3 * c^3 * m^3 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 480 * B * b^3 * c^3 * m^3 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 4500 * B * a^2 * b * c^2 * d * m^3 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 4500 * A * a * b^2 * c^2 * d * m^3 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 4320 * B * a * b^2 * c^2 * d * m^3 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 1440 * A * b^3 * c^2 * d * m^3 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 1380 * B * b^3 * c^2 * d * m^3 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 1500 * B * a^3 * c * d^2 * m^3 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 4500 * A * a^2 * b * c * d^2 * m^3 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 4320 * B * a^2 * b * c * d^2 * m^3 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 4320 * A * a * b^2 * c * d^2 * m^3 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 4140 * B * a * b^2 * c * d^2 * m^3 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 1380 * A * b^3 * c * d^2 * m^3 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 1320 * B * b^3 * c * d^2 * m^3 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 500 * A * a^3 * d^3 * m^3 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 480 * B * a^3 * d^3 * m^3 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 1440 * A * a^2 * b * d^3 * m^3 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 1380 * B * a^2 * b * d^3 * m^3 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 1380 * A * a * b^2 * d^3 * m^3 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 1320 * B * a * b^2 * d^3 * m^3 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 440 * A * b^3 * d^3 * m^3 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 420 * B * b^3 * d^3 * m^3 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 7410 * B * a * b^2 * c^3 * m^2 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 2470 * A * b^3 * c^3 * m^2 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 2260 * B * b^3 * c^3 * m^2 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 22230 * B * a^2 * b * c^2 * d * m^2 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 22230 * A * a * b^2 * c^2 * d * m^2 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 20340 * B * a * b^2 * c^2 * d * m^2 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 6780 * A * b^3 * c^2 * d * m^2 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 6210 * B * b^3 * c^2 * d * m^2 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 7410 * B * a^3 * c * d^2 * m^2 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 22230 * A * a^2 * b * c * d^2 * m^2 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 20340 * B * a^2 * b * c * d^2 * m^2 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))}
\end{aligned}$$

$$\begin{aligned}
& ^{(m \log(e) + m \log(x))} + 20340 * A * a * b^2 * c * d^2 * m^2 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) \\
& + m \log(x))} + 18630 * B * a * b^2 * c * d^2 * m^2 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 6210 * A * b^3 * c * d^2 * m^2 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 5700 * B * b^3 * \\
& c * d^2 * m^2 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 2470 * A * a^3 * d^3 * m^2 * n^2 * x * \\
& x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 2260 * B * a^3 * d^3 * m^2 * n^2 * x * x^{(3 * n)} * e^{(m \log \\
& (e) + m \log(x))} + 6780 * A * a^2 * b * d^3 * m^2 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
&) + 6210 * B * a^2 * b * d^3 * m^2 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 6210 * A * a * b \\
& ^2 * d^3 * m^2 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 5700 * B * a * b^2 * d^3 * m^2 * n^2 \\
& * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 1900 * A * b^3 * d^3 * m^2 * n^2 * x * x^{(3 * n)} * e^{(m \\
& \log(e) + m \log(x))} + 1750 * B * b^3 * d^3 * m^2 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x) \\
&)} + 14628 * B * a * b^2 * c^3 * m * n^3 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 4876 * A * b^3 \\
& * c^3 * m * n^3 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 4224 * B * b^3 * c^3 * m * n^3 * x * x^{(3 * \\
& n)} * e^{(m \log(e) + m \log(x))} + 43884 * B * a^2 * b * c^2 * d * m * n^3 * x * x^{(3 * n)} * e^{(m \log(e) \\
&) + m \log(x)} + 43884 * A * a * b^2 * c^2 * d * m * n^3 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 38016 * B * a * b^2 * c^2 * d * m * n^3 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 12672 * A * b^ \\
& 3 * c^2 * d * m * n^3 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 11100 * B * b^3 * c^2 * d * m * n^3 * x \\
& * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 14628 * B * a^3 * c * d^2 * m * n^3 * x * x^{(3 * n)} * e^{(m \\
& \log(e) + m \log(x))} + 43884 * A * a^2 * b * c * d^2 * m * n^3 * x * x^{(3 * n)} * e^{(m \log(e) + m \log \\
& (x))} + 38016 * B * a^2 * b * c * d^2 * m * n^3 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 38016 * \\
& A * a * b^2 * c * d^2 * m * n^3 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 33300 * B * a * b^2 * c * d^2 \\
& * m * n^3 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 11100 * A * b^3 * c * d^2 * m * n^3 * x * x^{(3 * n)} \\
&) * e^{(m \log(e) + m \log(x))} + 9840 * B * b^3 * c * d^2 * m * n^3 * x * x^{(3 * n)} * e^{(m \log(e) + \\
& m \log(x))} + 4876 * A * a^3 * d^3 * m * n^3 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 4224 * B \\
& * a^3 * d^3 * m * n^3 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 12672 * A * a^2 * b * d^3 * m * n^3 * \\
& x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 11100 * B * a^2 * b * d^3 * m * n^3 * x * x^{(3 * n)} * e^{(m \\
& \log(e) + m \log(x))} + 11100 * A * a * b^2 * d^3 * m * n^3 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(\\
& x))} + 9840 * B * a * b^2 * d^3 * m * n^3 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 3280 * A * b^3 \\
& * d^3 * m * n^3 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 2940 * B * b^3 * d^3 * m * n^3 * x * x^{(3 * \\
& n)} * e^{(m \log(e) + m \log(x))} + 9336 * B * a * b^2 * c^3 * n^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \\
& * \log(x))} + 3112 * A * b^3 * c^3 * n^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 2545 * B * b^ \\
& 3 * c^3 * n^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 28008 * B * a^2 * b * c^2 * d * n^4 * x * x^{(\\
& 3 * n)} * e^{(m \log(e) + m \log(x))} + 28008 * A * a * b^2 * c^2 * d * n^4 * x * x^{(3 * n)} * e^{(m \log(e) \\
&) + m \log(x)} + 22905 * B * a * b^2 * c^2 * d * n^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + \\
& 7635 * A * b^3 * c^2 * d * n^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 6432 * B * b^3 * c^2 * d * \\
& n^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 9336 * B * a^3 * c * d^2 * n^4 * x * x^{(3 * n)} * e^{(m \\
& * \log(e) + m \log(x))} + 28008 * A * a^2 * b * c * d^2 * n^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log \\
& (x))} + 22905 * B * a^2 * b * c * d^2 * n^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 22905 * A * \\
& a * b^2 * c * d^2 * n^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 19296 * B * a * b^2 * c * d^2 * n^4 \\
& * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 6432 * A * b^3 * c * d^2 * n^4 * x * x^{(3 * n)} * e^{(m \\
& \log(e) + m \log(x))} + 5547 * B * b^3 * c * d^2 * n^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + \\
& 3112 * A * a^3 * d^3 * n^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 2545 * B * a^3 * d^3 * n^4 * \\
& x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 7635 * A * a^2 * b * d^3 * n^4 * x * x^{(3 * n)} * e^{(m \log \\
& (e) + m \log(x))} + 6432 * B * a^2 * b * d^3 * n^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + \\
& 6432 * A * a * b^2 * d^3 * n^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 5547 * B * a * b^2 * d^3 * n \\
& ^4 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 1849 * A * b^3 * d^3 * n^4 * x * x^{(3 * n)} * e^{(m \\
\end{aligned}$$

$$\begin{aligned}
& *x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 7410 * B * a * b^2 * c^3 * m^2 * n^2 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} \\
& + 2470 * A * b^3 * c^3 * m^2 * n^2 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 2260 * B * b^3 * c^3 * m^2 * n^2 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} \\
& + 8100 * B * a^3 * c^2 * d * m^2 * n^2 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 24300 * A * a^2 * b * c^2 * d * m^2 * n^2 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} \\
& + 22230 * B * a^2 * b * c^2 * d * m^2 * n^2 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 22230 * A * a * b^2 * c^2 * d * m^2 * n^2 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} \\
& + 20340 * B * a * b^2 * c^2 * d * m^2 * n^2 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 6780 * A * b^3 * c^2 * d * m^2 * n^2 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} \\
& + 6210 * B * b^3 * c^2 * d * m^2 * n^2 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 8100 * A * a^3 * c * d^2 * m^2 * n^2 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} \\
& + 7410 * B * a^3 * c * d^2 * m^2 * n^2 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 22230 * A * a^2 * b * c * d^2 * m^2 * n^2 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} \\
& + 20340 * B * a^2 * b * c * d^2 * m^2 * n^2 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 20340 * A * a * b^2 * c * d^2 * m^2 * n^2 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} \\
& + 18630 * B * a * b^2 * c * d^2 * m^2 * n^2 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 6210 * A * b^3 * c * d^2 * m^2 * n^2 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} \\
& + 5700 * B * b^3 * c * d^2 * m^2 * n^2 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 2470 * A * a^3 * d^3 * m^2 * n^2 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} \\
& + 2260 * B * a^3 * d^3 * m^2 * n^2 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 6780 * A * a^2 * b * d^3 * m^2 * n^2 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} \\
& + 6210 * B * a^2 * b * d^3 * m^2 * n^2 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 6210 * A * a * b^2 * d^3 * m^2 * n^2 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} \\
& + 5700 * B * a * b^2 * d^3 * m^2 * n^2 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 1900 * A * b^3 * d^3 * m^2 * n^2 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} \\
& + 1750 * B * b^3 * d^3 * m^2 * n^2 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 17040 * B * a^2 * b * c^3 * m * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} \\
& + 17040 * A * a * b^2 * c^3 * m * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 14628 * B * a * b^2 * c^3 * m * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} \\
& + 4876 * A * b^3 * c^3 * m * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 4224 * B * b^3 * c^3 * m * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} \\
& + 17040 * B * a^3 * c^2 * d * m * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 51120 * A * a^2 * b * c^2 * d * m * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} \\
& + 43884 * B * a^2 * b * c^2 * d * m * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 43884 * A * a * b^2 * c^2 * d * m * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} \\
& + 38016 * B * a * b^2 * c^2 * d * m * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 12672 * A * b^3 * c^2 * d * m * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} \\
& + 11100 * B * b^3 * c^2 * d * m * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 17040 * A * a^3 * c * d^2 * m * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} \\
& + 14628 * B * a^3 * c * d^2 * m * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 43884 * A * a^2 * b * c * d^2 * m * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} \\
& + 38016 * B * a^2 * b * c * d^2 * m * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 38016 * A * a * b^2 * c * d^2 * m * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} \\
& + 33300 * B * a * b^2 * c * d^2 * m * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 11100 * A * b^3 * c * d^2 * m * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} \\
& + 9840 * B * b^3 * c * d^2 * m * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 4876 * A * a^3 * d^3 * m * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} \\
& + 4224 * B * a^3 * d^3 * m * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 12672 * A * a^2 * b * d^3 * m * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} \\
& + 11100 * B * a^2 * b * d^3 * m * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 11100 * A * a * b^2 * d^3 * m * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} \\
& + 9840 * B * a * b^2 * d^3 * m * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 3280 * A * b^3 * d^3 * m * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} \\
& + 2940 * B * b^3 * d^3 * m * n^3 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 11787 * B * a^2 * b * c^3 * n^4 * x^x^{(2n)} * e^{(m \log(e) + m \log(x))} + 11787 *
\end{aligned}$$

$A*a*b^2*c^3*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 9336*B*a*b^2*c^3*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3112*A*b^3*c^3*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 2545*B*b^3*c^3*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 11787*B*a^3*c^2*d*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 35361*A*a^2*b*c^2*d*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 28008*B*a^2*b*c^2*d*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 28008*A*a*b^2*c^2*d*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 22905*B*a*b^2*c^2*d*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 7635*A*b^3*c^2*d*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 6432*B*b^3*c^2*d*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 11787*A*a^3*c*d^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 9336*B*a^3*c*d^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 28008*A*a^2*b*c*d^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 22905*B*a^2*b*c*d^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 22905*A*a*b^2*c*d^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 19296*B*a*b^2*c*d^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 6432*A*b^3*c*d^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 5547*B*b^3*c*d^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3112*A*a^3*d^3*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 2545*B*a^3*d^3*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 7635*A*a^2*b*d^3*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 6432*B*a^2*b*d^3*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 6432*A*a*b^2*d^3*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 5547*B*a*b^2*d^3*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1849*A*b^3*d^3*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1624*B*b^3*d^3*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 35*B*a^3*c^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 105*A*a^2*b*c^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 105*B*a^2*b*c^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 105*A*a*b^2*c^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 35*A*b^3*c^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 35*B*b^3*c^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 105*A*a^3*c^2*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 105*B*a^3*c^2*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 315*A*a^2*b*c^2*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 315*B*a^2*b*c^2*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 315*A*a*b^2*c^2*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 315*B*a*b^2*c^2*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 105*A*b^3*c^2*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 105*B*b^3*c^2*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 105*A*a^3*c*d^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 105*B*a^3*c*d^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 315*A*a^2*b*c*d^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 315*B*a^2*b*c*d^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 315*A*a*b^2*c*d^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 315*B*a*b^2*c*d^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 105*A*b^3*c*d^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 105*B*b^3*c*d^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 35*A*a^3*d^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 35*B*a^3*d^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 105*A*a^2*b*d^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 105*B*a^2*b*d^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 105*A*a*b^2*d^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 35*A*b^3*d^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 35*B*b^3*d^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 540*B*a^3*c^3*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1620*A*a^2*b*c^3*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1560*B*a^2*b*c^3*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1560*A*a*b^2*c^3*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 150$

$$\begin{aligned}
& ^2*b*c^3*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 17040*A*a*b^2*c^3*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 14628*B*a*b^2*c^3*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 4876*A*b^3*c^3*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 4224*B*b^3*c^3*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 19980*A*a^3*c^2*d*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 17040*B*a^3*c^2*d*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 51120*A*a^2*b*c^2*d*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 43884*B*a^2*b*c^2*d*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 43884*A*a*b^2*c^2*d*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 38016*B*a*b^2*c^2*d*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 12672*A*b^3*c^2*d*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 11100*B*b^3*c^2*d*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 17040*A*a^3*c*d^2*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 14628*B*a^3*c*d^2*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 43884*A*a^2*b*c*d^2*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 38016*B*a^2*b*c*d^2*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 38016*A*a*b^2*c*d^2*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 33300*B*a*b^2*c*d^2*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 11100*A*b^3*c*d^2*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 9840*B*b^3*c*d^2*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 4876*A*a^3*d^3*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 4224*B*a^3*d^3*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 12672*A*a^2*b*d^3*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 11100*B*a^2*b*d^3*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 11100*A*a*b^2*d^3*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 9840*B*a*b^2*d^3*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3280*A*b^3*d^3*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2940*B*b^3*d^3*m^n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5104*B*a^3*c^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15312*A*a^2*b*c^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 11787*B*a^2*b*c^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 11787*A*a*b^2*c^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 9336*B*a*b^2*c^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3112*A*b^3*c^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2545*B*b^3*c^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15312*A*a^3*c^2*d*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 11787*B*a^3*c^2*d*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 35361*A*a^2*b*c^2*d*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 28008*B*a^2*b*c^2*d*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 28008*A*a*b^2*c^2*d*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 22905*B*a*b^2*c^2*d*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 7635*A*b^3*c^2*d*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 6432*B*b^3*c^2*d*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 11787*A*a^3*c*d^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 9336*B*a^3*c*d^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 28008*A*a^2*b*c*d^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 22905*B*a^2*b*c*d^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 22905*A*a*b^2*c*d^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 19296*B*a*b^2*c*d^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 6432*A*b^3*c*d^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5547*B*b^3*c*d^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3112*A*a^3*d^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 2545*B*a^3*d^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 7635*A*a^2*b*d^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 6432*B*a^2*b*d^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 6432*A*a*b^2*d^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5547*B*a*b^2*d^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1849*A*b^3*d^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1624*B*b^3*d^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 35*A*a^3*c^3*m^4*x*e^{(m*\log(e) + m*\log(x))} + 35*B*a^3*c^3*m^4*x*e^{(m*\log(e) + m*\log(x))} + 105*A*a^2*b*c^3
\end{aligned}$$

$$\begin{aligned}
& m^4 x e^{(m \log(e) + m \log(x))} + 105 B a^2 b c^3 m^4 x e^{(m \log(e) + m \log(x))} + 105 A a b^2 c^3 m^4 x e^{(m \log(e) + m \log(x))} + 105 B a b^2 c^3 m^4 x e^{(m \log(e) + m \log(x))} + 35 A b^3 c^3 m^4 x e^{(m \log(e) + m \log(x))} + 35 B b^3 c^3 m^4 x e^{(m \log(e) + m \log(x))} + 105 A a^3 c^2 d m^4 x e^{(m \log(e) + m \log(x))} + 105 B a^3 c^2 d m^4 x e^{(m \log(e) + m \log(x))} + 315 A a^2 b c^2 d m^4 x e^{(m \log(e) + m \log(x))} + 315 B a^2 b c^2 d m^4 x e^{(m \log(e) + m \log(x))} + 315 A a b^2 c^2 d m^4 x e^{(m \log(e) + m \log(x))} + 315 B a b^2 c^2 d m^4 x e^{(m \log(e) + m \log(x))} + 105 A b^3 c^2 d m^4 x e^{(m \log(e) + m \log(x))} + 105 B b^3 c^2 d m^4 x e^{(m \log(e) + m \log(x))} + 105 A a^3 c d^2 m^4 x e^{(m \log(e) + m \log(x))} + 315 A a^2 b c d^2 m^4 x e^{(m \log(e) + m \log(x))} + 315 B a^2 b c d^2 m^4 x e^{(m \log(e) + m \log(x))} + 315 A a b^2 c d^2 m^4 x e^{(m \log(e) + m \log(x))} + 315 B a b^2 c d^2 m^4 x e^{(m \log(e) + m \log(x))} + 105 A b^3 c d^2 m^4 x e^{(m \log(e) + m \log(x))} + 105 B b^3 c d^2 m^4 x e^{(m \log(e) + m \log(x))} + 35 A a^3 d^3 m^4 x e^{(m \log(e) + m \log(x))} + 35 B a^3 d^3 m^4 x e^{(m \log(e) + m \log(x))} + 105 A a^2 b d^3 m^4 x e^{(m \log(e) + m \log(x))} + 105 B a^2 b d^3 m^4 x e^{(m \log(e) + m \log(x))} + 105 A a b^2 d^3 m^4 x e^{(m \log(e) + m \log(x))} + 105 B a b^2 d^3 m^4 x e^{(m \log(e) + m \log(x))} + 35 A b^3 d^3 m^4 x e^{(m \log(e) + m \log(x))} + 35 B b^3 d^3 m^4 x e^{(m \log(e) + m \log(x))} + 560 A a^3 c^3 m^3 n x e^{(m \log(e) + m \log(x))} + 540 B a^3 c^3 m^3 n x e^{(m \log(e) + m \log(x))} + 1620 A a^2 b c^3 m^3 n x e^{(m \log(e) + m \log(x))} + 1560 B a^2 b c^3 m^3 n x e^{(m \log(e) + m \log(x))} + 1560 A a b^2 c^3 m^3 n x e^{(m \log(e) + m \log(x))} + 1500 B a b^2 c^3 m^3 n x e^{(m \log(e) + m \log(x))} + 500 A b^3 c^3 m^3 n x e^{(m \log(e) + m \log(x))} + 480 B b^3 c^3 m^3 n x e^{(m \log(e) + m \log(x))} + 1620 A a^3 c^2 d m^3 n x e^{(m \log(e) + m \log(x))} + 1560 B a^3 c^2 d m^3 n x e^{(m \log(e) + m \log(x))} + 4680 A a^2 b c^2 d m^3 n x e^{(m \log(e) + m \log(x))} + 4500 B a^2 b c^2 d m^3 n x e^{(m \log(e) + m \log(x))} + 4500 A a b^2 c^2 d m^3 n x e^{(m \log(e) + m \log(x))} + 4320 B a b^2 c^2 d m^3 n x e^{(m \log(e) + m \log(x))} + 4320 A a b^2 c^2 d m^3 n x e^{(m \log(e) + m \log(x))} + 1440 A b^3 c^2 d m^3 n x e^{(m \log(e) + m \log(x))} + 1380 B b^3 c^2 d m^3 n x e^{(m \log(e) + m \log(x))} + 1560 A a^3 c d^2 m^3 n x e^{(m \log(e) + m \log(x))} + 1500 B a^3 c d^2 m^3 n x e^{(m \log(e) + m \log(x))} + 4500 A a^2 b c d^2 m^3 n x e^{(m \log(e) + m \log(x))} + 4320 B a^2 b c d^2 m^3 n x e^{(m \log(e) + m \log(x))} + 4320 A a b^2 c d^2 m^3 n x e^{(m \log(e) + m \log(x))} + 4140 B a b^2 c d^2 m^3 n x e^{(m \log(e) + m \log(x))} + 1380 A b^3 c d^2 m^3 n x e^{(m \log(e) + m \log(x))} + 1320 B b^3 c d^2 m^3 n x e^{(m \log(e) + m \log(x))} + 500 A a^3 d^3 m^3 n x e^{(m \log(e) + m \log(x))} + 480 B a^3 d^3 m^3 n x e^{(m \log(e) + m \log(x))} + 1440 A a^2 b d^3 m^3 n x e^{(m \log(e) + m \log(x))} + 1380 B a^2 b d^3 m^3 n x e^{(m \log(e) + m \log(x))} + 1380 A a b^2 d^3 m^3 n x e^{(m \log(e) + m \log(x))} + 1320 B a b^2 d^3 m^3 n x e^{(m \log(e) + m \log(x))} + 440 A b^3 d^3 m^3 n x e^{(m \log(e) + m \log(x))} + 420 B b^3 d^3 m^3 n x e^{(m \log(e) + m \log(x))} + 3220 A a^3 c^3 m^2 n^2 x e^{(m \log(e) + m \log(x))} + 2950 B a^3 c^3 m^2 n^2 x e^{(m \log(e) + m \log(x))} + 8850 A a^2 b c^3 m^2 n^2 x e^{(m \log(e) + m \log(x))} + 8100 B a^2 b c^3 m^2 n^2 x e^{(m \log(e) + m \log(x))} + 8100 A a b^2 c^3 m^2 n^2 x e^{(m \log(e) + m \log(x))} + 7410 B a b^2 c^3 m^2 n^2 x e^{(m \log(e) + m \log(x))} + 2470 A b^3 c^3
\end{aligned}$$

$m^2n^2xe^{(m\log(e) + m\log(x))} + 2260Bb^3c^3m^2n^2xe^{(m\log(e) + m\log(x))} + 8850Aa^3c^2d^2m^2n^2xe^{(m\log(e) + m\log(x))} + 8100Ba^3c^2d^2m^2n^2xe^{(m\log(e) + m\log(x))} + 24300Aa^2b^2c^2d^2m^2n^2xe^{(m\log(e) + m\log(x))} + 22230Ba^2b^2c^2d^2m^2n^2xe^{(m\log(e) + m\log(x))} + 22230Aa^2b^2c^2d^2m^2n^2xe^{(m\log(e) + m\log(x))} + 20340Bab^2c^2d^2m^2n^2xe^{(m\log(e) + m\log(x))} + 6780Ab^3c^2d^2m^2n^2xe^{(m\log(e) + m\log(x))} + 6210Bb^3c^2d^2m^2n^2xe^{(m\log(e) + m\log(x))} + 8100Aa^3c^2d^2m^2n^2xe^{(m\log(e) + m\log(x))} + 7410Ba^3c^2d^2m^2n^2xe^{(m\log(e) + m\log(x))} + 22230Aa^2b^2c^2d^2m^2n^2xe^{(m\log(e) + m\log(x))} + 20340Ba^2b^2c^2d^2m^2n^2xe^{(m\log(e) + m\log(x))} + 20340Aa^2b^2c^2d^2m^2n^2xe^{(m\log(e) + m\log(x))} + 18630Bab^2c^2d^2m^2n^2xe^{(m\log(e) + m\log(x))} + 6210Ab^3c^2d^2m^2n^2xe^{(m\log(e) + m\log(x))} + 5700Bb^3c^2d^2m^2n^2xe^{(m\log(e) + m\log(x))} + 2470Aa^3d^3m^2n^2xe^{(m\log(e) + m\log(x))} + 2260Ba^3d^3m^2n^2xe^{(m\log(e) + m\log(x))} + 6780Aa^2b^2d^3m^2n^2xe^{(m\log(e) + m\log(x))} + 6210Ba^2b^2d^3m^2n^2xe^{(m\log(e) + m\log(x))} + 6210Aa^2b^2d^3m^2n^2xe^{(m\log(e) + m\log(x))} + 5700Bab^2d^3m^2n^2xe^{(m\log(e) + m\log(x))} + 1900Ab^3d^3m^2n^2xe^{(m\log(e) + m\log(x))} + 1750Bb^3d^3m^2n^2xe^{(m\log(e) + m\log(x))} + 7840Aa^3c^3m^2n^3xe^{(m\log(e) + m\log(x))} + 6660Ba^3c^3m^2n^3xe^{(m\log(e) + m\log(x))} + 19980Aa^2b^2c^3m^2n^3xe^{(m\log(e) + m\log(x))} + 17040Ba^2b^2c^3m^2n^3xe^{(m\log(e) + m\log(x))} + 17040Aa^2b^2c^3m^2n^3xe^{(m\log(e) + m\log(x))} + 14628Bab^2c^3m^2n^3xe^{(m\log(e) + m\log(x))} + 4876Ab^3c^3m^2n^3xe^{(m\log(e) + m\log(x))} + 4224Bb^3c^3m^2n^3xe^{(m\log(e) + m\log(x))} + 19980Aa^3c^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 17040Ba^3c^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 51120Aa^2b^2c^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 43884Ba^2b^2c^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 43884Aa^2b^2c^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 38016Bab^2c^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 12672Ab^3c^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 11100Bb^3c^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 17040Aa^3c^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 14628Ba^3c^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 43884Aa^2b^2c^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 38016Ba^2b^2c^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 33300Bab^2c^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 11100Ab^3c^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 9840Bb^3c^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 4876Aa^3d^3m^2n^3xe^{(m\log(e) + m\log(x))} + 4224Ba^3d^3m^2n^3xe^{(m\log(e) + m\log(x))} + 12672Aa^2b^2d^3m^2n^3xe^{(m\log(e) + m\log(x))} + 11100Ba^2b^2d^3m^2n^3xe^{(m\log(e) + m\log(x))} + 11100Aa^2b^2d^3m^2n^3xe^{(m\log(e) + m\log(x))} + 9840Bab^2d^3m^2n^3xe^{(m\log(e) + m\log(x))} + 3280Ab^3d^3m^2n^3xe^{(m\log(e) + m\log(x))} + 2940Bb^3d^3m^2n^3xe^{(m\log(e) + m\log(x))} + 6769Aa^3c^3n^4xe^{(m\log(e) + m\log(x))} + 5104Ba^3c^3n^4xe^{(m\log(e) + m\log(x))} + 15312Aa^2b^2c^3n^4xe^{(m\log(e) + m\log(x))} + 11787Ba^2b^2c^3n^4xe^{(m\log(e) + m\log(x))} + 11787Aa^2b^2c^3n^4xe^{(m\log(e) + m\log(x))} + 9336Bab^2c^3n^4xe^{(m\log(e) + m\log(x))} + 3112Ab^3c^3n^4xe^{(m\log(e) + m\log(x))} + 2545*$

$B*b^3*c^3*n^4*x*e^{(m*\log(e) + m*\log(x))} + 15312*A*a^3*c^2*d*n^4*x*e^{(m*\log(e) + m*\log(x))} + 11787*B*a^3*c^2*d*n^4*x*e^{(m*\log(e) + m*\log(x))} + 35361*A*a^2*b*c^2*d*n^4*x*e^{(m*\log(e) + m*\log(x))} + 28008*B*a^2*b*c^2*d*n^4*x*e^{(m*\log(e) + m*\log(x))} + 28008*A*a*b^2*c^2*d*n^4*x*e^{(m*\log(e) + m*\log(x))} + 22905*B*a*b^2*c^2*d*n^4*x*e^{(m*\log(e) + m*\log(x))} + 7635*A*b^3*c^2*d*n^4*x*e^{(m*\log(e) + m*\log(x))} + 6432*B*b^3*c^2*d*n^4*x*e^{(m*\log(e) + m*\log(x))} + 11787*A*a^3*c*d^2*n^4*x*e^{(m*\log(e) + m*\log(x))} + 9336*B*a^3*c*d^2*n^4*x*e^{(m*\log(e) + m*\log(x))} + 28008*A*a^2*b*c*d^2*n^4*x*e^{(m*\log(e) + m*\log(x))} + 22905*B*a^2*b*c*d^2*n^4*x*e^{(m*\log(e) + m*\log(x))} + 22905*A*a*b^2*c*d^2*n^4*x*e^{(m*\log(e) + m*\log(x))} + 19296*B*a*b^2*c*d^2*n^4*x*e^{(m*\log(e) + m*\log(x))} + 6432*A*b^3*c*d^2*n^4*x*e^{(m*\log(e) + m*\log(x))} + 5547*B*b^3*c*d^2*n^4*x*e^{(m*\log(e) + m*\log(x))} + 3112*A*a^3*d^3*n^4*x*e^{(m*\log(e) + m*\log(x))} + 2545*B*a^3*d^3*n^4*x*e^{(m*\log(e) + m*\log(x))} + 7635*A*a^2*b*d^3*n^4*x*e^{(m*\log(e) + m*\log(x))} + 6432*B*a^2*b*d^3*n^4*x*e^{(m*\log(e) + m*\log(x))} + 6432*A*a*b^2*d^3*n^4*x*e^{(m*\log(e) + m*\log(x))} + 5547*B*a*b^2*d^3*n^4*x*e^{(m*\log(e) + m*\log(x))} + 1849*A*b^3*d^3*n^4*x*e^{(m*\log(e) + m*\log(x))} + 1624*B*b^3*d^3*n^4*x*e^{(m*\log(e) + m*\log(x))} + 35*B*b^3*d^3*m^3*x*x^{(7*n)}*e^{(m*\log(e) + m*\log(x))} + 315*B*b^3*d^3*m^2*n*x*x^{(7*n)}*e^{(m*\log(e) + m*\log(x))} + 875*B*b^3*d^3*m*n^2*x*x^{(7*n)}*e^{(m*\log(e) + m*\log(x))} + 735*B*b^3*d^3*n^3*x*x^{(7*n)}*e^{(m*\log(e) + m*\log(x))} + 105*B*b^3*c*d^2*m^3*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 105*B*a*b^2*d^3*m^3*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 35*A*b^3*d^3*m^3*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 35*B*b^3*d^3*m^3*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 990*B*b^3*c*d^2*m^2*n*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 990*B*a*b^2*d^3*m^2*n*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 330*A*b^3*d^3*m^2*n*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 315*B*b^3*d^3*m^2*n*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 2850*B*b^3*c*d^2*m^n^2*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 2850*B*a*b^2*d^3*m^n^2*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 950*A*b^3*d^3*m^n^2*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 875*B*b^3*d^3*m^n^2*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 2460*B*b^3*c*d^2*n^3*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 2460*B*a*b^2*d^3*n^3*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 820*A*b^3*d^3*n^3*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 735*B*b^3*d^3*n^3*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 105*B*b^3*c^2*d*m^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 315*B*a*b^2*c*d^2*m^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 105*A*b^3*c*d^2*m^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 105*B*b^3*c*d^2*m^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 105*B*a^2*b*d^3*m^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 105*A*a*b^2*d^3*m^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 105*B*a*b^2*d^3*m^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 35*A*b^3*d^3*m^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 35*B*b^3*d^3*m^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 1035*B*b^3*c^2*d*m^2*n*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 3105*B*a*b^2*c*d^2*m^2*n*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 1035*A*b^3*c*d^2*m^2*n*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 990*B*b^3*c*d^2*m^2*n*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 1035*B*a^2*b*d^3*m^2*n*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 1035*A*a*b^2*d^3*m^2*n*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 990*B*a*b^2*d^3*m^2*n*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 330*A*b^3*d^3*m^2*n*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 315*B*b^3*d^3*m^2*n*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))}$

$$\begin{aligned}
&) + 3105*B*b^3*c^2*d*m^n^2*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 9315*B*a*b^2 \\
& *c*d^2*m^n^2*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 3105*A*b^3*c*d^2*m^n^2*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 2850*B*b^3*c*d^2*m^n^2*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 3105*B*a^2*b*d^3*m^n^2*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 3105*A*a*b^2*d^3*m^n^2*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 2850*B*a*b^2*d^3*m^n^2*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 950*A*b^3*d^3*m^n^2*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 875*B*b^3*d^3*m^n^2*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 2775*B*b^3*c^2*d*n^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 8325*B*a*b^2*c*d^2*n^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 2775*A*b^3*c*d^2*n^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 2460*B*b^3*c*d^2*n^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 2775*B*a^2*b*d^3*n^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 2775*A*a*b^2*d^3*n^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 2460*B*a*b^2*d^3*n^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 820*A*b^3*d^3*n^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 735*B*b^3*d^3*n^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 35*B*b^3*c^3*m^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 315*B*a*b^2*c^2*d*m^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 105*A*b^3*c^2*d*m^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 105*B*b^3*c^2*d*m^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 315*B*a^2*b*c*d^2*m^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 315*A*a*b^2*c*d^2*m^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 315*B*a*b^2*c*d^2*m^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 105*A*b^3*c*d^2*m^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 105*B*b^3*c*d^2*m^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 35*B*a^3*d^3*m^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 105*A*a^2*b*d^3*m^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 105*B*a^2*b*d^3*m^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 105*A*a*b^2*d^3*m^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 105*B*a*b^2*d^3*m^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 35*A*b^3*d^3*m^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 35*B*b^3*d^3*m^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 360*B*b^3*c^3*m^2*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3240*B*a*b^2*c^2*d*m^2*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 1080*A*b^3*c^2*d*m^2*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 1035*B*b^3*c^2*d*m^2*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3240*B*a^2*b*c*d^2*m^2*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3240*A*a*b^2*c*d^2*m^2*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3105*B*a*b^2*c*d^2*m^2*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 1035*A*b^3*c*d^2*m^2*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 990*B*b^3*c*d^2*m^2*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 360*B*a^3*d^3*m^2*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 1080*A*a^2*b*d^3*m^2*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 1035*B*a^2*b*d^3*m^2*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 1035*A*a*b^2*d^3*m^2*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 990*B*a*b^2*d^3*m^2*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 330*A*b^3*d^3*m^2*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 315*B*b^3*d^3*m^2*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 1130*B*b^3*c^3*m^n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 10170*B*a*b^2*c^2*d*m^n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3390*A*b^3*c^2*d*m^n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3105*B*b^3*c^2*d*m^n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 10170*B*a^2*b*c*d^2*m^n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 10170*A*a*b^2*c*d^2*m^n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 9315*B*a*b^2*c*d^2*m^n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3105*A*b^3*c*d^2*m^n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 2850*B*b^3*c*d^2*m^n^2*x
\end{aligned}$$

$$\begin{aligned}
& *x^{(4n)}e^{(m\log(e) + m\log(x))} + 1130*B*a^3*d^3*m^n^2*x*x^{(4n)}e^{(m\log(e) + m\log(x))} + 3390*A*a^2*b*d^3*m^n^2*x*x^{(4n)}e^{(m\log(e) + m\log(x))} + \\
& 3105*B*a^2*b*d^3*m^n^2*x*x^{(4n)}e^{(m\log(e) + m\log(x))} + 3105*A*a*b^2*d^3*m^n^2*x*x^{(4n)}e^{(m\log(e) + m\log(x))} + 2850*B*a*b^2*d^3*m^n^2*x*x^{(4n)} \\
&)e^{(m\log(e) + m\log(x))} + 950*A*b^3*d^3*m^n^2*x*x^{(4n)}e^{(m\log(e) + m\log(x))} + 875*B*b^3*d^3*m^n^2*x*x^{(4n)}e^{(m\log(e) + m\log(x))} + 1056*B*b^3 \\
& *c^3*n^3*x*x^{(4n)}e^{(m\log(e) + m\log(x))} + 9504*B*a*b^2*c^2*d^n^3*x*x^{(4n)}e^{(m\log(e) + m\log(x))} + 3168*A*b^3*c^2*d^n^3*x*x^{(4n)}e^{(m\log(e) + m \\
& *log(x))} + 2775*B*b^3*c^2*d^n^3*x*x^{(4n)}e^{(m\log(e) + m\log(x))} + 9504*B* \\
& a^2*b*c*d^2*n^3*x*x^{(4n)}e^{(m\log(e) + m\log(x))} + 9504*A*a*b^2*c*d^2*n^3* \\
& x*x^{(4n)}e^{(m\log(e) + m\log(x))} + 8325*B*a*b^2*c*d^2*n^3*x*x^{(4n)}e^{(m\log(e) + m\log(x))} + 2775*A*b^3*c*d^2*n^3*x*x^{(4n)}e^{(m\log(e) + m\log(x))} \\
& + 2460*B*b^3*c*d^2*n^3*x*x^{(4n)}e^{(m\log(e) + m\log(x))} + 1056*B*a^3*d^3*n \\
& ^3*x*x^{(4n)}e^{(m\log(e) + m\log(x))} + 3168*A*a^2*b*d^3*n^3*x*x^{(4n)}e^{(m\log(e) + m\log(x))} + 2775*B*a^2*b*d^3*n^3*x*x^{(4n)}e^{(m\log(e) + m\log(x))} \\
& + 2775*A*a*b^2*d^3*n^3*x*x^{(4n)}e^{(m\log(e) + m\log(x))} + 2460*B*a*b^2*d^3 \\
& *n^3*x*x^{(4n)}e^{(m\log(e) + m\log(x))} + 820*A*b^3*d^3*n^3*x*x^{(4n)}e^{(m\log(e) + m\log(x))} + 735*B*b^3*d^3*n^3*x*x^{(4n)}e^{(m\log(e) + m\log(x))} + \\
& 105*B*a*b^2*c^3*m^3*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 35*A*b^3*c^3*m^3*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 35*B*b^3*c^3*m^3*x*x^{(3n)}e^{(m\log(e) + \\
& m\log(x))} + 315*B*a^2*b*c^2*d*m^3*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 315*A \\
& *a*b^2*c^2*d*m^3*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 315*B*a*b^2*c^2*d*m^3* \\
& x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 105*A*b^3*c^2*d*m^3*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 105*B*b^3*c^2*d*m^3*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 10 \\
& 5*B*a^3*c*d^2*m^3*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 315*A*a^2*b*c*d^2*m^3 \\
& *x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 315*B*a^2*b*c*d^2*m^3*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 315*A*a*b^2*c*d^2*m^3*x*x^{(3n)}e^{(m\log(e) + m\log(x))} \\
& + 315*B*a*b^2*c*d^2*m^3*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 105*A*b^3*c*d^2 \\
& *m^3*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 105*B*b^3*c*d^2*m^3*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 35*A*a^3*d^3*m^3*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + \\
& 35*B*a^3*d^3*m^3*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 105*A*a^2*b*d^3*m^3*x \\
& *x^{(3n)}e^{(m\log(e) + m\log(x))} + 105*B*a^2*b*d^3*m^3*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 105 \\
& *B*a*b^2*d^3*m^3*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 35*A*b^3*d^3*m^3*x*x^{(3n)} \\
&)e^{(m\log(e) + m\log(x))} + 35*B*b^3*d^3*m^3*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 1125*B*a*b^2*c^3*m^2*n*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 375*A*b \\
& ^3*c^3*m^2*n*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 360*B*b^3*c^3*m^2*n*x*x^{(3n)} \\
&)e^{(m\log(e) + m\log(x))} + 3375*B*a^2*b*c^2*d*m^2*n*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 3375*A*a*b^2*c^2*d*m^2*n*x*x^{(3n)}e^{(m\log(e) + m\log(x))} \\
& + 3240*B*a*b^2*c^2*d*m^2*n*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 1080*A*b^3*c \\
& ^2*d*m^2*n*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 1035*B*b^3*c^2*d*m^2*n*x*x^{(3n)} \\
&)e^{(m\log(e) + m\log(x))} + 1125*B*a^3*c*d^2*m^2*n*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 3375*A*a^2*b*c*d^2*m^2*n*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + \\
& 3240*B*a^2*b*c*d^2*m^2*n*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 3240*A*a*b^2* \\
& c*d^2*m^2*n*x*x^{(3n)}e^{(m\log(e) + m\log(x))} + 3105*B*a*b^2*c*d^2*m^2*n*x*
\end{aligned}$$

$$\begin{aligned}
& x^{(3n)} e^{(m \log(e) + m \log(x))} + 1035 A^3 b^3 c^2 d^2 m^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + 990 B^3 b^3 c^2 d^2 m^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + \\
& 375 A^3 a^3 d^3 m^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + 360 B^3 a^3 d^3 m^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + 1080 A^2 b^3 d^3 m^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + \\
& 1035 B^2 a^3 d^3 m^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + 1035 A^2 a^2 b^2 d^3 m^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + 990 B^2 a^2 b^2 d^3 m^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + \\
& 330 A^3 b^3 d^3 m^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + 315 B^3 b^3 d^3 m^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + 3705 B^2 a^2 b^2 c^3 m^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + \\
& 1235 A^2 b^3 c^3 m^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + 1130 B^2 b^3 c^3 m^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + 11115 B^2 a^2 b^2 c^2 d^2 m^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + \\
& 11115 A^2 a^2 b^2 c^2 d^2 m^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + 10170 B^2 a^2 b^2 c^2 d^2 m^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + 3390 A^2 b^3 c^2 d^2 m^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + \\
& 3105 B^2 b^3 c^2 d^2 m^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + 3705 B^2 a^3 c^2 d^2 m^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + 11115 A^2 a^2 b^2 c^2 d^2 m^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + \\
& 10170 B^2 a^2 b^2 c^2 d^2 m^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + 10170 A^2 a^2 b^2 c^2 d^2 m^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + 9315 B^2 a^2 b^2 c^2 d^2 m^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + \\
& 3105 A^2 b^3 c^2 d^2 m^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + 2850 B^2 b^3 c^2 d^2 m^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + 1235 A^3 a^3 d^3 m^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + \\
& 1130 B^3 a^3 d^3 m^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + 3390 A^2 a^2 b^2 d^3 m^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + 3105 B^2 a^2 b^2 d^3 m^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + \\
& 3105 A^2 a^2 b^2 d^3 m^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + 2850 B^2 a^2 b^2 d^3 m^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + 950 A^2 b^3 d^3 m^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + \\
& 875 B^2 b^3 d^3 m^2 n^2 x^3 e^{(m \log(e) + m \log(x))} + 3657 B^2 a^2 b^2 c^3 n^3 x^3 e^{(m \log(e) + m \log(x))} + 1219 A^2 b^3 c^3 n^3 x^3 e^{(m \log(e) + m \log(x))} + \\
& 1056 B^2 b^3 c^3 n^3 x^3 e^{(m \log(e) + m \log(x))} + 10971 B^2 a^2 b^2 c^2 d^2 n^3 x^3 e^{(m \log(e) + m \log(x))} + 10971 A^2 a^2 b^2 c^2 d^2 n^3 x^3 e^{(m \log(e) + m \log(x))} + \\
& 9504 B^2 a^2 b^2 c^2 d^2 n^3 x^3 e^{(m \log(e) + m \log(x))} + 3168 A^2 b^3 c^2 d^2 n^3 x^3 e^{(m \log(e) + m \log(x))} + 2775 B^2 b^3 c^2 d^2 n^3 x^3 e^{(m \log(e) + m \log(x))} + \\
& 3657 B^2 a^3 c^2 d^2 n^3 x^3 e^{(m \log(e) + m \log(x))} + 10971 A^2 a^2 b^2 c^2 d^2 n^3 x^3 e^{(m \log(e) + m \log(x))} + 9504 B^2 a^2 b^2 c^2 d^2 n^3 x^3 e^{(m \log(e) + m \log(x))} + \\
& 9504 A^2 a^2 b^2 c^2 d^2 n^3 x^3 e^{(m \log(e) + m \log(x))} + 8325 B^2 a^2 b^2 c^2 d^2 n^3 x^3 e^{(m \log(e) + m \log(x))} + 2775 A^2 b^3 c^2 d^2 n^3 x^3 e^{(m \log(e) + m \log(x))} + \\
& 2460 B^2 b^3 c^2 d^2 n^3 x^3 e^{(m \log(e) + m \log(x))} + 1219 A^2 a^3 d^3 n^3 x^3 e^{(m \log(e) + m \log(x))} + 1056 B^2 a^3 d^3 n^3 x^3 e^{(m \log(e) + m \log(x))} + \\
& 3168 A^2 a^2 b^2 d^3 n^3 x^3 e^{(m \log(e) + m \log(x))} + 2775 B^2 a^2 b^2 d^3 n^3 x^3 e^{(m \log(e) + m \log(x))} + 2775 A^2 a^2 b^2 d^3 n^3 x^3 e^{(m \log(e) + m \log(x))} + \\
& 2460 B^2 a^2 b^2 d^3 n^3 x^3 e^{(m \log(e) + m \log(x))} + 820 A^2 b^3 d^3 n^3 x^3 e^{(m \log(e) + m \log(x))} + 735 B^2 b^3 d^3 n^3 x^3 e^{(m \log(e) + m \log(x))} + 105 B^2 a^2 b^2 c^3 m^3 x^3 e^{(2n)} + \\
& 105 A^2 a^2 b^2 c^3 m^3 x^3 e^{(2n)}
\end{aligned}$$

$$\begin{aligned}
& (m \log(e) + m \log(x)) + 105 * B * a * b^2 * c^3 * m^3 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 35 * A * b^3 * c^3 * m^3 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 35 * B * b^3 * c^3 * m^3 * \\
& x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 105 * B * a^3 * c^2 * d * m^3 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 315 * A * a^2 * b * c^2 * d * m^3 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 315 * B * a^2 * b * c^2 * d * \\
& m^3 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 315 * B * a * b^2 * c^2 * d * \\
& m^3 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 105 * A * b^3 * c^2 * d * m^3 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 105 * B * b^3 * c^2 * d * m^3 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 105 * A * a^3 * c * d^2 * \\
& m^3 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 105 * B * a^3 * c * d^2 * m^3 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 315 * A * a^2 * b * c * d^2 * m^3 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 315 * B * a^2 * b * c * d^2 * m^3 * x * x^{(2 * n)} * \\
& e^{(m \log(e) + m \log(x))} + 315 * A * a * b^2 * c * d^2 * m^3 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 315 * B * a * b^2 * c * d^2 * m^3 * x * x^{(2 * n)} * \\
& e^{(m \log(e) + m \log(x))} + 105 * A * b^3 * c * d^2 * m^3 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 105 * B * b^3 * c * d^2 * m^3 * x * x^{(2 * n)} * \\
& e^{(m \log(e) + m \log(x))} + 35 * A * a^3 * d^3 * m^3 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 35 * B * a^3 * d^3 * m^3 * x * x^{(2 * n)} * \\
& e^{(m \log(e) + m \log(x))} + 105 * A * a^2 * b * d^3 * m^3 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 105 * B * a^2 * b * d^3 * m^3 * x * x^{(2 * n)} * \\
& e^{(m \log(e) + m \log(x))} + 105 * A * a * b^2 * d^3 * m^3 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 105 * B * a * b^2 * d^3 * m^3 * x * x^{(2 * n)} * \\
& e^{(m \log(e) + m \log(x))} + 35 * A * b^3 * d^3 * m^3 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 35 * B * b^3 * d^3 * m^3 * x * x^{(2 * n)} * \\
& e^{(m \log(e) + m \log(x))} + 1170 * B * a^2 * b * c^3 * m^2 * n * \\
& x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 1170 * A * a * b^2 * c^3 * m^2 * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 1125 * B * a * b^2 * c^3 * m^2 * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 375 * A * b^3 * c^3 * m^2 * n * x * x^{(2 * n)} * \\
& e^{(m \log(e) + m \log(x))} + 360 * B * b^3 * c^3 * m^2 * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 1170 * B * a^3 * c^2 * d * m^2 * n * x * x^{(2 * n)} * \\
& e^{(m \log(e) + m \log(x))} + 3510 * A * a^2 * b * c^2 * d * m^2 * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 3375 * B * a^2 * b * c^2 * d * m^2 * n * x * x^{(2 * n)} * \\
& e^{(m \log(e) + m \log(x))} + 3375 * A * a * b^2 * c^2 * d * m^2 * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 3240 * B * a * b^2 * c^2 * \\
& d * m^2 * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 1080 * A * b^3 * c^2 * d * m^2 * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 1035 * B * b^3 * c^2 * d * m^2 * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 1170 * A * a^3 * c * d^2 * m^2 * n * x * x^{(2 * n)} * \\
& e^{(m \log(e) + m \log(x))} + 1125 * B * a^3 * c * d^2 * m^2 * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 3375 * A * a^2 * b * c * d^2 * \\
& m^2 * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 3240 * B * a^2 * b * c * d^2 * m^2 * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 3240 * A * a * b^2 * c * d^2 * m^2 * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 3105 * B * a * b^2 * c * d^2 * m^2 * n * x * x^{(2 * n)} * \\
& e^{(m \log(e) + m \log(x))} + 1035 * A * b^3 * c * d^2 * m^2 * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 990 * B * b^3 * c * d^2 * \\
& m^2 * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 375 * A * a^3 * d^3 * m^2 * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 360 * B * a^3 * d^3 * m^2 * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 1080 * A * a^2 * b * d^3 * m^2 * n * x * x^{(2 * n)} * \\
& e^{(m \log(e) + m \log(x))} + 1035 * B * a^2 * b * d^3 * m^2 * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 1035 * A * a * b^2 * d^3 * m^2 * n * x * x^{(2 * n)} * \\
& e^{(m \log(e) + m \log(x))} + 990 * B * a * b^2 * d^3 * m^2 * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 330 * A * b^3 * d^3 * m^2 * n * x * x^{(2 * n)} * \\
& e^{(m \log(e) + m \log(x))} + 315 * B * b^3 * d^3 * m^2 * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 4050 * B * a^2 * b * c^3 * m * n^2 * x * \\
& x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 4050 * A * a * b^2 * c^3 * m * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 3705 * B * a * b^2 * c^3 * m * n^2 * x * x^{(2 * n)} * \\
& e^{(m \log(e) + m \log(x))} + 1235 * A * b^3 * c^3 * m * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 1130 * B * b^3 * c^3 * m * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))}
\end{aligned}$$

$$\begin{aligned}
& a^3c^2d^3m^3xxx^n e^{(m\log(e) + m\log(x))} + 105Ba^3c^2d^3m^3xxx^n e^{(m\log(e) + m\log(x))} \\
& + 315Aa^2b^3c^2d^3m^3xxx^n e^{(m\log(e) + m\log(x))} + 315B^3a^2b^3c^2d^3m^3xxx^n e^{(m\log(e) + m\log(x))} \\
& + 315A^3a^2b^3c^2d^3m^3xxx^n e^{(m\log(e) + m\log(x))} + 315B^3a^2b^3c^2d^3m^3xxx^n e^{(m\log(e) + m\log(x))} \\
& + 105A^3b^3c^2d^3m^3xxx^n e^{(m\log(e) + m\log(x))} + 105B^3b^3c^2d^3m^3xxx^n e^{(m\log(e) + m\log(x))} \\
& + 105A^3a^3c^2d^3m^3xxx^n e^{(m\log(e) + m\log(x))} + 105B^3a^3c^2d^3m^3xxx^n e^{(m\log(e) + m\log(x))} \\
& + 315A^3a^2b^3c^2d^3m^3xxx^n e^{(m\log(e) + m\log(x))} + 315B^3a^2b^3c^2d^3m^3xxx^n e^{(m\log(e) + m\log(x))} \\
& + 315A^3a^2b^3c^2d^3m^3xxx^n e^{(m\log(e) + m\log(x))} + 315B^3a^2b^3c^2d^3m^3xxx^n e^{(m\log(e) + m\log(x))} \\
& + 105A^3b^3c^2d^3m^3xxx^n e^{(m\log(e) + m\log(x))} + 105B^3b^3c^2d^3m^3xxx^n e^{(m\log(e) + m\log(x))} \\
& + 35A^3a^3d^3m^3xxx^n e^{(m\log(e) + m\log(x))} + 35B^3a^3d^3m^3xxx^n e^{(m\log(e) + m\log(x))} \\
& + 105B^3a^2b^3d^3m^3xxx^n e^{(m\log(e) + m\log(x))} + 105A^3a^2b^3d^3m^3xxx^n e^{(m\log(e) + m\log(x))} \\
& + 35A^3b^3d^3m^3xxx^n e^{(m\log(e) + m\log(x))} + 35B^3b^3d^3m^3xxx^n e^{(m\log(e) + m\log(x))} \\
& + 405B^3a^3c^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} + 1215A^3a^2b^3c^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} \\
& + 1170B^3a^2b^3c^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} + 1170A^3a^2b^3c^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} \\
& + 1125B^3a^2b^3c^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} + 375A^3b^3c^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} \\
& + 360B^3b^3c^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} + 1215A^3a^3c^2d^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} \\
& + 1170B^3a^3c^2d^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} + 3510A^3a^2b^3c^2d^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} \\
& + 3375B^3a^2b^3c^2d^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} + 3375A^3a^2b^3c^2d^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} \\
& + 3240B^3a^2b^3c^2d^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} + 3240A^3a^2b^3c^2d^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} \\
& + 1080A^3b^3c^2d^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} + 1035B^3b^3c^2d^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} \\
& + 1170A^3a^3c^2d^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} + 1125B^3a^3c^2d^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} \\
& + 3375A^3a^2b^3c^2d^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} + 3240B^3a^2b^3c^2d^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} \\
& + 3240A^3a^2b^3c^2d^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} + 3105B^3a^2b^3c^2d^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} \\
& + 1035A^3b^3c^2d^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} + 990B^3b^3c^2d^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} \\
& + 375A^3a^3d^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} + 360B^3a^3d^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} \\
& + 1080A^3a^2b^3d^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} + 1035B^3a^2b^3d^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} \\
& + 1035A^3a^2b^3d^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} + 990B^3a^2b^3d^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} \\
& + 330A^3b^3d^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} + 315B^3b^3d^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} \\
& + 1475B^3a^3c^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} + 4425A^3a^2b^3c^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} \\
& + 4050B^3a^2b^3c^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} + 4050A^3a^2b^3c^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} \\
& + 3705B^3a^2b^3c^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} + 1235A^3b^3c^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} \\
& + 1130B^3b^3c^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))} + 4425A^3a^3c^2d^3m^2n^2xxx^n e^{(m\log(e) + m\log(x))}
\end{aligned}$$

+ 4050*B*a^3*c^2*d*m*n^2*x*x^n*e^(m*log(e) + m*log(x)) + 12150*A*a^2*b*c^2
 *d*m*n^2*x*x^n*e^(m*log(e) + m*log(x)) + 11115*B*a^2*b*c^2*d*m*n^2*x*x^n*e^(
 m*log(e) + m*log(x)) + 11115*A*a*b^2*c^2*d*m*n^2*x*x^n*e^(m*log(e) + m*log
 (x)) + 10170*B*a*b^2*c^2*d*m*n^2*x*x^n*e^(m*log(e) + m*log(x)) + 3390*A*b^3
 *c^2*d*m*n^2*x*x^n*e^(m*log(e) + m*log(x)) + 3105*B*b^3*c^2*d*m*n^2*x*x^n*e
 ^ (m*log(e) + m*log(x)) + 4050*A*a^3*c*d^2*m*n^2*x*x^n*e^(m*log(e) + m*log(x
)) + 3705*B*a^3*c*d^2*m*n^2*x*x^n*e^(m*log(e) + m*log(x)) + 11115*A*a^2*b*c
 *d^2*m*n^2*x*x^n*e^(m*log(e) + m*log(x)) + 10170*B*a^2*b*c*d^2*m*n^2*x*x^n*
 e^(m*log(e) + m*log(x)) + 10170*A*a*b^2*c*d^2*m*n^2*x*x^n*e^(m*log(e) + m*l
 og(x)) + 9315*B*a*b^2*c*d^2*m*n^2*x*x^n*e^(m*log(e) + m*log(x)) + 3105*A*b^
 3*c*d^2*m*n^2*x*x^n*e^(m*log(e) + m*log(x)) + 2850*B*b^3*c*d^2*m*n^2*x*x^n*
 e^(m*log(e) + m*log(x)) + 1235*A*a^3*d^3*m*n^2*x*x^n*e^(m*log(e) + m*log(x)
) + 1130*B*a^3*d^3*m*n^2*x*x^n*e^(m*log(e) + m*log(x)) + 3390*A*a^2*b*d^3*m
 *n^2*x*x^n*e^(m*log(e) + m*log(x)) + 3105*B*a^2*b*d^3*m*n^2*x*x^n*e^(m*log(
 e) + m*log(x)) + 3105*A*a*b^2*d^3*m*n^2*x*x^n*e^(m*log(e) + m*log(x)) + 285
 0*B*a*b^2*d^3*m*n^2*x*x^n*e^(m*log(e) + m*log(x)) + 950*A*b^3*d^3*m*n^2*x*x
 ^n*e^(m*log(e) + m*log(x)) + 875*B*b^3*d^3*m*n^2*x*x^n*e^(m*log(e) + m*log(
 x)) + 1665*B*a^3*c^3*n^3*x*x^n*e^(m*log(e) + m*log(x)) + 4995*A*a^2*b*c^3*n
 ^3*x*x^n*e^(m*log(e) + m*log(x)) + 4260*B*a^2*b*c^3*n^3*x*x^n*e^(m*log(e) +
 m*log(x)) + 4260*A*a*b^2*c^3*n^3*x*x^n*e^(m*log(e) + m*log(x)) + 3657*B*a*
 b^2*c^3*n^3*x*x^n*e^(m*log(e) + m*log(x)) + 1219*A*b^3*c^3*n^3*x*x^n*e^(m*l
 og(e) + m*log(x)) + 1056*B*b^3*c^3*n^3*x*x^n*e^(m*log(e) + m*log(x)) + 4995
 *A*a^3*c^2*d*n^3*x*x^n*e^(m*log(e) + m*log(x)) + 4260*B*a^3*c^2*d*n^3*x*x^n
 *e^(m*log(e) + m*log(x)) + 12780*A*a^2*b*c^2*d*n^3*x*x^n*e^(m*log(e) + m*lo
 g(x)) + 10971*B*a^2*b*c^2*d*n^3*x*x^n*e^(m*log(e) + m*log(x)) + 10971*A*a*b
 ^2*c^2*d*n^3*x*x^n*e^(m*log(e) + m*log(x)) + 9504*B*a*b^2*c^2*d*n^3*x*x^n*e
 ^ (m*log(e) + m*log(x)) + 3168*A*b^3*c^2*d*n^3*x*x^n*e^(m*log(e) + m*log(x))
 + 2775*B*b^3*c^2*d*n^3*x*x^n*e^(m*log(e) + m*log(x)) + 4260*A*a^3*c*d^2*n^
 3*x*x^n*e^(m*log(e) + m*log(x)) + 3657*B*a^3*c*d^2*n^3*x*x^n*e^(m*log(e) +
 m*log(x)) + 10971*A*a^2*b*c*d^2*n^3*x*x^n*e^(m*log(e) + m*log(x)) + 9504*B*
 a^2*b*c*d^2*n^3*x*x^n*e^(m*log(e) + m*log(x)) + 9504*A*a*b^2*c*d^2*n^3*x*x^
 n*e^(m*log(e) + m*log(x)) + 8325*B*a*b^2*c*d^2*n^3*x*x^n*e^(m*log(e) + m*lo
 g(x)) + 2775*A*b^3*c*d^2*n^3*x*x^n*e^(m*log(e) + m*log(x)) + 2460*B*b^3*c*d
 ^2*n^3*x*x^n*e^(m*log(e) + m*log(x)) + 1219*A*a^3*d^3*n^3*x*x^n*e^(m*log(e)
 + m*log(x)) + 1056*B*a^3*d^3*n^3*x*x^n*e^(m*log(e) + m*log(x)) + 3168*A*a^
 2*b*d^3*n^3*x*x^n*e^(m*log(e) + m*log(x)) + 2775*B*a^2*b*d^3*n^3*x*x^n*e^(m
 *log(e) + m*log(x)) + 2775*A*a*b^2*d^3*n^3*x*x^n*e^(m*log(e) + m*log(x)) +
 2460*B*a*b^2*d^3*n^3*x*x^n*e^(m*log(e) + m*log(x)) + 820*A*b^3*d^3*n^3*x*x^
 n*e^(m*log(e) + m*log(x)) + 735*B*b^3*d^3*n^3*x*x^n*e^(m*log(e) + m*log(x))
 + 35*A*a^3*c^3*m^3*x*e^(m*log(e) + m*log(x)) + 35*B*a^3*c^3*m^3*x*e^(m*log
 (e) + m*log(x)) + 105*A*a^2*b*c^3*m^3*x*e^(m*log(e) + m*log(x)) + 105*B*a^2
 *b*c^3*m^3*x*e^(m*log(e) + m*log(x)) + 105*A*a*b^2*c^3*m^3*x*e^(m*log(e) +
 m*log(x)) + 105*B*a*b^2*c^3*m^3*x*e^(m*log(e) + m*log(x)) + 35*A*b^3*c^3*m^
 3*x*e^(m*log(e) + m*log(x)) + 35*B*b^3*c^3*m^3*x*e^(m*log(e) + m*log(x)) +
 105*A*a^3*c^2*d*m^3*x*e^(m*log(e) + m*log(x)) + 105*B*a^3*c^2*d*m^3*x*e^(m

$$\begin{aligned}
&\log(e) + m\log(x)) + 315*A*a^2*b*c^2*d*m^3*x*e^{(m\log(e) + m\log(x))} + 315* \\
&B*a^2*b*c^2*d*m^3*x*e^{(m\log(e) + m\log(x))} + 315*A*a*b^2*c^2*d*m^3*x*e^{(m* \\
\log(e) + m\log(x))} + 315*B*a*b^2*c^2*d*m^3*x*e^{(m\log(e) + m\log(x))} + 105* \\
&A*b^3*c^2*d*m^3*x*e^{(m\log(e) + m\log(x))} + 105*B*b^3*c^2*d*m^3*x*e^{(m\log(\\
&e) + m\log(x))} + 105*A*a^3*c*d^2*m^3*x*e^{(m\log(e) + m\log(x))} + 105*B*a^3* \\
&c*d^2*m^3*x*e^{(m\log(e) + m\log(x))} + 315*A*a^2*b*c*d^2*m^3*x*e^{(m\log(e) + \\
&m\log(x))} + 315*B*a^2*b*c*d^2*m^3*x*e^{(m\log(e) + m\log(x))} + 315*A*a*b^2* \\
&c*d^2*m^3*x*e^{(m\log(e) + m\log(x))} + 315*B*a*b^2*c*d^2*m^3*x*e^{(m\log(e) + \\
&m\log(x))} + 105*A*b^3*c*d^2*m^3*x*e^{(m\log(e) + m\log(x))} + 105*B*b^3*c*d^ \\
&2*m^3*x*e^{(m\log(e) + m\log(x))} + 35*A*a^3*d^3*m^3*x*e^{(m\log(e) + m\log(x) \\
&)} + 35*B*a^3*d^3*m^3*x*e^{(m\log(e) + m\log(x))} + 105*A*a^2*b*d^3*m^3*x*e^{(m \\
&*\log(e) + m\log(x))} + 105*B*a^2*b*d^3*m^3*x*e^{(m\log(e) + m\log(x))} + 105*A \\
&*a*b^2*d^3*m^3*x*e^{(m\log(e) + m\log(x))} + 105*B*a*b^2*d^3*m^3*x*e^{(m\log(e) \\
&)} + m\log(x)) + 35*A*b^3*d^3*m^3*x*e^{(m\log(e) + m\log(x))} + 35*B*b^3*d^3*m \\
&^3*x*e^{(m\log(e) + m\log(x))} + 420*A*a^3*c^3*m^2*n*x*e^{(m\log(e) + m\log(x) \\
&)} + 405*B*a^3*c^3*m^2*n*x*e^{(m\log(e) + m\log(x))} + 1215*A*a^2*b*c^3*m^2*n* \\
&x*e^{(m\log(e) + m\log(x))} + 1170*B*a^2*b*c^3*m^2*n*x*e^{(m\log(e) + m\log(x) \\
&)} + 1170*A*a*b^2*c^3*m^2*n*x*e^{(m\log(e) + m\log(x))} + 1125*B*a*b^2*c^3*m^2 \\
&*n*x*e^{(m\log(e) + m\log(x))} + 375*A*b^3*c^3*m^2*n*x*e^{(m\log(e) + m\log(x) \\
&)} + 360*B*b^3*c^3*m^2*n*x*e^{(m\log(e) + m\log(x))} + 1215*A*a^3*c^2*d*m^2*n* \\
&x*e^{(m\log(e) + m\log(x))} + 1170*B*a^3*c^2*d*m^2*n*x*e^{(m\log(e) + m\log(x) \\
&)} + 3510*A*a^2*b*c^2*d*m^2*n*x*e^{(m\log(e) + m\log(x))} + 3375*B*a^2*b*c^2*d \\
&*m^2*n*x*e^{(m\log(e) + m\log(x))} + 3375*A*a*b^2*c^2*d*m^2*n*x*e^{(m\log(e) + \\
&m\log(x))} + 3240*B*a*b^2*c^2*d*m^2*n*x*e^{(m\log(e) + m\log(x))} + 1080*A*b^ \\
&3*c^2*d*m^2*n*x*e^{(m\log(e) + m\log(x))} + 1035*B*b^3*c^2*d*m^2*n*x*e^{(m\log \\
&(e) + m\log(x))} + 1170*A*a^3*c*d^2*m^2*n*x*e^{(m\log(e) + m\log(x))} + 1125*B \\
&*a^3*c*d^2*m^2*n*x*e^{(m\log(e) + m\log(x))} + 3375*A*a^2*b*c*d^2*m^2*n*x*e^{(\\
&m\log(e) + m\log(x))} + 3240*B*a^2*b*c*d^2*m^2*n*x*e^{(m\log(e) + m\log(x))} + \\
&3240*A*a*b^2*c*d^2*m^2*n*x*e^{(m\log(e) + m\log(x))} + 3105*B*a*b^2*c*d^2*m^ \\
&2*n*x*e^{(m\log(e) + m\log(x))} + 1035*A*b^3*c*d^2*m^2*n*x*e^{(m\log(e) + m\lo \\
&g(x))} + 990*B*b^3*c*d^2*m^2*n*x*e^{(m\log(e) + m\log(x))} + 375*A*a^3*d^3*m^2 \\
&*n*x*e^{(m\log(e) + m\log(x))} + 360*B*a^3*d^3*m^2*n*x*e^{(m\log(e) + m\log(x) \\
&)} + 1080*A*a^2*b*d^3*m^2*n*x*e^{(m\log(e) + m\log(x))} + 1035*B*a^2*b*d^3*m^2 \\
&*n*x*e^{(m\log(e) + m\log(x))} + 1035*A*a*b^2*d^3*m^2*n*x*e^{(m\log(e) + m\log \\
&(x))} + 990*B*a*b^2*d^3*m^2*n*x*e^{(m\log(e) + m\log(x))} + 330*A*b^3*d^3*m^2* \\
&n*x*e^{(m\log(e) + m\log(x))} + 315*B*b^3*d^3*m^2*n*x*e^{(m\log(e) + m\log(x))} \\
&+ 1610*A*a^3*c^3*m^n^2*x*e^{(m\log(e) + m\log(x))} + 1475*B*a^3*c^3*m^n^2*x* \\
&e^{(m\log(e) + m\log(x))} + 4425*A*a^2*b*c^3*m^n^2*x*e^{(m\log(e) + m\log(x))} \\
&+ 4050*B*a^2*b*c^3*m^n^2*x*e^{(m\log(e) + m\log(x))} + 4050*A*a*b^2*c^3*m^n^2 \\
&*x*e^{(m\log(e) + m\log(x))} + 3705*B*a*b^2*c^3*m^n^2*x*e^{(m\log(e) + m\log(x) \\
&)} + 1235*A*b^3*c^3*m^n^2*x*e^{(m\log(e) + m\log(x))} + 1130*B*b^3*c^3*m^n^2* \\
&x*e^{(m\log(e) + m\log(x))} + 4425*A*a^3*c^2*d*m^n^2*x*e^{(m\log(e) + m\log(x) \\
&)} + 4050*B*a^3*c^2*d*m^n^2*x*e^{(m\log(e) + m\log(x))} + 12150*A*a^2*b*c^2*d* \\
&m^n^2*x*e^{(m\log(e) + m\log(x))} + 11115*B*a^2*b*c^2*d*m^n^2*x*e^{(m\log(e) + \\
&m\log(x))} + 11115*A*a*b^2*c^2*d*m^n^2*x*e^{(m\log(e) + m\log(x))} + 10170*B*
\end{aligned}$$

$$\begin{aligned}
& (5n) * e^{(m \log(e) + m \log(x))} + 189 * B * a * b^2 * c * d^2 * m^2 * x * x^{(5n)} * e^{(m \log(e) + m \log(x))} + 63 * A * b^3 * c * d^2 * m^2 * x * x^{(5n)} * e^{(m \log(e) + m \log(x))} + 63 * B * b^3 * c * d^2 * m^2 * x * x^{(5n)} * e^{(m \log(e) + m \log(x))} + 63 * B * a^2 * b * d^3 * m^2 * x * x^{(5n)} * e^{(m \log(e) + m \log(x))} + 63 * A * a * b^2 * d^3 * m^2 * x * x^{(5n)} * e^{(m \log(e) + m \log(x))} + 63 * B * a * b^2 * d^3 * m^2 * x * x^{(5n)} * e^{(m \log(e) + m \log(x))} + 21 * A * b^3 * d^3 * m^2 * x * x^{(5n)} * e^{(m \log(e) + m \log(x))} + 21 * B * b^3 * d^3 * m^2 * x * x^{(5n)} * e^{(m \log(e) + m \log(x))} + 414 * B * b^3 * c^2 * d * m * n * x * x^{(5n)} * e^{(m \log(e) + m \log(x))} + 1242 * B * a * b^2 * c * d^2 * m * n * x * x^{(5n)} * e^{(m \log(e) + m \log(x))} + 414 * A * b^3 * c * d^2 * m * n * x * x^{(5n)} * e^{(m \log(e) + m \log(x))} + 396 * B * b^3 * c * d^2 * m * n * x * x^{(5n)} * e^{(m \log(e) + m \log(x))} + 414 * B * a^2 * b * d^3 * m * n * x * x^{(5n)} * e^{(m \log(e) + m \log(x))} + 414 * A * a * b^2 * d^3 * m * n * x * x^{(5n)} * e^{(m \log(e) + m \log(x))} + 396 * B * a * b^2 * d^3 * m * n * x * x^{(5n)} * e^{(m \log(e) + m \log(x))} + 132 * A * b^3 * d^3 * m * n * x * x^{(5n)} * e^{(m \log(e) + m \log(x))} + 126 * B * b^3 * d^3 * m * n * x * x^{(5n)} * e^{(m \log(e) + m \log(x))} + 621 * B * b^3 * c^2 * d * n^2 * x * x^{(5n)} * e^{(m \log(e) + m \log(x))} + 1863 * B * a * b^2 * c * d^2 * n^2 * x * x^{(5n)} * e^{(m \log(e) + m \log(x))} + 621 * A * b^3 * c * d^2 * n^2 * x * x^{(5n)} * e^{(m \log(e) + m \log(x))} + 621 * A * a * b^2 * d^3 * n^2 * x * x^{(5n)} * e^{(m \log(e) + m \log(x))} + 570 * B * a * b^2 * d^3 * n^2 * x * x^{(5n)} * e^{(m \log(e) + m \log(x))} + 190 * A * b^3 * d^3 * n^2 * x * x^{(5n)} * e^{(m \log(e) + m \log(x))} + 175 * B * b^3 * d^3 * n^2 * x * x^{(5n)} * e^{(m \log(e) + m \log(x))} + 21 * B * b^3 * c^3 * m^2 * x * x^{(4n)} * e^{(m \log(e) + m \log(x))} + 189 * B * a * b^2 * c^2 * d * m^2 * x * x^{(4n)} * e^{(m \log(e) + m \log(x))} + 63 * A * b^3 * c^2 * d * m^2 * x * x^{(4n)} * e^{(m \log(e) + m \log(x))} + 63 * B * b^3 * c^2 * d * m^2 * x * x^{(4n)} * e^{(m \log(e) + m \log(x))} + 189 * B * a^2 * b * c * d^2 * m^2 * x * x^{(4n)} * e^{(m \log(e) + m \log(x))} + 189 * A * a * b^2 * c * d^2 * m^2 * x * x^{(4n)} * e^{(m \log(e) + m \log(x))} + 189 * B * a * b^2 * c * d^2 * m^2 * x * x^{(4n)} * e^{(m \log(e) + m \log(x))} + 63 * A * b^3 * c * d^2 * m^2 * x * x^{(4n)} * e^{(m \log(e) + m \log(x))} + 63 * B * b^3 * c * d^2 * m^2 * x * x^{(4n)} * e^{(m \log(e) + m \log(x))} + 21 * B * a^3 * d^3 * m^2 * x * x^{(4n)} * e^{(m \log(e) + m \log(x))} + 63 * A * a^2 * b * d^3 * m^2 * x * x^{(4n)} * e^{(m \log(e) + m \log(x))} + 63 * B * a^2 * b * d^3 * m^2 * x * x^{(4n)} * e^{(m \log(e) + m \log(x))} + 63 * A * a * b^2 * d^3 * m^2 * x * x^{(4n)} * e^{(m \log(e) + m \log(x))} + 63 * B * a * b^2 * d^3 * m^2 * x * x^{(4n)} * e^{(m \log(e) + m \log(x))} + 21 * A * b^3 * d^3 * m^2 * x * x^{(4n)} * e^{(m \log(e) + m \log(x))} + 21 * B * b^3 * d^3 * m^2 * x * x^{(4n)} * e^{(m \log(e) + m \log(x))} + 144 * B * b^3 * c^3 * m * n * x * x^{(4n)} * e^{(m \log(e) + m \log(x))} + 1296 * B * a * b^2 * c^2 * d * m * n * x * x^{(4n)} * e^{(m \log(e) + m \log(x))} + 432 * A * b^3 * c^2 * d * m * n * x * x^{(4n)} * e^{(m \log(e) + m \log(x))} + 414 * B * b^3 * c^2 * d * m * n * x * x^{(4n)} * e^{(m \log(e) + m \log(x))} + 1296 * B * a^2 * b * c * d^2 * m * n * x * x^{(4n)} * e^{(m \log(e) + m \log(x))} + 1242 * B * a * b^2 * c * d^2 * m * n * x * x^{(4n)} * e^{(m \log(e) + m \log(x))} + 414 * A * b^3 * c * d^2 * m * n * x * x^{(4n)} * e^{(m \log(e) + m \log(x))} + 396 * B * b^3 * c * d^2 * m * n * x * x^{(4n)} * e^{(m \log(e) + m \log(x))} + 144 * B * a^3 * d^3 * m * n * x * x^{(4n)} * e^{(m \log(e) + m \log(x))} + 432 * A * a^2 * b * d^3 * m * n * x * x^{(4n)} * e^{(m \log(e) + m \log(x))} + 414 * B * a^2 * b * d^3 * m * n * x * x^{(4n)} * e^{(m \log(e) + m \log(x))} + 414 * A * a * b^2 * d^3 * m * n * x * x^{(4n)} * e^{(m \log(e) + m \log(x))} + 396 * B * a * b^2 * d^3 * m * n * x * x^{(4n)} * e^{(m \log(e) + m \log(x))} + 132 * A * b^3 * d^3 * m * n * x * x^{(4n)} * e^{(m \log(e) + m \log(x))} + 126 * B * b^3 * d^3 * m * n * x * x^{(4n)} * e^{(m \log(e) + m \log(x))} + 226 * B * b^3 * c^3 * n^2 * x * x^{(4n)} * e^{(m \log(e) + m \log(x))} + 2034 * B * a * b^2 * c^2 * d * n^2 * x * x^{(4n)} * e^{(m \log(e) + m \log(x))} + 6
\end{aligned}$$

$78*A*b^3*c^2*d^n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 621*B*b^3*c^2*d^n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 2034*B*a^2*b*c*d^2*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 2034*A*a*b^2*c*d^2*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 1863*B*a*b^2*c*d^2*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 621*A*b^3*c*d^2*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 570*B*b^3*c*d^2*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 226*B*a^3*d^3*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 678*A*a^2*b*d^3*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 621*B*a^2*b*d^3*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 621*A*a*b^2*d^3*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 570*B*a*b^2*d^3*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 190*A*b^3*d^3*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 175*B*b^3*d^3*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 63*B*a*b^2*c^3*m^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 21*A*b^3*c^3*m^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 21*B*b^3*c^3*m^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 189*B*a^2*b*c^2*d*m^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 189*A*a*b^2*c^2*d*m^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 189*B*a*b^2*c^2*d*m^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 63*A*b^3*c^2*d*m^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 63*B*b^3*c^2*d*m^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 63*B*a^3*c*d^2*m^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 189*A*a^2*b*c*d^2*m^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 189*B*a^2*b*c*d^2*m^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 189*A*a*b^2*c*d^2*m^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 189*B*a*b^2*c*d^2*m^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 63*A*b^3*c*d^2*m^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 63*B*b^3*c*d^2*m^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 21*A*a^3*d^3*m^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 21*B*a^3*d^3*m^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 63*A*a^2*b*d^3*m^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 63*B*a^2*b*d^3*m^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 63*A*a*b^2*d^3*m^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 63*B*a*b^2*d^3*m^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 21*A*b^3*d^3*m^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 21*B*b^3*d^3*m^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 450*B*a*b^2*c^3*m*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 150*A*b^3*c^3*m*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 144*B*b^3*c^3*m*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1350*B*a^2*b*c^2*d*m*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1350*A*a*b^2*c^2*d*m*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1296*B*a*b^2*c^2*d*m*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 432*A*b^3*c^2*d*m*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 414*B*b^3*c^2*d*m*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 450*B*a^3*c*d^2*m*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1350*A*a^2*b*c*d^2*m*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1296*B*a^2*b*c*d^2*m*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1296*A*a*b^2*c*d^2*m*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1242*B*a*b^2*c*d^2*m*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 414*A*b^3*c*d^2*m*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 396*B*b^3*c*d^2*m*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 150*A*a^3*d^3*m*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 144*B*a^3*d^3*m*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 432*A*a^2*b*d^3*m*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 414*B*a^2*b*d^3*m*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 414*A*a*b^2*d^3*m*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 396*B*a*b^2*d^3*m*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 132*A*b^3*d^3*m*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 126*B*b^3*d^3*m*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 741*B*a*b^2*c^3*n^$

$$\begin{aligned}
& 2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 247*A*b^3*c^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 226*B*b^3*c^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 2223 \\
& *B*a^2*b*c^2*d*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 2223*A*a*b^2*c^2*d*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 2034*B*a*b^2*c^2*d*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 678*A*b^3*c^2*d*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 621*B*b^3*c^2*d*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 741*B*a^3*c*d^2 \\
& *n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 2223*A*a^2*b*c*d^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 2034*B*a^2*b*c*d^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 2034*A*a*b^2*c*d^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1863*B*a*b^2*c*d^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 621*A*b^3*c*d^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 570*B*b^3*c*d^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 247*A*a^3*d^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 226*B*a^3*d^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 678*A*a^2*b*d^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 621*B*a^2*b*d^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 621*A*a*b^2*d^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 570*B*a*b^2*d^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 190*A*b^3*d^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 175*B*b^3*d^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 63*B*a^2*b*c^3*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 63*A*a*b^2*c^3*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 21*A*b^3*c^3*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 21*B*b^3*c^3*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 63*B*a^3*c^2*d*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 189*A*a^2*b*c^2*d*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 189*B*a^2*b*c^2*d*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 189*A*a*b^2*c^2*d*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 189*B*a*b^2*c^2*d*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 63*A*b^3*c^2*d*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 63*B*b^3*c^2*d*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 63*A*a^3*c*d^2*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 63*B*a^3*c*d^2*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 189*A*a^2*b*c*d^2*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 189*B*a^2*b*c*d^2*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 189*A*a*b^2*c*d^2*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 189*B*a*b^2*c*d^2*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 63*A*b^3*c*d^2*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 63*B*b^3*c*d^2*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 21*A*a^3*d^3*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 21*B*a^3*d^3*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 63*A*a^2*b*d^3*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 63*B*a^2*b*d^3*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 63*A*a*b^2*d^3*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 63*B*a*b^2*d^3*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 21*A*b^3*d^3*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 21*B*b^3*d^3*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 468*B*a^2*b*c^3*m*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 468*A*a*b^2*c^3*m*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 450*B*a*b^2*c^3*m*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 150*A*b^3*c^3*m*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 144*B*b^3*c^3*m*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 468*B*a^3*c^2*d*m*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1404*A*a^2*b*c^2*d*m*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1350*B*a^2*b*c^2*d*m*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1350*A*a*b^2*c^2*d*m*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1296*B*a*b^2*c^2*d*m*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))}
\end{aligned}$$

$$\begin{aligned}
& (m \log(e) + m \log(x)) + 432 * A * b^3 * c^2 * d * m * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 414 * B * b^3 * c^2 * d * m * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 468 * A * a^3 * c * d^2 * m * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 450 * B * a^3 * c * d^2 * m * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 1350 * A * a^2 * b * c * d^2 * m * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 1296 * B * a^2 * b * c * d^2 * m * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 1296 * A * a * b^2 * c * d^2 * m * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 1242 * B * a * b^2 * c * d^2 * m * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 414 * A * b^3 * c * d^2 * m * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 396 * B * b^3 * c * d^2 * m * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 150 * A * a^3 * d^3 * m * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 144 * B * a^3 * d^3 * m * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 432 * A * a^2 * b * d^3 * m * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 414 * B * a^2 * b * d^3 * m * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 414 * A * a * b^2 * d^3 * m * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 396 * B * a * b^2 * d^3 * m * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 132 * A * b^3 * d^3 * m * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 126 * B * b^3 * d^3 * m * n * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 810 * B * a^2 * b * c^3 * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 810 * A * a * b^2 * c^3 * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 741 * B * a * b^2 * c^3 * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 247 * A * b^3 * c^3 * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 226 * B * b^3 * c^3 * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 810 * B * a^3 * c^2 * d * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 2430 * A * a^2 * b * c^2 * d * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 2223 * B * a^2 * b * c^2 * d * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 2223 * A * a * b^2 * c^2 * d * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 2034 * B * a * b^2 * c^2 * d * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 678 * A * b^3 * c^2 * d * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 621 * B * b^3 * c^2 * d * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 810 * A * a^3 * c * d^2 * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 741 * B * a^3 * c * d^2 * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 2223 * A * a^2 * b * c * d^2 * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 2034 * B * a^2 * b * c * d^2 * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 2034 * A * a * b^2 * c * d^2 * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 1863 * B * a * b^2 * c * d^2 * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 621 * A * b^3 * c * d^2 * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 570 * B * b^3 * c * d^2 * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 247 * A * a^3 * d^3 * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 226 * B * a^3 * d^3 * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 678 * A * a^2 * b * d^3 * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 621 * B * a^2 * b * d^3 * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 621 * A * a * b^2 * d^3 * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 570 * B * a * b^2 * d^3 * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 190 * A * b^3 * d^3 * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} \\
& + 175 * B * b^3 * d^3 * n^2 * x * x^{(2 * n)} * e^{(m \log(e) + m \log(x))} + 21 * B * a^3 * c^3 * m^2 * x * x^n * e^{(m \log(e) + m \log(x))} \\
& + 63 * A * a^2 * b * c^3 * m^2 * x * x^n * e^{(m \log(e) + m \log(x))} + 63 * B * a^2 * b * c^3 * m^2 * x * x^n * e^{(m \log(e) + m \log(x))} \\
& + 63 * A * a * b^2 * c^3 * m^2 * x * x^n * e^{(m \log(e) + m \log(x))} + 63 * B * a * b^2 * c^3 * m^2 * x * x^n * e^{(m \log(e) + m \log(x))} \\
& + 21 * A * b^3 * c^3 * m^2 * x * x^n * e^{(m \log(e) + m \log(x))} + 21 * B * b^3 * c^3 * m^2 * x * x^n * e^{(m \log(e) + m \log(x))} \\
& + 63 * A * a^3 * c^2 * d * m^2 * x * x^n * e^{(m \log(e) + m \log(x))} + 63 * B * a^3 * c^2 * d * m^2 * x * x^n * e^{(m \log(e) + m \log(x))} \\
& + 189 * A * a^2 * b * c^2 * d * m^2 * x * x^n * e^{(m \log(e) + m \log(x))} + 189 * B * a^2 * b * c^2 * d * m^2 * x * x^n * e^{(m \log(e) + m \log(x))} \\
& + 189 * A * a * b^2 * c^2 * d * m^2 * x * x^n * e^{(m \log(e) + m \log(x))} + 189 * B * a * b^2 * c^2 * d * m^2 * x * x^n * e^{(m \log(e) + m \log(x))} \\
& + 63 * A * b^3 * c^2 * d * m^2 * x * x^n * e^{(m \log(e) + m \log(x))} + 63 * B * b^3 * c^2 * d * m^2 * x * x^n * e^{(m \log(e) + m \log(x))}
\end{aligned}$$

$m \log(x) + 63A^3 a^3 c^3 d^2 m^2 x^x n^e^{(m \log(e) + m \log(x))} + 63B^3 a^3 c^3 d^2 m^2 x^x n^e^{(m \log(e) + m \log(x))} + 189A^2 a^2 b^2 c^3 d^2 m^2 x^x n^e^{(m \log(e) + m \log(x))} + 189B^2 a^2 b^2 c^3 d^2 m^2 x^x n^e^{(m \log(e) + m \log(x))} + 189A^2 a^2 b^2 c^3 d^2 m^2 x^x n^e^{(m \log(e) + m \log(x))} + 189B^2 a^2 b^2 c^3 d^2 m^2 x^x n^e^{(m \log(e) + m \log(x))} + 63A^2 a^2 b^3 c^3 d^2 m^2 x^x n^e^{(m \log(e) + m \log(x))} + 63B^2 a^2 b^3 c^3 d^2 m^2 x^x n^e^{(m \log(e) + m \log(x))} + 21A^3 a^3 d^3 m^2 x^x n^e^{(m \log(e) + m \log(x))} + 21B^3 a^3 d^3 m^2 x^x n^e^{(m \log(e) + m \log(x))} + 63A^2 a^2 b^3 d^3 m^2 x^x n^e^{(m \log(e) + m \log(x))} + 63B^2 a^2 b^3 d^3 m^2 x^x n^e^{(m \log(e) + m \log(x))} + 63A^2 a^2 b^2 d^3 m^2 x^x n^e^{(m \log(e) + m \log(x))} + 63B^2 a^2 b^2 d^3 m^2 x^x n^e^{(m \log(e) + m \log(x))} + 21A^2 a^2 b^3 d^3 m^2 x^x n^e^{(m \log(e) + m \log(x))} + 21B^2 a^2 b^3 d^3 m^2 x^x n^e^{(m \log(e) + m \log(x))} + 162B^3 a^3 c^3 m^n x^x n^e^{(m \log(e) + m \log(x))} + 486A^2 a^2 b^2 c^3 m^n x^x n^e^{(m \log(e) + m \log(x))} + 468B^2 a^2 b^2 c^3 m^n x^x n^e^{(m \log(e) + m \log(x))} + 450B^2 a^2 b^2 c^3 m^n x^x n^e^{(m \log(e) + m \log(x))} + 144B^3 b^3 c^3 m^n x^x n^e^{(m \log(e) + m \log(x))} + 486A^3 a^3 c^2 d^2 m^n x^x n^e^{(m \log(e) + m \log(x))} + 468B^3 a^3 c^2 d^2 m^n x^x n^e^{(m \log(e) + m \log(x))} + 1404A^2 a^2 b^2 c^2 d^2 m^n x^x n^e^{(m \log(e) + m \log(x))} + 1350B^2 a^2 b^2 c^2 d^2 m^n x^x n^e^{(m \log(e) + m \log(x))} + 1350A^2 a^2 b^2 c^2 d^2 m^n x^x n^e^{(m \log(e) + m \log(x))} + 1296B^2 a^2 b^2 c^2 d^2 m^n x^x n^e^{(m \log(e) + m \log(x))} + 432A^2 a^2 b^3 c^2 d^2 m^n x^x n^e^{(m \log(e) + m \log(x))} + 414B^2 a^2 b^3 c^2 d^2 m^n x^x n^e^{(m \log(e) + m \log(x))} + 468A^3 a^3 c^3 d^2 m^n x^x n^e^{(m \log(e) + m \log(x))} + 450B^3 a^3 c^3 d^2 m^n x^x n^e^{(m \log(e) + m \log(x))} + 1350A^2 a^2 b^2 c^3 d^2 m^n x^x n^e^{(m \log(e) + m \log(x))} + 1296B^2 a^2 b^2 c^3 d^2 m^n x^x n^e^{(m \log(e) + m \log(x))} + 1296A^2 a^2 b^2 c^3 d^2 m^n x^x n^e^{(m \log(e) + m \log(x))} + 1242B^2 a^2 b^2 c^3 d^2 m^n x^x n^e^{(m \log(e) + m \log(x))} + 414A^2 a^2 b^3 c^3 d^2 m^n x^x n^e^{(m \log(e) + m \log(x))} + 396B^2 a^2 b^3 c^3 d^2 m^n x^x n^e^{(m \log(e) + m \log(x))} + 150A^3 a^3 d^3 m^n x^x n^e^{(m \log(e) + m \log(x))} + 144B^3 a^3 d^3 m^n x^x n^e^{(m \log(e) + m \log(x))} + 432A^2 a^2 b^3 d^3 m^n x^x n^e^{(m \log(e) + m \log(x))} + 414B^2 a^2 b^3 d^3 m^n x^x n^e^{(m \log(e) + m \log(x))} + 414A^2 a^2 b^2 d^3 m^n x^x n^e^{(m \log(e) + m \log(x))} + 396B^2 a^2 b^2 d^3 m^n x^x n^e^{(m \log(e) + m \log(x))} + 132A^2 a^2 b^3 d^3 m^n x^x n^e^{(m \log(e) + m \log(x))} + 126B^2 a^2 b^3 d^3 m^n x^x n^e^{(m \log(e) + m \log(x))} + 295B^3 a^3 c^3 n^2 x^x n^e^{(m \log(e) + m \log(x))} + 885A^2 a^2 b^2 c^3 n^2 x^x n^e^{(m \log(e) + m \log(x))} + 810B^2 a^2 b^2 c^3 n^2 x^x n^e^{(m \log(e) + m \log(x))} + 810A^2 a^2 b^2 c^3 n^2 x^x n^e^{(m \log(e) + m \log(x))} + 741B^2 a^2 b^2 c^3 n^2 x^x n^e^{(m \log(e) + m \log(x))} + 247A^2 a^2 b^3 c^3 n^2 x^x n^e^{(m \log(e) + m \log(x))} + 226B^2 a^2 b^3 c^3 n^2 x^x n^e^{(m \log(e) + m \log(x))} + 885A^3 a^3 c^2 d^2 n^2 x^x n^e^{(m \log(e) + m \log(x))} + 810B^3 a^3 c^2 d^2 n^2 x^x n^e^{(m \log(e) + m \log(x))} + 2430A^2 a^2 b^2 c^2 d^2 n^2 x^x n^e^{(m \log(e) + m \log(x))} + 2223B^2 a^2 b^2 c^2 d^2 n^2 x^x n^e^{(m \log(e) + m \log(x))} + 2223A^2 a^2 b^2 c^2 d^2 n^2 x^x n^e^{(m \log(e) + m \log(x))} + 2034B^2 a^2 b^2 c^2 d^2 n^2 x^x n^e^{(m \log(e) + m \log(x))} + 678A^2 a^2 b^3 c^2 d^2 n^2 x^x n^e^{(m \log(e) + m \log(x))} + 621B^2 a^2 b^3 c^2 d^2 n^2 x^x n^e^{(m \log(e) + m \log(x))} + 810A^3 a^3 c^3 d^2 n^2 x^x n^e^{(m \log(e) + m \log(x))} + 741B^3 a^3 c^3 d^2 n^2 x^x n^e^{(m \log(e) + m \log(x))} + 2223A^2 a^2 b^2 c^3 d^2 n^2 x^x n^e^{(m \log(e) + m \log(x))} + 2223A^2 a^2 b^2 c^3 d^2 n^2 x^x n^e^{(m \log(e) + m \log(x))}$

$$\begin{aligned}
& (m \log(e) + m \log(x)) + 2034 * B * a^2 * b * c * d^2 * n^2 * x * x^n * e^{(m \log(e) + m \log(x))} \\
& + 2034 * A * a * b^2 * c * d^2 * n^2 * x * x^n * e^{(m \log(e) + m \log(x))} + 1863 * B * a * b^2 * c * d \\
& ^2 * n^2 * x * x^n * e^{(m \log(e) + m \log(x))} + 621 * A * b^3 * c * d^2 * n^2 * x * x^n * e^{(m \log(e) \\
& + m \log(x))} + 570 * B * b^3 * c * d^2 * n^2 * x * x^n * e^{(m \log(e) + m \log(x))} + 247 * A * a \\
& ^3 * d^3 * n^2 * x * x^n * e^{(m \log(e) + m \log(x))} + 226 * B * a^3 * d^3 * n^2 * x * x^n * e^{(m \log \\
& (e) + m \log(x))} + 678 * A * a^2 * b * d^3 * n^2 * x * x^n * e^{(m \log(e) + m \log(x))} + 621 * B \\
& * a^2 * b * d^3 * n^2 * x * x^n * e^{(m \log(e) + m \log(x))} + 621 * A * a * b^2 * d^3 * n^2 * x * x^n * e^{ \\
& (m \log(e) + m \log(x))} + 570 * B * a * b^2 * d^3 * n^2 * x * x^n * e^{(m \log(e) + m \log(x))} + \\
& 190 * A * b^3 * d^3 * n^2 * x * x^n * e^{(m \log(e) + m \log(x))} + 175 * B * b^3 * d^3 * n^2 * x * x^n * \\
& e^{(m \log(e) + m \log(x))} + 21 * A * a^3 * c^3 * m^2 * x * e^{(m \log(e) + m \log(x))} + 21 * B \\
& * a^3 * c^3 * m^2 * x * e^{(m \log(e) + m \log(x))} + 63 * A * a^2 * b * c^3 * m^2 * x * e^{(m \log(e) + \\
& m \log(x))} + 63 * B * a^2 * b * c^3 * m^2 * x * e^{(m \log(e) + m \log(x))} + 63 * A * a * b^2 * c^3 * \\
& m^2 * x * e^{(m \log(e) + m \log(x))} + 63 * B * a * b^2 * c^3 * m^2 * x * e^{(m \log(e) + m \log(x))} \\
&) + 21 * A * b^3 * c^3 * m^2 * x * e^{(m \log(e) + m \log(x))} + 21 * B * b^3 * c^3 * m^2 * x * e^{(m \log \\
& (e) + m \log(x))} + 63 * A * a^3 * c^2 * d * m^2 * x * e^{(m \log(e) + m \log(x))} + 63 * B * a^3 * \\
& c^2 * d * m^2 * x * e^{(m \log(e) + m \log(x))} + 189 * A * a^2 * b * c^2 * d * m^2 * x * e^{(m \log(e) + \\
& m \log(x))} + 189 * B * a^2 * b * c^2 * d * m^2 * x * e^{(m \log(e) + m \log(x))} + 189 * A * a * b^2 * \\
& c^2 * d * m^2 * x * e^{(m \log(e) + m \log(x))} + 189 * B * a * b^2 * c^2 * d * m^2 * x * e^{(m \log(e) + \\
& m \log(x))} + 63 * A * b^3 * c^2 * d * m^2 * x * e^{(m \log(e) + m \log(x))} + 63 * B * b^3 * c^2 * d * \\
& m^2 * x * e^{(m \log(e) + m \log(x))} + 63 * A * a^3 * c * d^2 * m^2 * x * e^{(m \log(e) + m \log(x))} \\
&) + 63 * B * a^3 * c * d^2 * m^2 * x * e^{(m \log(e) + m \log(x))} + 189 * A * a^2 * b * c * d^2 * m^2 * x * \\
& e^{(m \log(e) + m \log(x))} + 189 * B * a^2 * b * c * d^2 * m^2 * x * e^{(m \log(e) + m \log(x))} + \\
& 189 * A * a * b^2 * c * d^2 * m^2 * x * e^{(m \log(e) + m \log(x))} + 189 * B * a * b^2 * c * d^2 * m^2 * x * \\
& e^{(m \log(e) + m \log(x))} + 63 * A * b^3 * c * d^2 * m^2 * x * e^{(m \log(e) + m \log(x))} + 63 \\
& * B * b^3 * c * d^2 * m^2 * x * e^{(m \log(e) + m \log(x))} + 21 * A * a^3 * d^3 * m^2 * x * e^{(m \log(e) \\
& + m \log(x))} + 21 * B * a^3 * d^3 * m^2 * x * e^{(m \log(e) + m \log(x))} + 63 * A * a^2 * b * d^3 * \\
& m^2 * x * e^{(m \log(e) + m \log(x))} + 63 * B * a^2 * b * d^3 * m^2 * x * e^{(m \log(e) + m \log(x))} \\
&) + 63 * A * a * b^2 * d^3 * m^2 * x * e^{(m \log(e) + m \log(x))} + 63 * B * a * b^2 * d^3 * m^2 * x * e^{(\\
& m \log(e) + m \log(x))} + 21 * A * b^3 * d^3 * m^2 * x * e^{(m \log(e) + m \log(x))} + 21 * B * b^3 \\
& * d^3 * m^2 * x * e^{(m \log(e) + m \log(x))} + 168 * A * a^3 * c^3 * m * n * x * e^{(m \log(e) + m \log \\
& (x))} + 162 * B * a^3 * c^3 * m * n * x * e^{(m \log(e) + m \log(x))} + 486 * A * a^2 * b * c^3 * m * n * \\
& x * e^{(m \log(e) + m \log(x))} + 468 * B * a^2 * b * c^3 * m * n * x * e^{(m \log(e) + m \log(x))} + \\
& 468 * A * a * b^2 * c^3 * m * n * x * e^{(m \log(e) + m \log(x))} + 450 * B * a * b^2 * c^3 * m * n * x * e^{(m \\
& \log(e) + m \log(x))} + 150 * A * b^3 * c^3 * m * n * x * e^{(m \log(e) + m \log(x))} + 144 * B * b^3 \\
& * c^3 * m * n * x * e^{(m \log(e) + m \log(x))} + 486 * A * a^3 * c^2 * d * m * n * x * e^{(m \log(e) + \\
& m \log(x))} + 468 * B * a^3 * c^2 * d * m * n * x * e^{(m \log(e) + m \log(x))} + 1404 * A * a^2 * b * c^ \\
& 2 * d * m * n * x * e^{(m \log(e) + m \log(x))} + 1350 * B * a^2 * b * c^2 * d * m * n * x * e^{(m \log(e) + \\
& m \log(x))} + 1350 * A * a * b^2 * c^2 * d * m * n * x * e^{(m \log(e) + m \log(x))} + 1296 * B * a * b^2 \\
& * c^2 * d * m * n * x * e^{(m \log(e) + m \log(x))} + 432 * A * b^3 * c^2 * d * m * n * x * e^{(m \log(e) + \\
& m \log(x))} + 414 * B * b^3 * c^2 * d * m * n * x * e^{(m \log(e) + m \log(x))} + 468 * A * a^3 * c * d^2 \\
& * m * n * x * e^{(m \log(e) + m \log(x))} + 450 * B * a^3 * c * d^2 * m * n * x * e^{(m \log(e) + m \log(\\
& x))} + 1350 * A * a^2 * b * c * d^2 * m * n * x * e^{(m \log(e) + m \log(x))} + 1296 * B * a^2 * b * c * d^2 \\
& * m * n * x * e^{(m \log(e) + m \log(x))} + 1296 * A * a * b^2 * c * d^2 * m * n * x * e^{(m \log(e) + m \log \\
& (x))} + 1242 * B * a * b^2 * c * d^2 * m * n * x * e^{(m \log(e) + m \log(x))} + 414 * A * b^3 * c * d^2 \\
& * m * n * x * e^{(m \log(e) + m \log(x))} + 396 * B * b^3 * c * d^2 * m * n * x * e^{(m \log(e) + m \log(
\end{aligned}$$

$$\begin{aligned}
& x)) + 150*A*a^3*d^3*m*n*x*e^{(m*\log(e) + m*\log(x))} + 144*B*a^3*d^3*m*n*x*e^{(m*\log(e) + m*\log(x))} + 432*A*a^2*b*d^3*m*n*x*e^{(m*\log(e) + m*\log(x))} + 414*B*a^2*b*d^3*m*n*x*e^{(m*\log(e) + m*\log(x))} + 414*A*a*b^2*d^3*m*n*x*e^{(m*\log(e) + m*\log(x))} + 396*B*a*b^2*d^3*m*n*x*e^{(m*\log(e) + m*\log(x))} + 132*A*b^3*d^3*m*n*x*e^{(m*\log(e) + m*\log(x))} + 126*B*b^3*d^3*m*n*x*e^{(m*\log(e) + m*\log(x))} + 322*A*a^3*c^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 295*B*a^3*c^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 885*A*a^2*b*c^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 810*B*a^2*b*c^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 810*A*a*b^2*c^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 741*B*a*b^2*c^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 247*A*b^3*c^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 226*B*b^3*c^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 885*A*a^3*c^2*d*n^2*x*e^{(m*\log(e) + m*\log(x))} + 810*B*a^3*c^2*d*n^2*x*e^{(m*\log(e) + m*\log(x))} + 2430*A*a^2*b*c^2*d*n^2*x*e^{(m*\log(e) + m*\log(x))} + 2223*B*a^2*b*c^2*d*n^2*x*e^{(m*\log(e) + m*\log(x))} + 2223*A*a*b^2*c^2*d*n^2*x*e^{(m*\log(e) + m*\log(x))} + 2034*B*a*b^2*c^2*d*n^2*x*e^{(m*\log(e) + m*\log(x))} + 678*A*b^3*c^2*d*n^2*x*e^{(m*\log(e) + m*\log(x))} + 621*B*b^3*c^2*d*n^2*x*e^{(m*\log(e) + m*\log(x))} + 810*A*a^3*c*d^2*n^2*x*e^{(m*\log(e) + m*\log(x))} + 741*B*a^3*c*d^2*n^2*x*e^{(m*\log(e) + m*\log(x))} + 2223*A*a^2*b*c*d^2*n^2*x*e^{(m*\log(e) + m*\log(x))} + 2034*B*a^2*b*c*d^2*n^2*x*e^{(m*\log(e) + m*\log(x))} + 2034*A*a*b^2*c*d^2*n^2*x*e^{(m*\log(e) + m*\log(x))} + 1863*B*a*b^2*c*d^2*n^2*x*e^{(m*\log(e) + m*\log(x))} + 621*A*b^3*c*d^2*n^2*x*e^{(m*\log(e) + m*\log(x))} + 570*B*b^3*c*d^2*n^2*x*e^{(m*\log(e) + m*\log(x))} + 247*A*a^3*d^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 226*B*a^3*d^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 678*A*a^2*b*d^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 621*B*a^2*b*d^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 621*A*a*b^2*d^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 570*B*a*b^2*d^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 190*A*b^3*d^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 175*B*b^3*d^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 7*B*b^3*d^3*m*x*x^{(7*n)}*e^{(m*\log(e) + m*\log(x))} + 21*B*b^3*d^3*n*x*x^{(7*n)}*e^{(m*\log(e) + m*\log(x))} + 21*B*b^3*c*d^2*m*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 21*B*a*b^2*d^3*m*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 7*A*b^3*d^3*m*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 7*B*b^3*d^3*m*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 66*B*b^3*c*d^2*n*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 66*B*a*b^2*d^3*n*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 22*A*b^3*d^3*n*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 21*B*b^3*d^3*n*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 21*B*b^3*c^2*d*m*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 63*B*a*b^2*c*d^2*m*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 21*A*b^3*c*d^2*m*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 21*B*b^3*c*d^2*m*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 21*B*a^2*b*d^3*m*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 21*A*a*b^2*d^3*m*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 7*A*b^3*d^3*m*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 7*B*b^3*d^3*m*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 69*B*b^3*c^2*d*n*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 207*B*a*b^2*c*d^2*n*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 69*A*b^3*c*d^2*n*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 66*B*b^3*c*d^2*n*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 69*B*a^2*b*d^3*n*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 69*A*a*b^2*d^3*n*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 66*B*a*b^2*d^3*n*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 22*A*b^3*d^3*n*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 21*B*b^3*d^3*n*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))}
\end{aligned}$$

$$\begin{aligned}
& + m \log(x)) + 7*B*b^3*c^3*m*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 63*B*a*b^2 \\
& *c^2*d*m*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 21*A*b^3*c^2*d*m*x*x^{(4*n)}*e^{(\\
& m \log(e) + m \log(x))} + 21*B*b^3*c^2*d*m*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + \\
& 63*B*a^2*b*c*d^2*m*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 63*A*a*b^2*c*d^2*m* \\
& x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 63*B*a*b^2*c*d^2*m*x*x^{(4*n)}*e^{(m \log(e) \\
&) + m \log(x))} + 21*A*b^3*c*d^2*m*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 21*B*b \\
& ^3*c*d^2*m*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 7*B*a^3*d^3*m*x*x^{(4*n)}*e^{(m \\
& * \log(e) + m \log(x))} + 21*A*a^2*b*d^3*m*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + \\
& 21*B*a^2*b*d^3*m*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 21*A*a*b^2*d^3*m*x*x^{(\\
& 4*n)}*e^{(m \log(e) + m \log(x))} + 21*B*a*b^2*d^3*m*x*x^{(4*n)}*e^{(m \log(e) + m \log \\
& (x))} + 7*A*b^3*d^3*m*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 7*B*b^3*d^3*m*x*x \\
& x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 24*B*b^3*c^3*n*x*x^{(4*n)}*e^{(m \log(e) + m \log \\
& (x))} + 216*B*a*b^2*c^2*d*n*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 72*A*b^3*c \\
& ^2*d*n*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 69*B*b^3*c^2*d*n*x*x^{(4*n)}*e^{(m \\
& * \log(e) + m \log(x))} + 216*B*a^2*b*c*d^2*n*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} \\
& + 216*A*a*b^2*c*d^2*n*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 207*B*a*b^2*c*d^ \\
& 2*n*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 69*A*b^3*c*d^2*n*x*x^{(4*n)}*e^{(m \log \\
& (e) + m \log(x))} + 66*B*b^3*c*d^2*n*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 24*B \\
& *a^3*d^3*n*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 72*A*a^2*b*d^3*n*x*x^{(4*n)}*e \\
& ^{(m \log(e) + m \log(x))} + 69*B*a^2*b*d^3*n*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} \\
& + 69*A*a*b^2*d^3*n*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 66*B*a*b^2*d^3*n*x*x \\
& x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 22*A*b^3*d^3*n*x*x^{(4*n)}*e^{(m \log(e) + m \log \\
& (x))} + 21*B*b^3*d^3*n*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 21*B*a*b^2*c^3 \\
& *m*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 7*A*b^3*c^3*m*x*x^{(3*n)}*e^{(m \log(e) \\
& + m \log(x))} + 7*B*b^3*c^3*m*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 63*B*a^2*b* \\
& c^2*d*m*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 63*A*a*b^2*c^2*d*m*x*x^{(3*n)}*e^{(\\
& m \log(e) + m \log(x))} + 63*B*a*b^2*c^2*d*m*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} \\
&) + 21*A*b^3*c^2*d*m*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 21*B*b^3*c^2*d*m*x \\
& *x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 21*B*a^3*c*d^2*m*x*x^{(3*n)}*e^{(m \log(e) + \\
& m \log(x))} + 63*A*a^2*b*c*d^2*m*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 63*B*a^ \\
& 2*b*c*d^2*m*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 63*A*a*b^2*c*d^2*m*x*x^{(3*n \\
&)}*e^{(m \log(e) + m \log(x))} + 63*B*a*b^2*c*d^2*m*x*x^{(3*n)}*e^{(m \log(e) + m \log \\
& (x))} + 21*A*b^3*c*d^2*m*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 21*B*b^3*c*d^2 \\
& *m*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 7*A*a^3*d^3*m*x*x^{(3*n)}*e^{(m \log(e) \\
& + m \log(x))} + 7*B*a^3*d^3*m*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 21*A*a^2*b* \\
& d^3*m*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 21*B*a^2*b*d^3*m*x*x^{(3*n)}*e^{(m \log \\
& (e) + m \log(x))} + 21*A*a*b^2*d^3*m*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 21 \\
& *B*a*b^2*d^3*m*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 7*A*b^3*d^3*m*x*x^{(3*n)}* \\
& e^{(m \log(e) + m \log(x))} + 7*B*b^3*d^3*m*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + \\
& 75*B*a*b^2*c^3*n*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 25*A*b^3*c^3*n*x*x^{(3 \\
& *n)}*e^{(m \log(e) + m \log(x))} + 24*B*b^3*c^3*n*x*x^{(3*n)}*e^{(m \log(e) + m \log \\
& (x))} + 225*B*a^2*b*c^2*d*n*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 225*A*a*b^2*c \\
& ^2*d*n*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 216*B*a*b^2*c^2*d*n*x*x^{(3*n)}*e^{(\\
& m \log(e) + m \log(x))} + 72*A*b^3*c^2*d*n*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} \\
& + 69*B*b^3*c^2*d*n*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 75*B*a^3*c*d^2*n*x*x
\end{aligned}$$

$$\begin{aligned}
& ^{(3n)}e^{(m\log(e) + m\log(x))} + 225Aa^2b^3cd^2nxxx^{(3n)}e^{(m\log(e) + m\log(x))} + 216Ba^2b^3cd^2nxxx^{(3n)}e^{(m\log(e) + m\log(x))} + 216A \\
& *a^b^2c^d^2nxxx^{(3n)}e^{(m\log(e) + m\log(x))} + 207B^2a^b^2c^d^2nxxx^{(3n)}e^{(m\log(e) + m\log(x))} + 69A^2b^3cd^2nxxx^{(3n)}e^{(m\log(e) + m\log(x))} + 66B^2b^3cd^2nxxx^{(3n)}e^{(m\log(e) + m\log(x))} + 25A^2a^3d^3 \\
& *nxxx^{(3n)}e^{(m\log(e) + m\log(x))} + 24B^2a^3d^3nxxx^{(3n)}e^{(m\log(e) + m\log(x))} + 72A^2a^2b^3d^3nxxx^{(3n)}e^{(m\log(e) + m\log(x))} + 69B^2a^2b^3d^3nxxx^{(3n)}e^{(m\log(e) + m\log(x))} + 69A^2a^2b^2d^3nxxx^{(3n)}e^{(m\log(e) + m\log(x))} + 66B^2a^2b^2d^3nxxx^{(3n)}e^{(m\log(e) + m\log(x))} \\
& + 22A^2b^3d^3nxxx^{(3n)}e^{(m\log(e) + m\log(x))} + 21B^2b^3d^3nxxx^{(3n)}e^{(m\log(e) + m\log(x))} + 21B^2a^2b^3c^3mxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 21A^2a^2b^2c^3mxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 21B^2a^2b^2c^3mxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 7A^2b^3c^3mxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 7B^2b^3c^3mxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 21B^2a^3c^2 \\
& *d^2mxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 63A^2a^2b^3c^2d^2mxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 63B^2a^2b^3c^2d^2mxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 63A^2a^2b^2c^2d^2mxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 63B^2a^2b^2c^2d^2mxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 21A^2b^3c^2d^2mxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 21B^2b^3c^2d^2mxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 21A^2a^3 \\
& *c^d^2mxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 21B^2a^3c^d^2mxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 63A^2a^2b^3cd^2mxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 63B^2a^2b^3cd^2mxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 63A^2a^2b^2c^d^2mxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 63B^2a^2b^2c^d^2mxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 21A^2b^3cd^2mxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 21B^2b^3cd^2mxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 7A^2a^3d^3mxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 7B^2a^3d^3mxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 2 \\
& 1A^2a^2b^3d^3mxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 21B^2a^2b^3d^3mxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 21A^2a^2b^2d^3mxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 21B^2a^2b^2d^3mxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 7A^2b^3d^3mxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 7B^2b^3d^3mxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 78B^2a^2b^3c^3nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 78A^2a^2b^2c^3nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 75B^2a^2b^2c^3nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 25A^2b^3c^3nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 24B^2b^3c^3nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 78B^2a^3c^2d^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 234A^2a^2b^3c^2d^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 225B^2a^2b^3c^2d^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 225A^2a^2b^2c^2d^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 216B^2a^2b^2c^2d^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 72A^2b^3c^2d^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 69B^2b^3c^2d^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 78A^2a^3c^d^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 75B^2a^3c^d^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 225A^2a^2b^3cd^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 216B^2a^2b^2c^d^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 216A^2a^2b^2c^d^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 207B^2a^2b^2c^d^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 69A^2b^3cd^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 66B^2b^3cd^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 25A^2a^3d^3nxxx^{(2n)}e^{(m\log(
\end{aligned}$$

$$\begin{aligned}
& + 21*B*b^3*d^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 7*A*a^3*c^3*m*x*e^{(m*\log(e) + m*\log(x))} + 7*B*a^3*c^3*m*x*e^{(m*\log(e) + m*\log(x))} + 21*A*a^2*b*c^3*m*x*e^{(m*\log(e) + m*\log(x))} + 21*B*a^2*b*c^3*m*x*e^{(m*\log(e) + m*\log(x))} + 21*A*a*b^2*c^3*m*x*e^{(m*\log(e) + m*\log(x))} + 21*B*a*b^2*c^3*m*x*e^{(m*\log(e) + m*\log(x))} + 7*A*b^3*c^3*m*x*e^{(m*\log(e) + m*\log(x))} + 7*B*b^3*c^3*m*x*e^{(m*\log(e) + m*\log(x))} + 21*A*a^3*c^2*d*m*x*e^{(m*\log(e) + m*\log(x))} + 21*B*a^3*c^2*d*m*x*e^{(m*\log(e) + m*\log(x))} + 63*A*a^2*b*c^2*d*m*x*e^{(m*\log(e) + m*\log(x))} + 63*B*a^2*b*c^2*d*m*x*e^{(m*\log(e) + m*\log(x))} + 63*A*a*b^2*c^2*d*m*x*e^{(m*\log(e) + m*\log(x))} + 63*B*a*b^2*c^2*d*m*x*e^{(m*\log(e) + m*\log(x))} + 21*A*b^3*c^2*d*m*x*e^{(m*\log(e) + m*\log(x))} + 21*B*b^3*c^2*d*m*x*e^{(m*\log(e) + m*\log(x))} + 21*A*a^3*c*d^2*m*x*e^{(m*\log(e) + m*\log(x))} + 21*B*a^3*c*d^2*m*x*e^{(m*\log(e) + m*\log(x))} + 63*A*a^2*b*c*d^2*m*x*e^{(m*\log(e) + m*\log(x))} + 63*B*a^2*b*c*d^2*m*x*e^{(m*\log(e) + m*\log(x))} + 63*A*a*b^2*c*d^2*m*x*e^{(m*\log(e) + m*\log(x))} + 63*B*a*b^2*c*d^2*m*x*e^{(m*\log(e) + m*\log(x))} + 21*A*b^3*c*d^2*m*x*e^{(m*\log(e) + m*\log(x))} + 21*B*b^3*c*d^2*m*x*e^{(m*\log(e) + m*\log(x))} + 7*A*a^3*d^3*m*x*e^{(m*\log(e) + m*\log(x))} + 7*B*a^3*d^3*m*x*e^{(m*\log(e) + m*\log(x))} + 21*A*a^2*b*d^3*m*x*e^{(m*\log(e) + m*\log(x))} + 21*B*a^2*b*d^3*m*x*e^{(m*\log(e) + m*\log(x))} + 21*A*a*b^2*d^3*m*x*e^{(m*\log(e) + m*\log(x))} + 21*B*a*b^2*d^3*m*x*e^{(m*\log(e) + m*\log(x))} + 7*A*b^3*d^3*m*x*e^{(m*\log(e) + m*\log(x))} + 7*B*b^3*d^3*m*x*e^{(m*\log(e) + m*\log(x))} + 28*A*a^3*c^3*n*x*e^{(m*\log(e) + m*\log(x))} + 27*B*a^3*c^3*n*x*e^{(m*\log(e) + m*\log(x))} + 81*A*a^2*b*c^3*n*x*e^{(m*\log(e) + m*\log(x))} + 78*B*a^2*b*c^3*n*x*e^{(m*\log(e) + m*\log(x))} + 75*B*a*b^2*c^3*n*x*e^{(m*\log(e) + m*\log(x))} + 25*A*b^3*c^3*n*x*e^{(m*\log(e) + m*\log(x))} + 24*B*b^3*c^3*n*x*e^{(m*\log(e) + m*\log(x))} + 81*A*a^3*c^2*d*n*x*e^{(m*\log(e) + m*\log(x))} + 78*B*a^3*c^2*d*n*x*e^{(m*\log(e) + m*\log(x))} + 234*A*a^2*b*c^2*d*n*x*e^{(m*\log(e) + m*\log(x))} + 225*B*a^2*b*c^2*d*n*x*e^{(m*\log(e) + m*\log(x))} + 225*A*a*b^2*c^2*d*n*x*e^{(m*\log(e) + m*\log(x))} + 216*B*a*b^2*c^2*d*n*x*e^{(m*\log(e) + m*\log(x))} + 72*A*b^3*c^2*d*n*x*e^{(m*\log(e) + m*\log(x))} + 69*B*b^3*c^2*d*n*x*e^{(m*\log(e) + m*\log(x))} + 78*A*a^3*c*d^2*n*x*e^{(m*\log(e) + m*\log(x))} + 75*B*a^3*c*d^2*n*x*e^{(m*\log(e) + m*\log(x))} + 225*A*a^2*b*c*d^2*n*x*e^{(m*\log(e) + m*\log(x))} + 216*B*a^2*b*c*d^2*n*x*e^{(m*\log(e) + m*\log(x))} + 216*A*a*b^2*c*d^2*n*x*e^{(m*\log(e) + m*\log(x))} + 207*B*a*b^2*c*d^2*n*x*e^{(m*\log(e) + m*\log(x))} + 69*A*b^3*c*d^2*n*x*e^{(m*\log(e) + m*\log(x))} + 66*B*b^3*c*d^2*n*x*e^{(m*\log(e) + m*\log(x))} + 25*A*a^3*d^3*n*x*e^{(m*\log(e) + m*\log(x))} + 24*B*a^3*d^3*n*x*e^{(m*\log(e) + m*\log(x))} + 72*A*a^2*b*d^3*n*x*e^{(m*\log(e) + m*\log(x))} + 69*B*a^2*b*d^3*n*x*e^{(m*\log(e) + m*\log(x))} + 69*A*a*b^2*d^3*n*x*e^{(m*\log(e) + m*\log(x))} + 66*B*a*b^2*d^3*n*x*e^{(m*\log(e) + m*\log(x))} + 22*A*b^3*d^3*n*x*e^{(m*\log(e) + m*\log(x))} + 21*B*b^3*d^3*n*x*e^{(m*\log(e) + m*\log(x))} + B*b^3*d^3*x*x^{(7*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*b^3*c*d^2*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*a*b^2*d^3*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + A*b^3*d^3*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + B*b^3*d^3*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*b^3*c^2*d*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 9*B*a*b^2*c*d^2*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 3*A*b^3*c*d^2*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*b^3*c*d^2*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*a
\end{aligned}$$

$$\begin{aligned}
& ^2*b*d^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 3*A*a*b^2*d^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*a*b^2*d^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + A*b^3*d^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + B*b^3*c^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 9*B*a*b^2*c^2*d*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3*A*b^3*c^2*d*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*b^3*c^2*d*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 9*B*a^2*b*c*d^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 9*A*a*b^2*c*d^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3*A*b^3*c*d^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*b^3*c*d^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + B*a^3*d^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3*A*a^2*b*d^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*a^2*b*d^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3*A*a*b^2*d^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*a*b^2*d^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + A*b^3*d^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + B*b^3*d^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*a*b^2*c^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + A*b^3*c^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + B*b^3*c^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 9*B*a^2*b*c^2*d*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 9*A*a*b^2*c^2*d*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 9*B*a*b^2*c^2*d*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3*A*b^3*c^2*d*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*b^3*c^2*d*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*a^3*c*d^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 9*A*a^2*b*c*d^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 9*B*a^2*b*c*d^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 9*A*a*b^2*c*d^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 9*B*a*b^2*c*d^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3*A*b^3*c*d^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*b^3*c*d^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + A*a^3*d^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + B*a^3*d^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3*A*a^2*b*d^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*a^2*b*d^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3*A*a*b^2*d^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*a*b^2*d^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + A*b^3*d^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + B*b^3*d^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*a^2*b*c^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3*A*a*b^2*c^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + A*b^3*c^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + B*b^3*c^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*a^3*c^2*d*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 9*A*a^2*b*c^2*d*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 9*B*a^2*b*c^2*d*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 9*B*a*b^2*c^2*d*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3*A*b^3*c^2*d*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*b^3*c^2*d*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3*A*a^3*c*d^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*a^3*c*d^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 9*A*a^2*b*c*d^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 9*B*a^2*b*c*d^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 9*A*a*b^2*c*d^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 9*B*a*b^2*c*d^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3*A*b^3*c*d^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*b^3*c*d^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + A*a^3*d^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + B*a^3*d^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3*A*a^2*b*d^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*a^2*b*d^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3*A*a
\end{aligned}$$

$$\begin{aligned}
& b^2 d^3 x x^{(2n)} e^{(m \log(e) + m \log(x))} + 3 B a b^2 d^3 x x^{(2n)} e^{(m \log(e) + m \log(x))} + A b^3 d^3 x x^{(2n)} e^{(m \log(e) + m \log(x))} + B b^3 d^3 x x^{(2n)} e^{(m \log(e) + m \log(x))} + B a^3 c^3 x x^n e^{(m \log(e) + m \log(x))} \\
& + 3 A a^2 b c^3 x x^n e^{(m \log(e) + m \log(x))} + 3 B a^2 b c^3 x x^n e^{(m \log(e) + m \log(x))} + 3 A a b^2 c^3 x x^n e^{(m \log(e) + m \log(x))} + 3 B a b^2 c^3 x x^n e^{(m \log(e) + m \log(x))} + A b^3 c^3 x x^n e^{(m \log(e) + m \log(x))} \\
& + B b^3 c^3 x x^n e^{(m \log(e) + m \log(x))} + 3 A a^3 c^2 d x x^n e^{(m \log(e) + m \log(x))} + 3 B a^3 c^2 d x x^n e^{(m \log(e) + m \log(x))} + 9 A a^2 b c^2 d x x^n e^{(m \log(e) + m \log(x))} + 9 B a^2 b c^2 d x x^n e^{(m \log(e) + m \log(x))} \\
& + 9 A a b^2 c^2 d x x^n e^{(m \log(e) + m \log(x))} + 9 B a b^2 c^2 d x x^n e^{(m \log(e) + m \log(x))} + 3 A a b^3 c^2 d x x^n e^{(m \log(e) + m \log(x))} + 3 B a b^3 c^2 d x x^n e^{(m \log(e) + m \log(x))} + 3 A a^3 c d^2 x x^n e^{(m \log(e) + m \log(x))} \\
& + 3 B a^3 c d^2 x x^n e^{(m \log(e) + m \log(x))} + 9 A a^2 b c d^2 x x^n e^{(m \log(e) + m \log(x))} + 9 B a^2 b c d^2 x x^n e^{(m \log(e) + m \log(x))} + 9 A a b^2 c d^2 x x^n e^{(m \log(e) + m \log(x))} + 9 B a b^2 c d^2 x x^n e^{(m \log(e) + m \log(x))} \\
& + 3 A a b^3 c d^2 x x^n e^{(m \log(e) + m \log(x))} + 3 B a b^3 c d^2 x x^n e^{(m \log(e) + m \log(x))} + A a^3 d^3 x x^n e^{(m \log(e) + m \log(x))} + B a^3 d^3 x x^n e^{(m \log(e) + m \log(x))} + 3 A a^2 b d^3 x x^n e^{(m \log(e) + m \log(x))} + 3 B a^2 b d^3 x x^n e^{(m \log(e) + m \log(x))} + 3 A a b^2 d^3 x x^n e^{(m \log(e) + m \log(x))} + 3 B a b^2 d^3 x x^n e^{(m \log(e) + m \log(x))} + A b^3 d^3 x x^n e^{(m \log(e) + m \log(x))} + B b^3 d^3 x x^n e^{(m \log(e) + m \log(x))} + A a^3 c^3 x x e^{(m \log(e) + m \log(x))} + B a^3 c^3 x x e^{(m \log(e) + m \log(x))} + 3 A a^2 b c^3 x x e^{(m \log(e) + m \log(x))} + 3 B a^2 b c^3 x x e^{(m \log(e) + m \log(x))} + 3 A a b^2 c^3 x x e^{(m \log(e) + m \log(x))} + 3 B a b^2 c^3 x x e^{(m \log(e) + m \log(x))} + A b^3 c^3 x x e^{(m \log(e) + m \log(x))} + B b^3 c^3 x x e^{(m \log(e) + m \log(x))} + 3 A a^3 c^2 d x x e^{(m \log(e) + m \log(x))} + 3 B a^3 c^2 d x x e^{(m \log(e) + m \log(x))} + 9 A a^2 b c^2 d x x e^{(m \log(e) + m \log(x))} + 9 B a^2 b c^2 d x x e^{(m \log(e) + m \log(x))} + 9 A a b^2 c^2 d x x e^{(m \log(e) + m \log(x))} + 9 B a b^2 c^2 d x x e^{(m \log(e) + m \log(x))} + 3 A a b^3 c^2 d x x e^{(m \log(e) + m \log(x))} + 3 B a b^3 c^2 d x x e^{(m \log(e) + m \log(x))} + 3 A a^3 c d^2 x x e^{(m \log(e) + m \log(x))} + 3 B a^3 c d^2 x x e^{(m \log(e) + m \log(x))} + 9 A a^2 b c d^2 x x e^{(m \log(e) + m \log(x))} + 9 B a^2 b c d^2 x x e^{(m \log(e) + m \log(x))} + 9 A a b^2 c d^2 x x e^{(m \log(e) + m \log(x))} + 9 B a b^2 c d^2 x x e^{(m \log(e) + m \log(x))} + 3 A a b^3 c d^2 x x e^{(m \log(e) + m \log(x))} + 3 B a b^3 c d^2 x x e^{(m \log(e) + m \log(x))} + A a^3 d^3 x x e^{(m \log(e) + m \log(x))} + B a^3 d^3 x x e^{(m \log(e) + m \log(x))} + 3 A a^2 b d^3 x x e^{(m \log(e) + m \log(x))} + 3 B a^2 b d^3 x x e^{(m \log(e) + m \log(x))} + 3 A a b^2 d^3 x x e^{(m \log(e) + m \log(x))} + 3 B a b^2 d^3 x x e^{(m \log(e) + m \log(x))} + A b^3 d^3 x x e^{(m \log(e) + m \log(x))} + B b^3 d^3 x x e^{(m \log(e) + m \log(x))} \\
&) / (m^8 + 28 m^7 n + 322 m^6 n^2 + 1960 m^5 n^3 + 6769 m^4 n^4 + 13132 m^3 n^5 + 13068 m^2 n^6 + 5040 m n^7 + 8 m^7 + 196 m^6 n + 1932 m^5 n^2 + 9800 m^4 n^3 + 27076 m^3 n^4 + 39396 m^2 n^5 + 26136 m n^6 + 5040 n^7 + 28 m^6 + 588 m^5 n + 4830 m^4 n^2 + 19600 m^3 n^3 + 40614 m^2 n^4 + 39396 m n^5 + 13068 n^6 + 56 m^5 + 980 m^4 n + 6440 m^3 n^2 + 19600 m^2 n^3 + 27076 m n^4 + 13132 n^5 + 70 m^4 + 980 m^3 n + 4830 m^2 n^2 + 9800 m n^3 + 6769 n^4 + 56
\end{aligned}$$

$m^3 + 588m^2n + 1932mn^2 + 1960n^3 + 28m^2 + 196mn + 322n^2 + 8m + 28n + 1)$

Mupad [B] (verification not implemented)

Time = 11.97 (sec) , antiderivative size = 2949, normalized size of antiderivative = 7.19

$$\int (ex)^m (a + bx^n)^3 (A + Bx^n) (c + dx^n)^3 dx = \text{Too large to display}$$

[In] `int((e*x)^m*(A + B*x^n)*(a + b*x^n)^3*(c + d*x^n)^3,x)`

[Out] $(x^{3n})(e^x)^m(Aa^3d^3 + Ab^3c^3 + 3Bab^2c^3 + 3Ba^3cd^2 + 9Aab^2c^2d + 9Aa^2b^2cd^2 + 9Ba^2b^2c^2d)(6m + 25n + 125m^2n + 988mn^2 + 250m^2n + 3657mn^3 + 250m^3n + 6224mn^4 + 125m^4n + 3796mn^5 + 25m^5n + 15m^2 + 20m^3 + 15m^4 + 6m^5 + m^6 + 247n^2 + 1219n^3 + 3112n^4 + 3796n^5 + 1680n^6 + 1482m^2n^2 + 3657m^2n^3 + 988m^3n^2 + 3112m^2n^4 + 1219m^3n^3 + 247m^4n^2 + 1)/(7m + 28n + 168mn + 1610mn^2 + 420m^2n + 7840mn^3 + 560m^3n + 20307mn^4 + 420m^4n + 26264mn^5 + 168m^5n + 13068mn^6 + 28m^6n + 21m^2 + 35m^3 + 35m^4 + 21m^5 + 7m^6 + m^7 + 322n^2 + 1960n^3 + 6769n^4 + 13132n^5 + 13068n^6 + 5040n^7 + 3220m^2n^2 + 11760m^2n^3 + 3220m^3n^2 + 20307m^2n^4 + 7840m^3n^3 + 1610m^4n^2 + 13132m^2n^5 + 6769m^3n^4 + 1960m^4n^3 + 322m^5n^2 + 1) + (x^{4n})(e^x)^m(Ba^3d^3 + Bb^3c^3 + 3Aa^2bd^3 + 3Ab^3c^2d + 9Aab^2cd^2 + 9Baab^2c^2d + 9Ba^2b^2cd^2)(6m + 24n + 120mn + 904m^2n + 240m^2n + 3168mn^3 + 240m^3n + 5090mn^4 + 120m^4n + 2952mn^5 + 24m^5n + 15m^2 + 20m^3 + 15m^4 + 6m^5 + m^6 + 226n^2 + 1056n^3 + 2545n^4 + 2952n^5 + 1260n^6 + 1356m^2n^2 + 3168m^2n^3 + 904m^3n^2 + 2545m^2n^4 + 1056m^3n^3 + 226m^4n^2 + 1)/(7m + 28n + 168mn + 1610mn^2 + 420m^2n + 7840mn^3 + 560m^3n + 20307mn^4 + 420m^4n + 26264mn^5 + 168m^5n + 13068mn^6 + 28m^6n + 21m^2 + 35m^3 + 35m^4 + 21m^5 + 7m^6 + m^7 + 322n^2 + 1960n^3 + 6769n^4 + 13132n^5 + 13068n^6 + 5040n^7 + 3220m^2n^2 + 11760m^2n^3 + 3220m^3n^2 + 20307m^2n^4 + 7840m^3n^3 + 1610m^4n^2 + 13132m^2n^5 + 6769m^3n^4 + 1960m^4n^3 + 322m^5n^2 + 1) + (Aa^3c^3x(e^x)^m)/(m + 1) + (a^2c^2xxx^n)(e^x)^m(3Aa^3d + 3Aab^3c + Baa^3c)(6m + 27n + 135mn + 1180mn^2 + 270m^2n + 4995mn^3 + 270m^3n + 10208mn^4 + 135m^4n + 8028mn^5 + 27m^5n + 15m^2 + 20m^3 + 15m^4 + 6m^5 + m^6 + 295n^2 + 1665n^3 + 5104n^4 + 8028n^5 + 5040n^6 + 1770m^2n^2 + 4995m^2n^3 + 1180m^3n^2 + 5104m^2n^4 + 1665m^3n^3 + 295m^4n^2 + 1)/(7m + 28n + 168mn + 1610mn^2 + 420m^2n + 7840mn^3 + 560m^3n + 20307mn^4 + 420m^4n + 26264mn^5 + 168m^5n + 13068mn^6 + 28m^6n + 21m^2 + 35m^3 + 35m^4 + 21m^5 + 7m^6 + m^7 + 322n^2 + 1960n^3 + 6769n^4 + 13132n^5 + 13068n^6 + 5040n^7 + 3220m^2n^2 + 11760m^2n^3 + 3220m^3n^2 + 20307m^2n^4 + 7840m^3n^3 + 1610m^4n^2 + 13132m^2n^5 + 6769m^3n^4 + 1960m^4n^3 + 322m^5n^2 + 1)$

$$\begin{aligned}
& n^2 + 13132m^2n^5 + 6769m^3n^4 + 1960m^4n^3 + 322m^5n^2 + 1) + (B*b \\
& ^3*d^3*x*x^(7*n)*(e*x)^m*(6*m + 21*n + 105*m*n + 700*m*n^2 + 210*m^2*n + 22 \\
& 05*m*n^3 + 210*m^3*n + 3248*m*n^4 + 105*m^4*n + 1764*m*n^5 + 21*m^5*n + 15* \\
& m^2 + 20*m^3 + 15*m^4 + 6*m^5 + m^6 + 175*n^2 + 735*n^3 + 1624*n^4 + 1764*n \\
& ^5 + 720*n^6 + 1050*m^2*n^2 + 2205*m^2*n^3 + 700*m^3*n^2 + 1624*m^2*n^4 + 7 \\
& 35*m^3*n^3 + 175*m^4*n^2 + 1))/((7*m + 28*n + 168*m*n + 1610*m*n^2 + 420*m^2 \\
& *n + 7840*m*n^3 + 560*m^3*n + 20307*m*n^4 + 420*m^4*n + 26264*m*n^5 + 168*m \\
& ^5*n + 13068*m*n^6 + 28*m^6*n + 21*m^2 + 35*m^3 + 35*m^4 + 21*m^5 + 7*m^6 + \\
& m^7 + 322*n^2 + 1960*n^3 + 6769*n^4 + 13132*n^5 + 13068*n^6 + 5040*n^7 + 3 \\
& 220*m^2*n^2 + 11760*m^2*n^3 + 3220*m^3*n^2 + 20307*m^2*n^4 + 7840*m^3*n^3 + \\
& 1610*m^4*n^2 + 13132*m^2*n^5 + 6769*m^3*n^4 + 1960*m^4*n^3 + 322*m^5*n^2 + \\
& 1) + (3*a*c*x*x^(2*n)*(e*x)^m*(A*a^2*d^2 + A*b^2*c^2 + B*a*b*c^2 + B*a^2*c \\
& *d + 3*A*a*b*c*d)*(6*m + 26*n + 130*m*n + 1080*m*n^2 + 260*m^2*n + 4260*m*n \\
& ^3 + 260*m^3*n + 7858*m*n^4 + 130*m^4*n + 5274*m*n^5 + 26*m^5*n + 15*m^2 + \\
& 20*m^3 + 15*m^4 + 6*m^5 + m^6 + 270*n^2 + 1420*n^3 + 3929*n^4 + 5274*n^5 + \\
& 2520*n^6 + 1620*m^2*n^2 + 4260*m^2*n^3 + 1080*m^3*n^2 + 3929*m^2*n^4 + 1420 \\
& *m^3*n^3 + 270*m^4*n^2 + 1))/((7*m + 28*n + 168*m*n + 1610*m*n^2 + 420*m^2*n \\
& + 7840*m*n^3 + 560*m^3*n + 20307*m*n^4 + 420*m^4*n + 26264*m*n^5 + 168*m^5 \\
& *n + 13068*m*n^6 + 28*m^6*n + 21*m^2 + 35*m^3 + 35*m^4 + 21*m^5 + 7*m^6 + m \\
& ^7 + 322*n^2 + 1960*n^3 + 6769*n^4 + 13132*n^5 + 13068*n^6 + 5040*n^7 + 322 \\
& 0*m^2*n^2 + 11760*m^2*n^3 + 3220*m^3*n^2 + 20307*m^2*n^4 + 7840*m^3*n^3 + 1 \\
& 610*m^4*n^2 + 13132*m^2*n^5 + 6769*m^3*n^4 + 1960*m^4*n^3 + 322*m^5*n^2 + 1 \\
&) + (3*b*d*x*x^(5*n)*(e*x)^m*(B*a^2*d^2 + B*b^2*c^2 + A*a*b*d^2 + A*b^2*c*d \\
& + 3*B*a*b*c*d)*(6*m + 23*n + 115*m*n + 828*m*n^2 + 230*m^2*n + 2775*m*n^3 \\
& + 230*m^3*n + 4288*m*n^4 + 115*m^4*n + 2412*m*n^5 + 23*m^5*n + 15*m^2 + 20* \\
& m^3 + 15*m^4 + 6*m^5 + m^6 + 207*n^2 + 925*n^3 + 2144*n^4 + 2412*n^5 + 1008 \\
& *n^6 + 1242*m^2*n^2 + 2775*m^2*n^3 + 828*m^3*n^2 + 2144*m^2*n^4 + 925*m^3*n \\
& ^3 + 207*m^4*n^2 + 1))/((7*m + 28*n + 168*m*n + 1610*m*n^2 + 420*m^2*n + 784 \\
& 0*m*n^3 + 560*m^3*n + 20307*m*n^4 + 420*m^4*n + 26264*m*n^5 + 168*m^5*n + 1 \\
& 3068*m*n^6 + 28*m^6*n + 21*m^2 + 35*m^3 + 35*m^4 + 21*m^5 + 7*m^6 + m^7 + 3 \\
& 22*n^2 + 1960*n^3 + 6769*n^4 + 13132*n^5 + 13068*n^6 + 5040*n^7 + 3220*m^2* \\
& n^2 + 11760*m^2*n^3 + 3220*m^3*n^2 + 20307*m^2*n^4 + 7840*m^3*n^3 + 1610*m^ \\
& 4*n^2 + 13132*m^2*n^5 + 6769*m^3*n^4 + 1960*m^4*n^3 + 322*m^5*n^2 + 1) + (b \\
& ^2*d^2*x*x^(6*n)*(e*x)^m*(A*b*d + 3*B*a*d + 3*B*b*c)*(6*m + 22*n + 110*m*n \\
& + 760*m*n^2 + 220*m^2*n + 2460*m*n^3 + 220*m^3*n + 3698*m*n^4 + 110*m^4*n + \\
& 2038*m*n^5 + 22*m^5*n + 15*m^2 + 20*m^3 + 15*m^4 + 6*m^5 + m^6 + 190*n^2 + \\
& 820*n^3 + 1849*n^4 + 2038*n^5 + 840*n^6 + 1140*m^2*n^2 + 2460*m^2*n^3 + 76 \\
& 0*m^3*n^2 + 1849*m^2*n^4 + 820*m^3*n^3 + 190*m^4*n^2 + 1))/((7*m + 28*n + 16 \\
& 8*m*n + 1610*m*n^2 + 420*m^2*n + 7840*m*n^3 + 560*m^3*n + 20307*m*n^4 + 420 \\
& *m^4*n + 26264*m*n^5 + 168*m^5*n + 13068*m*n^6 + 28*m^6*n + 21*m^2 + 35*m^3 \\
& + 35*m^4 + 21*m^5 + 7*m^6 + m^7 + 322*n^2 + 1960*n^3 + 6769*n^4 + 13132*n^ \\
& 5 + 13068*n^6 + 5040*n^7 + 3220*m^2*n^2 + 11760*m^2*n^3 + 3220*m^3*n^2 + 20 \\
& 307*m^2*n^4 + 7840*m^3*n^3 + 1610*m^4*n^2 + 13132*m^2*n^5 + 6769*m^3*n^4 + \\
& 1960*m^4*n^3 + 322*m^5*n^2 + 1)
\end{aligned}$$

3.16 $\int (ex)^m (a + bx^n)^2 (A + Bx^n) (c + dx^n)^3 dx$

Optimal result	748
Rubi [A] (verified)	749
Mathematica [A] (verified)	751
Maple [C] (warning: unable to verify)	751
Fricas [B] (verification not implemented)	752
Sympy [B] (verification not implemented)	752
Maxima [B] (verification not implemented)	850
Giac [B] (verification not implemented)	851
Mupad [B] (verification not implemented)	892

Optimal result

Integrand size = 31, antiderivative size = 310

$$\begin{aligned}
 & \int (ex)^m (a + bx^n)^2 (A + Bx^n) (c + dx^n)^3 dx \\
 &= \frac{ac^2(2Abc + aBc + 3aAd)x^{1+n}(ex)^m}{1 + m + n} \\
 &+ \frac{c(aBc(2bc + 3ad) + A(b^2c^2 + 6abcd + 3a^2d^2))x^{1+2n}(ex)^m}{1 + m + 2n} \\
 &+ \frac{(6abcd(Bc + Ad) + a^2d^2(3Bc + Ad) + b^2c^2(Bc + 3Ad))x^{1+3n}(ex)^m}{1 + m + 3n} \\
 &+ \frac{d(a^2Bd^2 + 3b^2c(Bc + Ad) + 2abd(3Bc + Ad))x^{1+4n}(ex)^m}{1 + m + 4n} \\
 &+ \frac{bd^2(3bBc + Abd + 2aBd)x^{1+5n}(ex)^m}{1 + m + 5n} + \frac{b^2Bd^3x^{1+6n}(ex)^m}{1 + m + 6n} + \frac{a^2Ac^3(ex)^{1+m}}{e(1 + m)}
 \end{aligned}$$

```
[Out] a*c^2*(3*A*a*d+2*A*b*c+B*a*c)*x^(1+n)*(e*x)^m/(1+m+n)+c*(a*B*c*(3*a*d+2*b*c
)+A*(3*a^2*d^2+6*a*b*c*d+b^2*c^2))*x^(1+2*n)*(e*x)^m/(1+m+2*n)+(6*a*b*c*d*(
A*d+B*c)+a^2*d^2*(A*d+3*B*c)+b^2*c^2*(3*A*d+B*c))*x^(1+3*n)*(e*x)^m/(1+m+3*
n)+d*(a^2*B*d^2+3*b^2*c*(A*d+B*c)+2*a*b*d*(A*d+3*B*c))*x^(1+4*n)*(e*x)^m/(1
+m+4*n)+b*d^2*(A*b*d+2*B*a*d+3*B*b*c)*x^(1+5*n)*(e*x)^m/(1+m+5*n)+b^2*B*d^3
*x^(1+6*n)*(e*x)^m/(1+m+6*n)+a^2*A*c^3*(e*x)^(1+m)/e/(1+m)
```

Rubi [A] (verified)

Time = 0.26 (sec) , antiderivative size = 310, normalized size of antiderivative = 1.00, number of steps used = 14, number of rules used = 3, $\frac{\text{number of rules}}{\text{integrand size}} = 0.097$, Rules used = {584, 20, 30}

$$\begin{aligned} & \int (ex)^m (a + bx^n)^2 (A + Bx^n) (c + dx^n)^3 dx \\ &= \frac{cx^{2n+1}(ex)^m (A(3a^2d^2 + 6abcd + b^2c^2) + aBc(3ad + 2bc))}{m + 2n + 1} \\ &+ \frac{x^{3n+1}(ex)^m (a^2d^2(Ad + 3Bc) + 6abcd(Ad + Bc) + b^2c^2(3Ad + Bc))}{m + 3n + 1} \\ &+ \frac{dx^{4n+1}(ex)^m (a^2Bd^2 + 2abd(Ad + 3Bc) + 3b^2c(Ad + Bc))}{m + 4n + 1} \\ &+ \frac{a^2Ac^3(ex)^{m+1}}{e(m+1)} + \frac{ac^2x^{n+1}(ex)^m(3aAd + aBc + 2Abc)}{m+n+1} \\ &+ \frac{bd^2x^{5n+1}(ex)^m(2aBd + Abd + 3bBc)}{m+5n+1} + \frac{b^2Bd^3x^{6n+1}(ex)^m}{m+6n+1} \end{aligned}$$

[In] Int[(e*x)^m*(a + b*x^n)^2*(A + B*x^n)*(c + d*x^n)^3,x]

[Out] (a*c^2*(2*A*b*c + a*B*c + 3*a*A*d)*x^(1 + n)*(e*x)^m)/(1 + m + n) + (c*(a*B*c*(2*b*c + 3*a*d) + A*(b^2*c^2 + 6*a*b*c*d + 3*a^2*d^2))*x^(1 + 2*n)*(e*x)^m)/(1 + m + 2*n) + ((6*a*b*c*d*(B*c + A*d) + a^2*d^2*(3*B*c + A*d) + b^2*c^2*(B*c + 3*A*d))*x^(1 + 3*n)*(e*x)^m)/(1 + m + 3*n) + (d*(a^2*B*d^2 + 3*b^2*c*(B*c + A*d) + 2*a*b*d*(3*B*c + A*d))*x^(1 + 4*n)*(e*x)^m)/(1 + m + 4*n) + (b*d^2*(3*b*B*c + A*b*d + 2*a*B*d)*x^(1 + 5*n)*(e*x)^m)/(1 + m + 5*n) + (b^2*B*d^3*x^(1 + 6*n)*(e*x)^m)/(1 + m + 6*n) + (a^2*A*c^3*(e*x)^(1 + m))/(e*(1 + m))

Rule 20

Int[(u_.)*((a_.)*(v_))^(m_.)*((b_.)*(v_))^(n_.), x_Symbol] := Dist[b^IntPart[n]*((b*v)^FracPart[n]/(a^IntPart[n]*(a*v)^FracPart[n])), Int[u*(a*v)^(m+n), x], x] /; FreeQ[{a, b, m, n}, x] && !IntegerQ[m] && !IntegerQ[n] && !IntegerQ[m+n]

Rule 30

Int[(x_)^(m_.), x_Symbol] := Simp[x^(m+1)/(m+1), x] /; FreeQ[m, x] && N eQ[m, -1]

Rule 584

Int[((g_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_.))^(p_.)*((c_) + (d_.)*(x_)^(n_.))^(q_.)*((e_) + (f_.)*(x_)^(n_.))^(r_.), x_Symbol] := Int[ExpandIntegrand[(g*x)^m*(a + b*x^n)^p*(c + d*x^n)^q*(e + f*x^n)^r, x], x] /; FreeQ[{a, b, c

, d, e, f, g, m, n}, x] && IGtQ[p, -2] && IGtQ[q, 0] && IGtQ[r, 0]

Rubi steps

$$\begin{aligned}
 \text{integral} &= \int (a^2 Ac^3(ex)^m + ac^2(2Abc + aBc + 3aAd)x^n(ex)^m \\
 &\quad + c(aBc(2bc + 3ad) + A(b^2c^2 + 6abcd + 3a^2d^2)) x^{2n}(ex)^m \\
 &\quad + (6abcd(Bc + Ad) + a^2d^2(3Bc + Ad) + b^2c^2(Bc + 3Ad)) x^{3n}(ex)^m \\
 &\quad + d(a^2Bd^2 + 3b^2c(Bc + Ad) + 2abd(3Bc + Ad)) x^{4n}(ex)^m \\
 &\quad + bd^2(3bBc + Abd + 2aBd)x^{5n}(ex)^m + b^2Bd^3x^{6n}(ex)^m) dx \\
 &= \frac{a^2 Ac^3(ex)^{1+m}}{e(1+m)} + (b^2 Bd^3) \int x^{6n}(ex)^m dx + (ac^2(2Abc + aBc + 3aAd)) \int x^n(ex)^m dx \\
 &\quad + (bd^2(3bBc + Abd + 2aBd)) \int x^{5n}(ex)^m dx \\
 &\quad + (d(a^2 Bd^2 + 3b^2 c(Bc + Ad) + 2abd(3Bc + Ad))) \int x^{4n}(ex)^m dx \\
 &\quad + (6abcd(Bc + Ad) + a^2 d^2(3Bc + Ad) + b^2 c^2(Bc + 3Ad)) \int x^{3n}(ex)^m dx \\
 &\quad + (c(aBc(2bc + 3ad) + A(b^2 c^2 + 6abcd + 3a^2 d^2))) \int x^{2n}(ex)^m dx \\
 &= \frac{a^2 Ac^3(ex)^{1+m}}{e(1+m)} + (b^2 Bd^3 x^{-m}(ex)^m) \int x^{m+6n} dx \\
 &\quad + (ac^2(2Abc + aBc + 3aAd)x^{-m}(ex)^m) \int x^{m+n} dx \\
 &\quad + (bd^2(3bBc + Abd + 2aBd)x^{-m}(ex)^m) \int x^{m+5n} dx \\
 &\quad + (d(a^2 Bd^2 + 3b^2 c(Bc + Ad) + 2abd(3Bc + Ad)) x^{-m}(ex)^m) \int x^{m+4n} dx \\
 &\quad + ((6abcd(Bc + Ad) + a^2 d^2(3Bc + Ad) + b^2 c^2(Bc + 3Ad)) x^{-m}(ex)^m) \int x^{m+3n} dx \\
 &\quad + (c(aBc(2bc + 3ad) + A(b^2 c^2 + 6abcd + 3a^2 d^2)) x^{-m}(ex)^m) \int x^{m+2n} dx \\
 &= \frac{ac^2(2Abc + aBc + 3aAd)x^{1+n}(ex)^m}{1+m+n} \\
 &\quad + \frac{c(aBc(2bc + 3ad) + A(b^2 c^2 + 6abcd + 3a^2 d^2)) x^{1+2n}(ex)^m}{1+m+2n} \\
 &\quad + \frac{(6abcd(Bc + Ad) + a^2 d^2(3Bc + Ad) + b^2 c^2(Bc + 3Ad)) x^{1+3n}(ex)^m}{1+m+3n} \\
 &\quad + \frac{d(a^2 Bd^2 + 3b^2 c(Bc + Ad) + 2abd(3Bc + Ad)) x^{1+4n}(ex)^m}{1+m+4n} \\
 &\quad + \frac{bd^2(3bBc + Abd + 2aBd)x^{1+5n}(ex)^m}{1+m+5n} + \frac{b^2 Bd^3 x^{1+6n}(ex)^m}{1+m+6n} + \frac{a^2 Ac^3(ex)^{1+m}}{e(1+m)}
 \end{aligned}$$

Mathematica [A] (verified)

Time = 1.64 (sec) , antiderivative size = 265, normalized size of antiderivative = 0.85

$$\int (ex)^m (a + bx^n)^2 (A + Bx^n) (c + dx^n)^3 dx$$

$$= x(ex)^m \left(\frac{a^2 Ac^3}{1+m} + \frac{ac^2(2Abc + aBc + 3aAd)x^n}{1+m+n} + \frac{c(aBc(2bc + 3ad) + A(b^2c^2 + 6abcd + 3a^2d^2))x^{2n}}{1+m+2n} + \frac{(6abcd(Bc + Ad) + a^2d^2(3Bc + Ad) + b^2c^2(Bc + 3Ad))x^{3n}}{1+m+3n} + \frac{d(a^2Bd^2 + 3b^2c(Bc + Ad) + 2abd(3Bc + Ad))x^{4n}}{1+m+4n} + \frac{bd^2(3bBc + Abd + 2aBd)x^{5n}}{1+m+5n} + \frac{b^2Bd^3x^{6n}}{1+m+6n} \right)$$

[In] Integrate[(e*x)^m*(a + b*x^n)^2*(A + B*x^n)*(c + d*x^n)^3,x]

[Out] x*(e*x)^m*((a^2*A*c^3)/(1+m) + (a*c^2*(2*A*b*c + a*B*c + 3*a*A*d)*x^n)/(1+m+n) + (c*(a*B*c*(2*b*c + 3*a*d) + A*(b^2*c^2 + 6*a*b*c*d + 3*a^2*d^2))*x^(2*n))/(1+m+2*n) + ((6*a*b*c*d*(B*c + A*d) + a^2*d^2*(3*B*c + A*d) + b^2*c^2*(B*c + 3*A*d))*x^(3*n))/(1+m+3*n) + (d*(a^2*B*d^2 + 3*b^2*c*(B*c + A*d) + 2*a*b*d*(3*B*c + A*d))*x^(4*n))/(1+m+4*n) + (b*d^2*(3*b*B*c + A*b*d + 2*a*B*d)*x^(5*n))/(1+m+5*n) + (b^2*B*d^3*x^(6*n))/(1+m+6*n))

Maple [C] (warning: unable to verify)

Result contains higher order function than in optimal. Order 9 vs. order 3.

Time = 5.10 (sec) , antiderivative size = 11356, normalized size of antiderivative = 36.63

method	result	size
risch	Expression too large to display	11356
parallelrisch	Expression too large to display	15203

[In] int((e*x)^m*(a+b*x^n)^2*(A+B*x^n)*(c+d*x^n)^3,x,method=_RETURNVERBOSE)

[Out] result too large to display

Fricas [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 6557 vs. $2(310) = 620$.

Time = 0.48 (sec) , antiderivative size = 6557, normalized size of antiderivative = 21.15

$$\int (ex)^m (a + bx^n)^2 (A + Bx^n) (c + dx^n)^3 dx = \text{Too large to display}$$

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

[Out] Too large to include

Sympy [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 168099 vs. $2(311) = 622$.

Time = 23.29 (sec) , antiderivative size = 168099, normalized size of antiderivative = 542.25

$$\int (ex)^m (a + bx^n)^2 (A + Bx^n) (c + dx^n)^3 dx = \text{Too large to display}$$

[In] integrate((e*x)**m*(a+b*x**n)**2*(A+B*x**n)*(c+d*x**n)**3,x)

[Out] Piecewise(((A + B)*(a + b)**2*(c + d)**3*log(x)/e, Eq(m, -1) & Eq(n, 0)), ((A*a**2*c**3*log(x) + 3*A*a**2*c**2*d*x**n/n + 3*A*a**2*c*d**2*x**(2*n)/(2*n) + A*a**2*d**3*x**(3*n)/(3*n) + 2*A*a*b*c**3*x**n/n + 3*A*a*b*c**2*d*x**(2*n)/n + 2*A*a*b*c*d**2*x**(3*n)/n + A*a*b*d**3*x**(4*n)/(2*n) + A*b**2*c**3*x**(2*n)/(2*n) + A*b**2*c**2*d*x**(3*n)/n + 3*A*b**2*c*d**2*x**(4*n)/(4*n) + A*b**2*d**3*x**(5*n)/(5*n) + B*a**2*c**3*x**n/n + 3*B*a**2*c**2*d*x**(2*n)/(2*n) + B*a**2*c*d**2*x**(3*n)/n + B*a**2*d**3*x**(4*n)/(4*n) + B*a*b*c**3*x**(2*n)/n + 2*B*a*b*c**2*d*x**(3*n)/n + 3*B*a*b*c*d**2*x**(4*n)/(2*n) + 2*B*a*b*d**3*x**(5*n)/(5*n) + B*b**2*c**3*x**(3*n)/(3*n) + 3*B*b**2*c**2*d*x**(4*n)/(4*n) + 3*B*b**2*c*d**2*x**(5*n)/(5*n) + B*b**2*d**3*x**(6*n)/(6*n))/e, Eq(m, -1)), (A*a**2*c**3*Piecewise((0**(-6*n - 1)*x, Eq(e, 0)), (Piecewise((-1/(6*n*(e*x)**(6*n)), Ne(n, 0)), (log(e*x), True))/e, True)) + 3*A*a**2*c**2*d*Piecewise((-x*x**n*(e*x)**(-6*n - 1)/(5*n), Ne(n, 0)), (x*x**n*(e*x)**(-6*n - 1)*log(x), True)) + 3*A*a**2*c*d**2*Piecewise((-x*x**(2*n)*(e*x)**(-6*n - 1)/(4*n), Ne(n, 0)), (x*x**(2*n)*(e*x)**(-6*n - 1)*log(x), True)) + A*a**2*d**3*Piecewise((-x*x**(3*n)*(e*x)**(-6*n - 1)/(3*n), Ne(n, 0)), (x*x**(3*n)*(e*x)**(-6*n - 1)*log(x), True)) + 2*A*a*b*c**3*Piecewise((-x*x**n*(e*x)**(-6*n - 1)/(5*n), Ne(n, 0)), (x*x**n*(e*x)**(-6*n - 1)*log(x), True)) + 6*A*a*b*c**2*d*Piecewise((-x*x**(2*n)*(e*x)**(-6*n - 1)/(4*n), Ne(n, 0)), (x*x**(2*n)*(e*x)**(-6*n - 1)*log(x), True)) + 6*A*a*b*c*d**2*Piecewise((-x*x**(3*n)*(e*x)**(-6*n - 1)/(3*n), Ne(n, 0)), (x*x**(3*n)*(e*x)**(-6*n - 1)*log(x), True)) + 2*A*a*b*d**3*Piecewise((-x*x**(4*n)*(e*x)**(-6*n - 1)/(2*n), Ne(n, 0)), (x*x**(4*n)*(e*x)**(-6*n - 1)*log(x), True)) + A


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*b**2*c**3*Piecewise((-x*x**(2*n)*(e*x)**(-6*n - 1)/(4*n), Ne(n, 0)), (x*x*
*(2*n)*(e*x)**(-6*n - 1)*log(x), True)) + 3*A*b**2*c**2*d*Piecewise((-x*x**
(3*n)*(e*x)**(-6*n - 1)/(3*n), Ne(n, 0)), (x*x**(3*n)*(e*x)**(-6*n - 1)*log
(x), True)) + 3*A*b**2*c*d**2*Piecewise((-x*x**(4*n)*(e*x)**(-6*n - 1)/(2*n
), Ne(n, 0)), (x*x**(4*n)*(e*x)**(-6*n - 1)*log(x), True)) + A*b**2*d**3*Pi
ecewise((-x*x**(5*n)*(e*x)**(-6*n - 1)/n, Ne(n, 0)), (x*x**(5*n)*(e*x)**(-6
*n - 1)*log(x), True)) + B*a**2*c**3*Piecewise((-x*x**n*(e*x)**(-6*n - 1)/(
5*n), Ne(n, 0)), (x*x**n*(e*x)**(-6*n - 1)*log(x), True)) + 3*B*a**2*c**2*d
*Piecewise((-x*x**(2*n)*(e*x)**(-6*n - 1)/(4*n), Ne(n, 0)), (x*x**(2*n)*(e*
x)**(-6*n - 1)*log(x), True)) + 3*B*a**2*c*d**2*Piecewise((-x*x**(3*n)*(e*x
)**(-6*n - 1)/(3*n), Ne(n, 0)), (x*x**(3*n)*(e*x)**(-6*n - 1)*log(x), True)
) + B*a**2*d**3*Piecewise((-x*x**(4*n)*(e*x)**(-6*n - 1)/(2*n), Ne(n, 0)),
(x*x**(4*n)*(e*x)**(-6*n - 1)*log(x), True)) + 2*B*a*b*c**3*Piecewise((-x*x
**(2*n)*(e*x)**(-6*n - 1)/(4*n), Ne(n, 0)), (x*x**(2*n)*(e*x)**(-6*n - 1)*l
og(x), True)) + 6*B*a*b*c**2*d*Piecewise((-x*x**(3*n)*(e*x)**(-6*n - 1)/(3*
n), Ne(n, 0)), (x*x**(3*n)*(e*x)**(-6*n - 1)*log(x), True)) + 6*B*a*b*c*d**
2*Piecewise((-x*x**(4*n)*(e*x)**(-6*n - 1)/(2*n), Ne(n, 0)), (x*x**(4*n)*(e
*x)**(-6*n - 1)*log(x), True)) + 2*B*a*b*d**3*Piecewise((-x*x**(5*n)*(e*x)*
*(-6*n - 1)/n, Ne(n, 0)), (x*x**(5*n)*(e*x)**(-6*n - 1)*log(x), True)) + B*
b**2*c**3*Piecewise((-x*x**(3*n)*(e*x)**(-6*n - 1)/(3*n), Ne(n, 0)), (x*x**
(3*n)*(e*x)**(-6*n - 1)*log(x), True)) + 3*B*b**2*c**2*d*Piecewise((-x*x**
(4*n)*(e*x)**(-6*n - 1)/(2*n), Ne(n, 0)), (x*x**(4*n)*(e*x)**(-6*n - 1)*log(
x), True)) + 3*B*b**2*c*d**2*Piecewise((-x*x**(5*n)*(e*x)**(-6*n - 1)/n, Ne
(n, 0)), (x*x**(5*n)*(e*x)**(-6*n - 1)*log(x), True)) + B*b**2*d**3*x*x**(6
*n)*(e*x)**(-6*n - 1)*log(x), Eq(m, -6*n - 1)), (A*a**2*c**3*Piecewise((0**
(-5*n - 1)*x, Eq(e, 0)), (Piecewise((-1/(5*n*(e*x)**(5*n)), Ne(n, 0)), (log
(e*x), True))/e, True)) + 3*A*a**2*c**2*d*Piecewise((-x*x**n*(e*x)**(-5*n -
1)/(4*n), Ne(n, 0)), (x*x**n*(e*x)**(-5*n - 1)*log(x), True)) + 3*A*a**2*c
*d**2*Piecewise((-x*x**(2*n)*(e*x)**(-5*n - 1)/(3*n), Ne(n, 0)), (x*x**(2*n
)*(e*x)**(-5*n - 1)*log(x), True)) + A*a**2*d**3*Piecewise((-x*x**(3*n)*(e*
x)**(-5*n - 1)/(2*n), Ne(n, 0)), (x*x**(3*n)*(e*x)**(-5*n - 1)*log(x), True
)) + 2*A*a*b*c**3*Piecewise((-x*x**n*(e*x)**(-5*n - 1)/(4*n), Ne(n, 0)), (x
*x**n*(e*x)**(-5*n - 1)*log(x), True)) + 6*A*a*b*c**2*d*Piecewise((-x*x**
(2*n)*(e*x)**(-5*n - 1)/(3*n), Ne(n, 0)), (x*x**(2*n)*(e*x)**(-5*n - 1)*log(x
), True)) + 6*A*a*b*c*d**2*Piecewise((-x*x**(3*n)*(e*x)**(-5*n - 1)/(2*n),
Ne(n, 0)), (x*x**(3*n)*(e*x)**(-5*n - 1)*log(x), True)) + 2*A*a*b*d**3*Piec
ewise((-x*x**(4*n)*(e*x)**(-5*n - 1)/n, Ne(n, 0)), (x*x**(4*n)*(e*x)**(-5*n
- 1)*log(x), True)) + A*b**2*c**3*Piecewise((-x*x**(2*n)*(e*x)**(-5*n - 1)
/(3*n), Ne(n, 0)), (x*x**(2*n)*(e*x)**(-5*n - 1)*log(x), True)) + 3*A*b**2*
c**2*d*Piecewise((-x*x**(3*n)*(e*x)**(-5*n - 1)/(2*n), Ne(n, 0)), (x*x**(3*
n)*(e*x)**(-5*n - 1)*log(x), True)) + 3*A*b**2*c*d**2*Piecewise((-x*x**(4*n
)*(e*x)**(-5*n - 1)/n, Ne(n, 0)), (x*x**(4*n)*(e*x)**(-5*n - 1)*log(x), Tru
e)) + A*b**2*d**3*x*x**(5*n)*(e*x)**(-5*n - 1)*log(x) + B*a**2*c**3*Piecewi
se((-x*x**n*(e*x)**(-5*n - 1)/(4*n), Ne(n, 0)), (x*x**n*(e*x)**(-5*n - 1)*l
og(x), True)) + 3*B*a**2*c**2*d*Piecewise((-x*x**(2*n)*(e*x)**(-5*n - 1)/(3

```

$n)$, $Ne(n, 0)$), $(x^{2n}(e^x)^{-5n-1} \log(x), \text{True})) + 3B^{2c}d^{2d} \text{Piecewise}((-x^{3n}(e^x)^{-5n-1}/(2n), Ne(n, 0)), (x^{3n}(e^x)^{-5n-1} \log(x), \text{True})) + B^{2d}d^{3d} \text{Piecewise}((-x^{4n}(e^x)^{-5n-1}/n, Ne(n, 0)), (x^{4n}(e^x)^{-5n-1} \log(x), \text{True})) + 2B^{2d}b^{3d} \text{Piecewise}((-x^{2n}(e^x)^{-5n-1}/(3n), Ne(n, 0)), (x^{2n}(e^x)^{-5n-1} \log(x), \text{True})) + 6B^{2d}b^{2d} \text{Piecewise}((-x^{3n}(e^x)^{-5n-1}/(2n), Ne(n, 0)), (x^{3n}(e^x)^{-5n-1} \log(x), \text{True})) + 6B^{2d}b^{2d}d^{2d} \text{Piecewise}((-x^{4n}(e^x)^{-5n-1}/n, Ne(n, 0)), (x^{4n}(e^x)^{-5n-1} \log(x), \text{True})) + 2B^{2d}b^{2d}d^{3d} x^{5n}(e^x)^{-5n-1} \log(x) + B^{2d}b^{2c}d^{3d} \text{Piecewise}((-x^{3n}(e^x)^{-5n-1}/(2n), Ne(n, 0)), (x^{3n}(e^x)^{-5n-1} \log(x), \text{True})) + 3B^{2d}b^{2c}d^{2d} \text{Piecewise}((-x^{4n}(e^x)^{-5n-1}/n, Ne(n, 0)), (x^{4n}(e^x)^{-5n-1} \log(x), \text{True})) + 3B^{2d}b^{2c}d^{2d} x^{5n}(e^x)^{-5n-1} \log(x) + B^{2d}b^{2d}d^{3d} \text{Piecewise}((x^{6n}(e^x)^{-5n-1}/n, Ne(n, 0)), (x^{6n}(e^x)^{-5n-1} \log(x), \text{True})), Eq(m, -5n-1))$

$(A^{2c}d^{3d} \text{Piecewise}((0^{(-4n-1)}x, Eq(e, 0)), (\text{Piecewise}((-1/(4n)(e^x)^{4n}), Ne(n, 0)), (\log(e^x), \text{True}))/e, \text{True})) + 3A^{2c}d^{2d} \text{Piecewise}((-x^{4n}(e^x)^{-4n-1}/(3n), Ne(n, 0)), (x^{4n}(e^x)^{-4n-1} \log(x), \text{True})) + 3A^{2c}d^{2d} \text{Piecewise}((-x^{2n}(e^x)^{-4n-1}/(2n), Ne(n, 0)), (x^{2n}(e^x)^{-4n-1} \log(x), \text{True})) + A^{2d}d^{3d} \text{Piecewise}((-x^{3n}(e^x)^{-4n-1}/n, Ne(n, 0)), (x^{3n}(e^x)^{-4n-1} \log(x), \text{True})) + 2A^{2d}b^{3d} \text{Piecewise}((-x^{4n}(e^x)^{-4n-1}/(3n), Ne(n, 0)), (x^{4n}(e^x)^{-4n-1} \log(x), \text{True})) + 6A^{2d}b^{2d} \text{Piecewise}((-x^{2n}(e^x)^{-4n-1}/(2n), Ne(n, 0)), (x^{2n}(e^x)^{-4n-1} \log(x), \text{True})) + 6A^{2d}b^{2d}d^{2d} \text{Piecewise}((-x^{3n}(e^x)^{-4n-1}/n, Ne(n, 0)), (x^{3n}(e^x)^{-4n-1} \log(x), \text{True})) + 2A^{2d}b^{2d}d^{3d} x^{4n}(e^x)^{-4n-1} \log(x) + A^{2d}b^{2c}d^{3d} \text{Piecewise}((-x^{2n}(e^x)^{-4n-1}/(2n), Ne(n, 0)), (x^{2n}(e^x)^{-4n-1} \log(x), \text{True})) + 3A^{2d}b^{2c}d^{2d} \text{Piecewise}((-x^{3n}(e^x)^{-4n-1}/n, Ne(n, 0)), (x^{3n}(e^x)^{-4n-1} \log(x), \text{True})) + 3A^{2d}b^{2c}d^{2d} x^{4n}(e^x)^{-4n-1} \log(x) + A^{2d}b^{2d}d^{3d} \text{Piecewise}((x^{5n}(e^x)^{-4n-1}/n, Ne(n, 0)), (x^{5n}(e^x)^{-4n-1} \log(x), \text{True})) + B^{2c}d^{3d} \text{Piecewise}((-x^{4n}(e^x)^{-4n-1}/(3n), Ne(n, 0)), (x^{4n}(e^x)^{-4n-1} \log(x), \text{True})) + 3B^{2c}d^{2d} \text{Piecewise}((-x^{2n}(e^x)^{-4n-1}/(2n), Ne(n, 0)), (x^{2n}(e^x)^{-4n-1} \log(x), \text{True})) + 3B^{2c}d^{2d}d^{3d} x^{4n}(e^x)^{-4n-1} \log(x) + B^{2c}d^{3d} \text{Piecewise}((-x^{3n}(e^x)^{-4n-1}/n, Ne(n, 0)), (x^{3n}(e^x)^{-4n-1} \log(x), \text{True})) + 3B^{2c}d^{2d}d^{3d} x^{4n}(e^x)^{-4n-1} \log(x) + 6B^{2c}d^{2d} \text{Piecewise}((-x^{3n}(e^x)^{-4n-1}/n, Ne(n, 0)), (x^{3n}(e^x)^{-4n-1} \log(x), \text{True})) + 6B^{2c}d^{2d}d^{3d} x^{4n}(e^x)^{-4n-1} \log(x) + 2B^{2c}d^{3d} \text{Piecewise}((x^{5n}(e^x)^{-4n-1}/n, Ne(n, 0)), (x^{5n}(e^x)^{-4n-1} \log(x), \text{True})) + B^{2c}d^{2c}d^{3d} \text{Piecewise}((-x^{3n}(e^x)^{-4n-1}/n, Ne(n, 0)), (x^{3n}(e^x)^{-4n-1} \log(x), \text{True})) + 3B^{2c}d^{2c}d^{2d} \text{Piecewise}((-x^{2n}(e^x)^{-4n-1}/(2n), Ne(n, 0)), (x^{2n}(e^x)^{-4n-1} \log(x), \text{True})) + 6B^{2c}d^{2c}d^{2d} x^{4n}(e^x)^{-4n-1} \log(x) + 2B^{2c}d^{2c}d^{3d} \text{Piecewise}((x^{5n}(e^x)^{-4n-1}/n, Ne(n, 0)), (x^{5n}(e^x)^{-4n-1} \log(x), \text{True})) + B^{2c}d^{2c}d^{3d} \text{Piecewise}((-x^{3n}(e^x)^{-4n-1}/n, Ne(n, 0)), (x^{3n}(e^x)^{-4n-1} \log(x), \text{True})) + 3B^{2c}d^{2c}d^{2d} x^{4n}(e^x)^{-4n-1} \log(x)$

$$\begin{aligned}
&) + 3*B*b**2*c*d**2*Piecewise((x*x**(5*n)*(e*x)**(-4*n - 1)/n, Ne(n, 0)), (\\
& x*x**(5*n)*(e*x)**(-4*n - 1)*\log(x), True)) + B*b**2*d**3*Piecewise((x*x**(\\
& 6*n)*(e*x)**(-4*n - 1)/(2*n), Ne(n, 0)), (x*x**(6*n)*(e*x)**(-4*n - 1)*\log(\\
& x), True)), Eq(m, -4*n - 1)), (A*a**2*c**3*Piecewise((0**(-3*n - 1)*x, Eq(e \\
& , 0)), (Piecewise((-1/(3*n*(e*x)**(3*n))), Ne(n, 0)), (\log(e*x), True))/e, T \\
& rue)) + 3*A*a**2*c**2*d*Piecewise((-x*x**n*(e*x)**(-3*n - 1)/(2*n), Ne(n, 0 \\
&)), (x*x**n*(e*x)**(-3*n - 1)*\log(x), True)) + 3*A*a**2*c*d**2*Piecewise((- \\
& x*x**(2*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x*x**(2*n)*(e*x)**(-3*n - 1)*lo \\
& g(x), True)) + A*a**2*d**3*x*x**(3*n)*(e*x)**(-3*n - 1)*\log(x) + 2*A*a*b*c* \\
& *3*Piecewise((-x*x**n*(e*x)**(-3*n - 1)/(2*n), Ne(n, 0)), (x*x**n*(e*x)**(- \\
& 3*n - 1)*\log(x), True)) + 6*A*a*b*c**2*d*Piecewise((-x*x**(2*n)*(e*x)**(-3* \\
& n - 1)/n, Ne(n, 0)), (x*x**(2*n)*(e*x)**(-3*n - 1)*\log(x), True)) + 6*A*a*b \\
& *c*d**2*x*x**(3*n)*(e*x)**(-3*n - 1)*\log(x) + 2*A*a*b*d**3*Piecewise((x*x** \\
& (4*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x*x**(4*n)*(e*x)**(-3*n - 1)*\log(x), \\
& True)) + A*b**2*c**3*Piecewise((-x*x**(2*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)) \\
& , (x*x**(2*n)*(e*x)**(-3*n - 1)*\log(x), True)) + 3*A*b**2*c**2*d*x*x**(3*n) \\
& *(e*x)**(-3*n - 1)*\log(x) + 3*A*b**2*c*d**2*Piecewise((x*x**(4*n)*(e*x)**(- \\
& 3*n - 1)/n, Ne(n, 0)), (x*x**(4*n)*(e*x)**(-3*n - 1)*\log(x), True)) + A*b** \\
& 2*d**3*Piecewise((x*x**(5*n)*(e*x)**(-3*n - 1)/(2*n), Ne(n, 0)), (x*x**(5*n) \\
&)*(e*x)**(-3*n - 1)*\log(x), True)) + B*a**2*c**3*Piecewise((-x*x**n*(e*x)** \\
& (-3*n - 1)/(2*n), Ne(n, 0)), (x*x**n*(e*x)**(-3*n - 1)*\log(x), True)) + 3*B \\
& *a**2*c**2*d*Piecewise((-x*x**(2*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x*x**(\\
& 2*n)*(e*x)**(-3*n - 1)*\log(x), True)) + 3*B*a**2*c*d**2*x*x**(3*n)*(e*x)**(\\
& -3*n - 1)*\log(x) + B*a**2*d**3*Piecewise((x*x**(4*n)*(e*x)**(-3*n - 1)/n, N \\
& e(n, 0)), (x*x**(4*n)*(e*x)**(-3*n - 1)*\log(x), True)) + 2*B*a*b*c**3*Piece \\
& wise((-x*x**(2*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x*x**(2*n)*(e*x)**(-3*n \\
& - 1)*\log(x), True)) + 6*B*a*b*c**2*d*x*x**(3*n)*(e*x)**(-3*n - 1)*\log(x) + \\
& 6*B*a*b*c*d**2*Piecewise((x*x**(4*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x*x** \\
& (4*n)*(e*x)**(-3*n - 1)*\log(x), True)) + 2*B*a*b*d**3*Piecewise((x*x**(5*n) \\
& *(e*x)**(-3*n - 1)/(2*n), Ne(n, 0)), (x*x**(5*n)*(e*x)**(-3*n - 1)*\log(x), \\
& True)) + B*b**2*c**3*x*x**(3*n)*(e*x)**(-3*n - 1)*\log(x) + 3*B*b**2*c**2*d* \\
& Piecewise((x*x**(4*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x*x**(4*n)*(e*x)**(- \\
& 3*n - 1)*\log(x), True)) + 3*B*b**2*c*d**2*Piecewise((x*x**(5*n)*(e*x)**(-3* \\
& n - 1)/(2*n), Ne(n, 0)), (x*x**(5*n)*(e*x)**(-3*n - 1)*\log(x), True)) + B*b \\
& **2*d**3*Piecewise((x*x**(6*n)*(e*x)**(-3*n - 1)/(3*n), Ne(n, 0)), (x*x**(6 \\
& *n)*(e*x)**(-3*n - 1)*\log(x), True)), Eq(m, -3*n - 1)), (A*a**2*c**3*Piece \\
& wise((0**(-2*n - 1)*x, Eq(e, 0)), (Piecewise((-1/(2*n*(e*x)**(2*n))), Ne(n, 0 \\
&)), (\log(e*x), True))/e, True)) + 3*A*a**2*c**2*d*Piecewise((-x*x**n*(e*x)* \\
& *(-2*n - 1)/n, Ne(n, 0)), (x*x**n*(e*x)**(-2*n - 1)*\log(x), True)) + 3*A*a* \\
& *2*c*d**2*x*x**(2*n)*(e*x)**(-2*n - 1)*\log(x) + A*a**2*d**3*Piecewise((x*x* \\
& *(3*n)*(e*x)**(-2*n - 1)/n, Ne(n, 0)), (x*x**(3*n)*(e*x)**(-2*n - 1)*\log(x) \\
& , True)) + 2*A*a*b*c**3*Piecewise((-x*x**n*(e*x)**(-2*n - 1)/n, Ne(n, 0)), \\
& (x*x**n*(e*x)**(-2*n - 1)*\log(x), True)) + 6*A*a*b*c**2*d*x*x**(2*n)*(e*x)* \\
& *(-2*n - 1)*\log(x) + 6*A*a*b*c*d**2*Piecewise((x*x**(3*n)*(e*x)**(-2*n - 1) \\
& /n, Ne(n, 0)), (x*x**(3*n)*(e*x)**(-2*n - 1)*\log(x), True)) + 2*A*a*b*d**3*
\end{aligned}$$

$$\begin{aligned}
& \text{Piecewise}((x^{4n})(e^x)^{-2n-1}/(2n), \text{Ne}(n, 0)), (x^{4n})(e^x)^{-2n-1} \log(x), \text{True})) + A^{2n} b^{2n} c^{3n} x^{2n} (e^x)^{-2n-1} \log(x) \\
& + 3A^{2n} b^{2n} c^{2n} d \text{Piecewise}((x^{3n})(e^x)^{-2n-1}/n, \text{Ne}(n, 0)), (x^{3n})(e^x)^{-2n-1} \log(x), \text{True})) + 3A^{2n} b^{2n} c^{2n} d^{2n} \text{Piecewise}((x^{4n})(e^x)^{-2n-1}/(2n), \text{Ne}(n, 0)), (x^{4n})(e^x)^{-2n-1} \log(x), \text{True})) + A^{2n} b^{2n} d^{3n} \text{Piecewise}((x^{5n})(e^x)^{-2n-1}/(3n), \text{Ne}(n, 0)), (x^{5n})(e^x)^{-2n-1} \log(x), \text{True})) + B^{2n} a^{2n} c^{3n} \text{Piecewise}((-x^{n+1})(e^x)^{-2n-1}/n, \text{Ne}(n, 0)), (x^{n+1})(e^x)^{-2n-1} \log(x), \text{True})) + 3B^{2n} a^{2n} c^{2n} d^{2n} x^{2n} (e^x)^{-2n-1} \log(x) + 3B^{2n} a^{2n} c^{2n} d^{2n} \text{Piecewise}((x^{3n})(e^x)^{-2n-1}/n, \text{Ne}(n, 0)), (x^{3n})(e^x)^{-2n-1} \log(x), \text{True})) + B^{2n} a^{2n} d^{3n} \text{Piecewise}((x^{4n})(e^x)^{-2n-1}/(2n), \text{Ne}(n, 0)), (x^{4n})(e^x)^{-2n-1} \log(x), \text{True})) + 2B^{2n} a^{2n} b^{2n} c^{3n} x^{2n} (e^x)^{-2n-1} \log(x) + 6B^{2n} a^{2n} b^{2n} c^{2n} d \text{Piecewise}((x^{3n})(e^x)^{-2n-1}/n, \text{Ne}(n, 0)), (x^{3n})(e^x)^{-2n-1} \log(x), \text{True})) + 6B^{2n} a^{2n} b^{2n} c^{2n} d^{2n} \text{Piecewise}((x^{4n})(e^x)^{-2n-1}/(2n), \text{Ne}(n, 0)), (x^{4n})(e^x)^{-2n-1} \log(x), \text{True})) + 2B^{2n} a^{2n} b^{2n} d^{3n} \text{Piecewise}((x^{5n})(e^x)^{-2n-1}/(3n), \text{Ne}(n, 0)), (x^{5n})(e^x)^{-2n-1} \log(x), \text{True})) + B^{2n} b^{2n} c^{3n} \text{Piecewise}((x^{3n})(e^x)^{-2n-1}/n, \text{Ne}(n, 0)), (x^{3n})(e^x)^{-2n-1} \log(x), \text{True})) + 3B^{2n} b^{2n} c^{2n} d \text{Piecewise}((x^{4n})(e^x)^{-2n-1}/(2n), \text{Ne}(n, 0)), (x^{4n})(e^x)^{-2n-1} \log(x), \text{True})) + 3B^{2n} b^{2n} c^{2n} d^{2n} \text{Piecewise}((x^{5n})(e^x)^{-2n-1}/(3n), \text{Ne}(n, 0)), (x^{5n})(e^x)^{-2n-1} \log(x), \text{True})) + B^{2n} b^{2n} d^{3n} \text{Piecewise}((x^{6n})(e^x)^{-2n-1}/(4n), \text{Ne}(n, 0)), (x^{6n})(e^x)^{-2n-1} \log(x), \text{True})), \text{Eq}(m, -2n-1)), (A^{2n} a^{2n} c^{3n} \text{Piecewise}((0^{-(n-1)} x, \text{Eq}(e, 0)), (\text{Piecewise}((-1/(n(e^x)^n)), \text{Ne}(n, 0)), (\log(e^x), \text{True}))/e, \text{True})) + 3A^{2n} a^{2n} c^{2n} d^{2n} x^{n+1} (e^x)^{-n-1} \log(x) + 3A^{2n} a^{2n} c^{2n} d^{2n} \text{Piecewise}((x^{2n})(e^x)^{-n-1}/n, \text{Ne}(n, 0)), (x^{2n})(e^x)^{-n-1} \log(x), \text{True})) + A^{2n} a^{2n} d^{3n} \text{Piecewise}((x^{3n})(e^x)^{-n-1}/(2n), \text{Ne}(n, 0)), (x^{3n})(e^x)^{-n-1} \log(x), \text{True})) + 2A^{2n} a^{2n} b^{2n} c^{3n} x^{n+1} (e^x)^{-n-1} \log(x) + 6A^{2n} a^{2n} b^{2n} c^{2n} d \text{Piecewise}((x^{2n})(e^x)^{-n-1}/n, \text{Ne}(n, 0)), (x^{2n})(e^x)^{-n-1} \log(x), \text{True})) + 6A^{2n} a^{2n} b^{2n} c^{2n} d^{2n} \text{Piecewise}((x^{3n})(e^x)^{-n-1}/(2n), \text{Ne}(n, 0)), (x^{3n})(e^x)^{-n-1} \log(x), \text{True})) + 2A^{2n} a^{2n} b^{2n} d^{3n} \text{Piecewise}((x^{4n})(e^x)^{-n-1}/(3n), \text{Ne}(n, 0)), (x^{4n})(e^x)^{-n-1} \log(x), \text{True})) + A^{2n} b^{2n} c^{3n} \text{Piecewise}((x^{2n})(e^x)^{-n-1}/n, \text{Ne}(n, 0)), (x^{2n})(e^x)^{-n-1} \log(x), \text{True})) + 3A^{2n} b^{2n} c^{2n} d \text{Piecewise}((x^{3n})(e^x)^{-n-1}/(2n), \text{Ne}(n, 0)), (x^{3n})(e^x)^{-n-1} \log(x), \text{True})) + 3A^{2n} b^{2n} c^{2n} d^{2n} \text{Piecewise}((x^{4n})(e^x)^{-n-1}/(3n), \text{Ne}(n, 0)), (x^{4n})(e^x)^{-n-1} \log(x), \text{True})) + A^{2n} b^{2n} d^{3n} \text{Piecewise}((x^{5n})(e^x)^{-n-1}/(4n), \text{Ne}(n, 0)), (x^{5n})(e^x)^{-n-1} \log(x), \text{True})) + B^{2n} a^{2n} c^{3n} x^{n+1} (e^x)^{-n-1} \log(x) + 3B^{2n} a^{2n} c^{2n} d \text{Piecewise}((x^{2n})(e^x)^{-n-1}/n, \text{Ne}(n, 0)), (x^{2n})(e^x)^{-n-1} \log(x), \text{True})) + 3B^{2n} a^{2n} c^{2n} d^{2n} \text{Piecewise}((x^{3n})(e^x)^{-n-1}/(2n), \text{Ne}(n, 0)), (x^{3n})(e^x)^{-n-1} \log(x), \text{True})) + B^{2n} a^{2n} d^{3n} \text{Piecewise}((x^{4n})(e^x)^{-n-1}/(3n), \text{Ne}(n, 0))
\end{aligned}$$

$$\begin{aligned}
& m^{**5}n^{**2} + 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} + 875m^{**4}n^{**2} + 315m^{**4} \\
& *n + 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n \\
& + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2}n \\
& n^{**2} + 315m^{**2}n + 21m^{**2} + 720m^{**n}n^{**6} + 3528m^{**n}n^{**5} + 4872m^{**n}n^{**4} + 2940 \\
& *m^{**n}n^{**3} + 875m^{**n}n^{**2} + 126m^{**n} + 7m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 7 \\
& 35n^{**3} + 175n^{**2} + 21n + 1) + 210Aa^{**2}c^{**3}m^{**2}n^{**x}(e^x)^{**m}/(m^{**7} + \\
& 21m^{**6}n + 7m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} + \\
& 875m^{**4}n^{**2} + 315m^{**4}n + 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 1 \\
& 750m^{**3}n^{**2} + 420m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 44 \\
& 10m^{**2}n^{**3} + 1750m^{**2}n^{**2} + 315m^{**2}n + 21m^{**2} + 720m^{**n}n^{**6} + 3528m^{**n} \\
& n^{**5} + 4872m^{**n}n^{**4} + 2940m^{**n}n^{**3} + 875m^{**n}n^{**2} + 126m^{**n} + 7m + 720n^{**6} + \\
& 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21n + 1) + 15Aa^{**2}c^{**3}m^{**} \\
& *2x^{**}(e^x)^{**m}/(m^{**7} + 21m^{**6}n + 7m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n + 21m^{**} \\
& m^{**5} + 735m^{**4}n^{**3} + 875m^{**4}n^{**2} + 315m^{**4}n + 35m^{**4} + 1624m^{**3}n^{**} \\
& 4 + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**5} \\
& + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2}n^{**2} + 315m^{**2}n + 21m^{**2} \\
& + 720m^{**n}n^{**6} + 3528m^{**n}n^{**5} + 4872m^{**n}n^{**4} + 2940m^{**n}n^{**3} + 875m^{**n}n^{**2} + 126m^{**n} \\
& *n + 7m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21n + \\
& 1) + 1764Aa^{**2}c^{**3}m^{**n}n^{**5}x^{**}(e^x)^{**m}/(m^{**7} + 21m^{**6}n + 7m^{**6} + 175m^{**} \\
& *5n^{**2} + 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} + 875m^{**4}n^{**2} + 315m^{**4}n \\
& + 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n \\
& + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2}n^{**} \\
& *2 + 315m^{**2}n + 21m^{**2} + 720m^{**n}n^{**6} + 3528m^{**n}n^{**5} + 4872m^{**n}n^{**4} + 2940m^{**n} \\
& n^{**3} + 875m^{**n}n^{**2} + 126m^{**n} + 7m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 735 \\
& *n^{**3} + 175n^{**2} + 21n + 1) + 3248Aa^{**2}c^{**3}m^{**n}n^{**4}x^{**}(e^x)^{**m}/(m^{**7} + 2 \\
& 1m^{**6}n + 7m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} + \\
& 875m^{**4}n^{**2} + 315m^{**4}n + 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 17 \\
& 50m^{**3}n^{**2} + 420m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 441 \\
& 0m^{**2}n^{**3} + 1750m^{**2}n^{**2} + 315m^{**2}n + 21m^{**2} + 720m^{**n}n^{**6} + 3528m^{**n} \\
& n^{**5} + 4872m^{**n}n^{**4} + 2940m^{**n}n^{**3} + 875m^{**n}n^{**2} + 126m^{**n} + 7m + 720n^{**6} + 1 \\
& 764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21n + 1) + 2205Aa^{**2}c^{**3}m^{**n} \\
& n^{**3}x^{**}(e^x)^{**m}/(m^{**7} + 21m^{**6}n + 7m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n + \\
& 21m^{**5} + 735m^{**4}n^{**3} + 875m^{**4}n^{**2} + 315m^{**4}n + 35m^{**4} + 1624m^{**3}n^{**} \\
& n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n + 35m^{**3} + 1764m^{**2}n^{**} \\
& **5 + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2}n^{**2} + 315m^{**2}n + 21m^{**} \\
& *2 + 720m^{**n}n^{**6} + 3528m^{**n}n^{**5} + 4872m^{**n}n^{**4} + 2940m^{**n}n^{**3} + 875m^{**n}n^{**2} + 12 \\
& 6m^{**n} + 7m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21n \\
& + 1) + 700Aa^{**2}c^{**3}m^{**n}n^{**2}x^{**}(e^x)^{**m}/(m^{**7} + 21m^{**6}n + 7m^{**6} + 175m^{**} \\
& m^{**5}n^{**2} + 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} + 875m^{**4}n^{**2} + 315m^{**4} \\
& *n + 35m^{**4} + 1624m^{**3}n^{**4} + 2940m^{**3}n^{**3} + 1750m^{**3}n^{**2} + 420m^{**3}n \\
& + 35m^{**3} + 1764m^{**2}n^{**5} + 4872m^{**2}n^{**4} + 4410m^{**2}n^{**3} + 1750m^{**2}n^{**} \\
& n^{**2} + 315m^{**2}n + 21m^{**2} + 720m^{**n}n^{**6} + 3528m^{**n}n^{**5} + 4872m^{**n}n^{**4} + 2940 \\
& *m^{**n}n^{**3} + 875m^{**n}n^{**2} + 126m^{**n} + 7m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 7 \\
& 35n^{**3} + 175n^{**2} + 21n + 1) + 105Aa^{**2}c^{**3}m^{**n}x^{**}(e^x)^{**m}/(m^{**7} + 21m^{**} \\
& m^{**6}n + 7m^{**6} + 175m^{**5}n^{**2} + 126m^{**5}n + 21m^{**5} + 735m^{**4}n^{**3} + 87
\end{aligned}$$

$$\begin{aligned}
& 5m^{*4}n^{*2} + 315m^{*4}n + 35m^{*4} + 1624m^{*3}n^{*4} + 2940m^{*3}n^{*3} + 1750 \\
& m^{*3}n^{*2} + 420m^{*3}n + 35m^{*3} + 1764m^{*2}n^{*5} + 4872m^{*2}n^{*4} + 4410m^{*2}n^{*3} \\
& + 1750m^{*2}n^{*2} + 315m^{*2}n + 21m^{*2} + 720m^{*n}n^{*6} + 3528m^{*n}n^{*5} \\
& + 4872m^{*n}n^{*4} + 2940m^{*n}n^{*3} + 875m^{*n}n^{*2} + 126m^{*n} + 7m + 720n^{*6} + 176 \\
& 4n^{*5} + 1624n^{*4} + 735n^{*3} + 175n^{*2} + 21n + 1) + 6Aa^{*2}c^{*3}m^{*x}(e \\
& *x)^{*m}/(m^{*7} + 21m^{*6}n + 7m^{*6} + 175m^{*5}n^{*2} + 126m^{*5}n + 21m^{*5} + \\
& 735m^{*4}n^{*3} + 875m^{*4}n^{*2} + 315m^{*4}n + 35m^{*4} + 1624m^{*3}n^{*4} + 294 \\
& 0m^{*3}n^{*3} + 1750m^{*3}n^{*2} + 420m^{*3}n + 35m^{*3} + 1764m^{*2}n^{*5} + 4872 \\
& m^{*2}n^{*4} + 4410m^{*2}n^{*3} + 1750m^{*2}n^{*2} + 315m^{*2}n + 21m^{*2} + 720m^{*n} \\
& n^{*6} + 3528m^{*n}n^{*5} + 4872m^{*n}n^{*4} + 2940m^{*n}n^{*3} + 875m^{*n}n^{*2} + 126m^{*n} + 7m \\
& + 720n^{*6} + 1764n^{*5} + 1624n^{*4} + 735n^{*3} + 175n^{*2} + 21n + 1) + 72 \\
& 0Aa^{*2}c^{*3}n^{*6}x^{*}(e*x)^{*m}/(m^{*7} + 21m^{*6}n + 7m^{*6} + 175m^{*5}n^{*2} + \\
& 126m^{*5}n + 21m^{*5} + 735m^{*4}n^{*3} + 875m^{*4}n^{*2} + 315m^{*4}n + 35m^{*4} \\
& + 1624m^{*3}n^{*4} + 2940m^{*3}n^{*3} + 1750m^{*3}n^{*2} + 420m^{*3}n + 35m^{*3} \\
& + 1764m^{*2}n^{*5} + 4872m^{*2}n^{*4} + 4410m^{*2}n^{*3} + 1750m^{*2}n^{*2} + 315m^{*2}n \\
& + 21m^{*2} + 720m^{*n}n^{*6} + 3528m^{*n}n^{*5} + 4872m^{*n}n^{*4} + 2940m^{*n}n^{*3} + 87 \\
& 5m^{*n}n^{*2} + 126m^{*n} + 7m + 720n^{*6} + 1764n^{*5} + 1624n^{*4} + 735n^{*3} + 17 \\
& 5n^{*2} + 21n + 1) + 1764Aa^{*2}c^{*3}n^{*5}x^{*}(e*x)^{*m}/(m^{*7} + 21m^{*6}n + 7 \\
& m^{*6} + 175m^{*5}n^{*2} + 126m^{*5}n + 21m^{*5} + 735m^{*4}n^{*3} + 875m^{*4}n^{*2} \\
& + 315m^{*4}n + 35m^{*4} + 1624m^{*3}n^{*4} + 2940m^{*3}n^{*3} + 1750m^{*3}n^{*2} \\
& + 420m^{*3}n + 35m^{*3} + 1764m^{*2}n^{*5} + 4872m^{*2}n^{*4} + 4410m^{*2}n^{*3} \\
& + 1750m^{*2}n^{*2} + 315m^{*2}n + 21m^{*2} + 720m^{*n}n^{*6} + 3528m^{*n}n^{*5} + 4872m^{*n} \\
& n^{*4} + 2940m^{*n}n^{*3} + 875m^{*n}n^{*2} + 126m^{*n} + 7m + 720n^{*6} + 1764n^{*5} + 1 \\
& 624n^{*4} + 735n^{*3} + 175n^{*2} + 21n + 1) + 1624Aa^{*2}c^{*3}n^{*4}x^{*}(e*x) \\
& *m/(m^{*7} + 21m^{*6}n + 7m^{*6} + 175m^{*5}n^{*2} + 126m^{*5}n + 21m^{*5} + 735m^{*4}n^{*3} \\
& + 875m^{*4}n^{*2} + 315m^{*4}n + 35m^{*4} + 1624m^{*3}n^{*4} + 2940m^{*3}n^{*3} + 1750m^{*3}n^{*2} \\
& + 420m^{*3}n + 35m^{*3} + 1764m^{*2}n^{*5} + 4872m^{*2}n^{*4} + 4410m^{*2}n^{*3} + 1750m^{*2}n^{*2} \\
& + 315m^{*2}n + 21m^{*2} + 720m^{*n}n^{*6} + 3528m^{*n}n^{*5} + 4872m^{*n}n^{*4} + 2940m^{*n}n^{*3} \\
& + 875m^{*n}n^{*2} + 126m^{*n} + 7m + 720n^{*6} + 1764n^{*5} + 1624n^{*4} + 735n^{*3} + 175n^{*2} \\
& + 21n + 1) + 175Aa^{*2}c^{*3}n^{*3}x^{*}(e*x)^{*m}/(m^{*7} + 21m^{*6}n + 7m^{*6} + 175m^{*5}n^{*2} + 126m^{*5}n \\
& + 21m^{*5} + 735m^{*4}n^{*3} + 875m^{*4}n^{*2} + 315m^{*4}n + 35m^{*4} + 1 \\
& 624m^{*3}n^{*4} + 2940m^{*3}n^{*3} + 1750m^{*3}n^{*2} + 420m^{*3}n + 35m^{*3} + 17 \\
& 64m^{*2}n^{*5} + 4872m^{*2}n^{*4} + 4410m^{*2}n^{*3} + 1750m^{*2}n^{*2} + 315m^{*2}n \\
& + 21m^{*2} + 720m^{*n}n^{*6} + 3528m^{*n}n^{*5} + 4872m^{*n}n^{*4} + 2940m^{*n}n^{*3} + 875m^{*n} \\
& n^{*2} + 126m^{*n} + 7m + 720n^{*6} + 1764n^{*5} + 1624n^{*4} + 735n^{*3} + 175n^{*2} \\
& + 21n + 1) + 175Aa^{*2}c^{*3}n^{*2}x^{*}(e*x)^{*m}/(m^{*7} + 21m^{*6}n + 7m^{*6} \\
& + 175m^{*5}n^{*2} + 126m^{*5}n + 21m^{*5} + 735m^{*4}n^{*3} + 875m^{*4}n^{*2} + 3 \\
& 15m^{*4}n + 35m^{*4} + 1624m^{*3}n^{*4} + 2940m^{*3}n^{*3} + 1750m^{*3}n^{*2} + 42 \\
& 0m^{*3}n + 35m^{*3} + 1764m^{*2}n^{*5} + 4872m^{*2}n^{*4} + 4410m^{*2}n^{*3} + 175 \\
& 0m^{*2}n^{*2} + 315m^{*2}n + 21m^{*2} + 720m^{*n}n^{*6} + 3528m^{*n}n^{*5} + 4872m^{*n}n^{*4} \\
& + 2940m^{*n}n^{*3} + 875m^{*n}n^{*2} + 126m^{*n} + 7m + 720n^{*6} + 1764n^{*5} + 1624n^{*n} \\
& n^{*4} + 735n^{*3} + 175n^{*2} + 21n + 1) + 21Aa^{*2}c^{*3}n^{*x}(e*x)^{*m}/(m^{*7} + \\
& 21m^{*6}n + 7m^{*6} + 175m^{*5}n^{*2} + 126m^{*5}n + 21m^{*5} + 735m^{*4}n^{*3} \\
& + 875m^{*4}n^{*2} + 315m^{*4}n + 35m^{*4} + 1624m^{*3}n^{*4} + 2940m^{*3}n^{*3} +
\end{aligned}$$

+ 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n
 2 + 315*m2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*
 m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 73
 5*n**3 + 175*n**2 + 21*n + 1) + 1740*A*a**2*c**2*d*m**3*n**3*x*x**n*(e*x)**
 m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m
 4*n3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**
 3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2
 *n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6
 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 7
 20*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 1860*A*
 a**2*c**2*d*m**3*n**2*x*x**n*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5
 *n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n +
 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n +
 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2
 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n
 3 + 875*m*n2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n
 3 + 175*n2 + 21*n + 1) + 600*A*a**2*c**2*d*m**3*n*x*x**n*(e*x)**m/(m**7
 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**
 3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3
 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 +
 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528
 *m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6
 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 60*A*a**2*c**2
 *d*m**3*x*x**n*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m*
 5*n + 21*m5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 162
 4*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764
 *m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n
 + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n
 2 + 126*m*n + 7*m + 720*n6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2
 + 21*n + 1) + 3132*A*a**2*c**2*d*m**2*n**4*x*x**n*(e*x)**m/(m**7 + 21*m**6
 *n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m*
 4*n2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**
 3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2
 *n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 +
 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n*
 5 + 1624*n4 + 735*n**3 + 175*n**2 + 21*n + 1) + 5220*A*a**2*c**2*d*m**2*
 n**3*x*x**n*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*
 n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m
 3*n4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m*
 2*n5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 2
 1*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2
 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 +
 21*n + 1) + 2790*A*a**2*c**2*d*m**2*n**2*x*x**n*(e*x)**m/(m**7 + 21*m**6*n
 + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*
 n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n

$$\begin{aligned}
& **2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n* \\
& *3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 487 \\
& 2*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 \\
& + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 600*A*a**2*c**2*d*m**2*n*x* \\
& x**n*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21* \\
& m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n** \\
& 4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 \\
& + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 \\
& + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m \\
& *n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + \\
& 1) + 45*A*a**2*c**2*d*m**2*x*x**n*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175 \\
& *m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m** \\
& 4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3 \\
& *n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2 \\
& *n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 294 \\
& 0*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + \\
& 735*n**3 + 175*n**2 + 21*n + 1) + 2160*A*a**2*c**2*d*m*n**5*x*x**n*(e*x)**m \\
& /(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m* \\
& *4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3 \\
& *n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2* \\
& n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 \\
& + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 72 \\
& 0*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 6264*A*a \\
& **2*c**2*d*m*n**4*x*x**n*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n** \\
& 2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35* \\
& m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m \\
& **3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 3 \\
& 15*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 \\
& + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 \\
& + 175*n**2 + 21*n + 1) + 5220*A*a**2*c**2*d*m*n**3*x*x**n*(e*x)**m/(m**7 + \\
& 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + \\
& 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1 \\
& 750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 44 \\
& 10*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m* \\
& n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + \\
& 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 1860*A*a**2*c**2* \\
& d*m*n**2*x*x**n*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m \\
& **5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 16 \\
& 24*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 176 \\
& 4*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n \\
& + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n \\
& **2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n** \\
& 2 + 21*n + 1) + 300*A*a**2*c**2*d*m*n*x*x**n*(e*x)**m/(m**7 + 21*m**6*n + 7 \\
& *m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n** \\
& 2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2
\end{aligned}$$

$$\begin{aligned}
& + 420*m^{*3}*n + 35*m^{*3} + 1764*m^{*2}*n^{*5} + 4872*m^{*2}*n^{*4} + 4410*m^{*2}*n^{*3} \\
& + 1750*m^{*2}*n^{*2} + 315*m^{*2}*n + 21*m^{*2} + 720*m*n^{*6} + 3528*m*n^{*5} + 4872*m \\
& *n^{*4} + 2940*m*n^{*3} + 875*m*n^{*2} + 126*m*n + 7*m + 720*n^{*6} + 1764*n^{*5} + 1 \\
& 624*n^{*4} + 735*n^{*3} + 175*n^{*2} + 21*n + 1) + 18*A*a^{*2}*c^{*2}*d*m*x*x^{*n}*(e*x \\
&)**m/(m^{*7} + 21*m^{*6}*n + 7*m^{*6} + 175*m^{*5}*n^{*2} + 126*m^{*5}*n + 21*m^{*5} + 73 \\
& 5*m^{*4}*n^{*3} + 875*m^{*4}*n^{*2} + 315*m^{*4}*n + 35*m^{*4} + 1624*m^{*3}*n^{*4} + 2940* \\
& m^{*3}*n^{*3} + 1750*m^{*3}*n^{*2} + 420*m^{*3}*n + 35*m^{*3} + 1764*m^{*2}*n^{*5} + 4872*m \\
& **2*n^{*4} + 4410*m^{*2}*n^{*3} + 1750*m^{*2}*n^{*2} + 315*m^{*2}*n + 21*m^{*2} + 720*m*n \\
& **6 + 3528*m*n^{*5} + 4872*m*n^{*4} + 2940*m*n^{*3} + 875*m*n^{*2} + 126*m*n + 7*m \\
& + 720*n^{*6} + 1764*n^{*5} + 1624*n^{*4} + 735*n^{*3} + 175*n^{*2} + 21*n + 1) + 2160 \\
& *A*a^{*2}*c^{*2}*d*n^{*5}*x*x^{*n}*(e*x)**m/(m^{*7} + 21*m^{*6}*n + 7*m^{*6} + 175*m^{*5}*n \\
& **2 + 126*m^{*5}*n + 21*m^{*5} + 735*m^{*4}*n^{*3} + 875*m^{*4}*n^{*2} + 315*m^{*4}*n + 3 \\
& 5*m^{*4} + 1624*m^{*3}*n^{*4} + 2940*m^{*3}*n^{*3} + 1750*m^{*3}*n^{*2} + 420*m^{*3}*n + 35 \\
& *m^{*3} + 1764*m^{*2}*n^{*5} + 4872*m^{*2}*n^{*4} + 4410*m^{*2}*n^{*3} + 1750*m^{*2}*n^{*2} + \\
& 315*m^{*2}*n + 21*m^{*2} + 720*m*n^{*6} + 3528*m*n^{*5} + 4872*m*n^{*4} + 2940*m*n^{*3} \\
& + 875*m*n^{*2} + 126*m*n + 7*m + 720*n^{*6} + 1764*n^{*5} + 1624*n^{*4} + 735*n^{*3} \\
& + 175*n^{*2} + 21*n + 1) + 3132*A*a^{*2}*c^{*2}*d*n^{*4}*x*x^{*n}*(e*x)**m/(m^{*7} + \\
& 21*m^{*6}*n + 7*m^{*6} + 175*m^{*5}*n^{*2} + 126*m^{*5}*n + 21*m^{*5} + 735*m^{*4}*n^{*3} + \\
& 875*m^{*4}*n^{*2} + 315*m^{*4}*n + 35*m^{*4} + 1624*m^{*3}*n^{*4} + 2940*m^{*3}*n^{*3} + 1 \\
& 750*m^{*3}*n^{*2} + 420*m^{*3}*n + 35*m^{*3} + 1764*m^{*2}*n^{*5} + 4872*m^{*2}*n^{*4} + 44 \\
& 10*m^{*2}*n^{*3} + 1750*m^{*2}*n^{*2} + 315*m^{*2}*n + 21*m^{*2} + 720*m*n^{*6} + 3528*m* \\
& n^{*5} + 4872*m*n^{*4} + 2940*m*n^{*3} + 875*m*n^{*2} + 126*m*n + 7*m + 720*n^{*6} + \\
& 1764*n^{*5} + 1624*n^{*4} + 735*n^{*3} + 175*n^{*2} + 21*n + 1) + 1740*A*a^{*2}*c^{*2}* \\
& d*n^{*3}*x*x^{*n}*(e*x)**m/(m^{*7} + 21*m^{*6}*n + 7*m^{*6} + 175*m^{*5}*n^{*2} + 126*m^{*5} \\
& *n + 21*m^{*5} + 735*m^{*4}*n^{*3} + 875*m^{*4}*n^{*2} + 315*m^{*4}*n + 35*m^{*4} + 1624 \\
& *m^{*3}*n^{*4} + 2940*m^{*3}*n^{*3} + 1750*m^{*3}*n^{*2} + 420*m^{*3}*n + 35*m^{*3} + 1764* \\
& m^{*2}*n^{*5} + 4872*m^{*2}*n^{*4} + 4410*m^{*2}*n^{*3} + 1750*m^{*2}*n^{*2} + 315*m^{*2}*n + \\
& 21*m^{*2} + 720*m*n^{*6} + 3528*m*n^{*5} + 4872*m*n^{*4} + 2940*m*n^{*3} + 875*m*n^{*2} \\
& + 126*m*n + 7*m + 720*n^{*6} + 1764*n^{*5} + 1624*n^{*4} + 735*n^{*3} + 175*n^{*2} \\
& + 21*n + 1) + 465*A*a^{*2}*c^{*2}*d*n^{*2}*x*x^{*n}*(e*x)**m/(m^{*7} + 21*m^{*6}*n + 7* \\
& m^{*6} + 175*m^{*5}*n^{*2} + 126*m^{*5}*n + 21*m^{*5} + 735*m^{*4}*n^{*3} + 875*m^{*4}*n^{*2} \\
& + 315*m^{*4}*n + 35*m^{*4} + 1624*m^{*3}*n^{*4} + 2940*m^{*3}*n^{*3} + 1750*m^{*3}*n^{*2} \\
& + 420*m^{*3}*n + 35*m^{*3} + 1764*m^{*2}*n^{*5} + 4872*m^{*2}*n^{*4} + 4410*m^{*2}*n^{*3} + \\
& 1750*m^{*2}*n^{*2} + 315*m^{*2}*n + 21*m^{*2} + 720*m*n^{*6} + 3528*m*n^{*5} + 4872*m* \\
& n^{*4} + 2940*m*n^{*3} + 875*m*n^{*2} + 126*m*n + 7*m + 720*n^{*6} + 1764*n^{*5} + 16 \\
& 24*n^{*4} + 735*n^{*3} + 175*n^{*2} + 21*n + 1) + 60*A*a^{*2}*c^{*2}*d*n*x*x^{*n}*(e*x) \\
& **m/(m^{*7} + 21*m^{*6}*n + 7*m^{*6} + 175*m^{*5}*n^{*2} + 126*m^{*5}*n + 21*m^{*5} + 735 \\
& *m^{*4}*n^{*3} + 875*m^{*4}*n^{*2} + 315*m^{*4}*n + 35*m^{*4} + 1624*m^{*3}*n^{*4} + 2940*m \\
& **3*n^{*3} + 1750*m^{*3}*n^{*2} + 420*m^{*3}*n + 35*m^{*3} + 1764*m^{*2}*n^{*5} + 4872*m* \\
& *2*n^{*4} + 4410*m^{*2}*n^{*3} + 1750*m^{*2}*n^{*2} + 315*m^{*2}*n + 21*m^{*2} + 720*m*n \\
& *6 + 3528*m*n^{*5} + 4872*m*n^{*4} + 2940*m*n^{*3} + 875*m*n^{*2} + 126*m*n + 7*m + \\
& 720*n^{*6} + 1764*n^{*5} + 1624*n^{*4} + 735*n^{*3} + 175*n^{*2} + 21*n + 1) + 3*A*a \\
& **2*c^{*2}*d*x*x^{*n}*(e*x)**m/(m^{*7} + 21*m^{*6}*n + 7*m^{*6} + 175*m^{*5}*n^{*2} + 126 \\
& *m^{*5}*n + 21*m^{*5} + 735*m^{*4}*n^{*3} + 875*m^{*4}*n^{*2} + 315*m^{*4}*n + 35*m^{*4} + \\
& 1624*m^{*3}*n^{*4} + 2940*m^{*3}*n^{*3} + 1750*m^{*3}*n^{*2} + 420*m^{*3}*n + 35*m^{*3} + 1
\end{aligned}$$

$$\begin{aligned}
& *4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n** \\
& 5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 \\
& + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126* \\
& m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + \\
& 1) + 45*A*a**2*c*d**2*m**2*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 \\
& + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 31 \\
& 5*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420 \\
& *m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750 \\
& *m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 \\
& + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n* \\
& *4 + 735*n**3 + 175*n**2 + 21*n + 1) + 1080*A*a**2*c*d**2*m*n**5*x*x**(2*n) \\
& *(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 \\
& + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + \\
& 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4 \\
& 872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 72 \\
& 0*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + \\
& 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + \\
& 4212*A*a**2*c*d**2*m*n**4*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + \\
& 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315 \\
& *m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420* \\
& m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750* \\
& m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + \\
& 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n** \\
& 4 + 735*n**3 + 175*n**2 + 21*n + 1) + 4149*A*a**2*c*d**2*m*n**3*x*x**(2*n)* \\
& (e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 \\
& + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2 \\
& 940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 48 \\
& 72*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720 \\
& *m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + \\
& 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + \\
& 1644*A*a**2*c*d**2*m*n**2*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + \\
& 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315* \\
& m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m \\
& **3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m \\
& **2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + \\
& 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 \\
& + 735*n**3 + 175*n**2 + 21*n + 1) + 285*A*a**2*c*d**2*m*n*x*x**(2*n)*(e*x) \\
& **m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735 \\
& *m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m \\
& **3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m* \\
& *2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n* \\
& *6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + \\
& 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 18*A* \\
& a**2*c*d**2*m*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n** \\
& 2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*
\end{aligned}$$

$$\begin{aligned}
& m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} \\
& + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 3 \\
& 15*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} \\
& + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} \\
& + 175*n^{**2} + 21*n + 1) + 1080*A*a^{**2}*c*d^{**2}*n^{**5}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**7} \\
& + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} \\
& + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + \\
& 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + \\
& 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528* \\
& m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} \\
& + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 2106*A*a^{**2}*c*d \\
& **2*n^{**4}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 1 \\
& 26*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} \\
& + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + \\
& 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m* \\
& *2*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875 \\
& *m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175 \\
& *n^{**2} + 21*n + 1) + 1383*A*a^{**2}*c*d^{**2}*n^{**3}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**7} + 21* \\
& m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 87 \\
& 5*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750 \\
& *m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410* \\
& m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{** \\
& 5 + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 176 \\
& 4*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 411*A*a^{**2}*c*d^{**2}*n* \\
& *2*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{** \\
& 5*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624 \\
& *m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764* \\
& m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + \\
& 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{** \\
& 2 + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} \\
& + 21*n + 1) + 57*A*a^{**2}*c*d^{**2}*n*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7* \\
& m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} \\
& + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} \\
& + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + \\
& 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m* \\
& n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 16 \\
& 24*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 3*A*a^{**2}*c*d^{**2}*x*x^{**}(2*n)*(e*x \\
&)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 73 \\
& 5*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940* \\
& m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m \\
& **2*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n \\
& **6 + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m \\
& + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + A*a* \\
& **2*d^{**3}*m^{**6}*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} \\
& + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m
\end{aligned}$$

$$\begin{aligned}
& **4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m** \\
& *3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 31 \\
& 5*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + \\
& 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + \\
& 175*n**2 + 21*n + 1) + 18*A*a**2*d**3*m**5*n*x*x**(3*n)*(e*x)**m/(m**7 + 2 \\
& 1*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + \\
& 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 17 \\
& 50*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 441 \\
& 0*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n \\
& **5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1 \\
& 764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 6*A*a**2*d**3*m**5 \\
& *x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5* \\
& n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m \\
& **3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m \\
& **2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 2 \\
& 1*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 \\
& + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + \\
& 21*n + 1) + 121*A*a**2*d**3*m**4*n**2*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n \\
& + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4 \\
& *n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3* \\
& n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n \\
& **3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 48 \\
& 72*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 \\
& + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 90*A*a**2*d**3*m**4*n*x*x* \\
& *(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 2 \\
& 1*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n \\
& **4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n* \\
& **5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m** \\
& 2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126 \\
& *m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n \\
& + 1) + 15*A*a**2*d**3*m**4*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + \\
& 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315 \\
& *m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420* \\
& m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750* \\
& m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + \\
& 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n** \\
& 4 + 735*n**3 + 175*n**2 + 21*n + 1) + 372*A*a**2*d**3*m**3*n**3*x*x**(3*n)* \\
& (e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 \\
& + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2 \\
& 940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 48 \\
& 72*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720 \\
& *m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + \\
& 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + \\
& 484*A*a**2*d**3*m**3*n**2*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + \\
& 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*
\end{aligned}$$

$$\begin{aligned}
& m^{**4*n} + 35*m^{**4} + 1624*m^{**3*n**4} + 2940*m^{**3*n**3} + 1750*m^{**3*n**2} + 420*m \\
& **3*n + 35*m^{**3} + 1764*m^{**2*n**5} + 4872*m^{**2*n**4} + 4410*m^{**2*n**3} + 1750*m \\
& **2*n**2 + 315*m^{**2*n} + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + \\
& 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} \\
& + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 180*A*a^{**2*d**3*m**3*n*x*x**}(3*n)*(e*x \\
&)**m/(m^{**7} + 21*m^{**6*n} + 7*m^{**6} + 175*m^{**5*n**2} + 126*m^{**5*n} + 21*m^{**5} + 73 \\
& 5*m^{**4*n**3} + 875*m^{**4*n**2} + 315*m^{**4*n} + 35*m^{**4} + 1624*m^{**3*n**4} + 2940* \\
& m^{**3*n**3} + 1750*m^{**3*n**2} + 420*m^{**3*n} + 35*m^{**3} + 1764*m^{**2*n**5} + 4872*m \\
& **2*n**4 + 4410*m^{**2*n**3} + 1750*m^{**2*n**2} + 315*m^{**2*n} + 21*m^{**2} + 720*m*n \\
& **6 + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m \\
& + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 20*A \\
& *a^{**2*d**3*m**3*x*x**}(3*n)*(e*x)**m/(m^{**7} + 21*m^{**6*n} + 7*m^{**6} + 175*m^{**5*n \\
& **2} + 126*m^{**5*n} + 21*m^{**5} + 735*m^{**4*n**3} + 875*m^{**4*n**2} + 315*m^{**4*n} + 3 \\
& 5*m^{**4} + 1624*m^{**3*n**4} + 2940*m^{**3*n**3} + 1750*m^{**3*n**2} + 420*m^{**3*n} + 35 \\
& *m^{**3} + 1764*m^{**2*n**5} + 4872*m^{**2*n**4} + 4410*m^{**2*n**3} + 1750*m^{**2*n**2} + \\
& 315*m^{**2*n} + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{** \\
& 3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{** \\
& 3} + 175*n^{**2} + 21*n + 1) + 508*A*a^{**2*d**3*m**2*n**4*x*x**}(3*n)*(e*x)**m/(m \\
& **7 + 21*m^{**6*n} + 7*m^{**6} + 175*m^{**5*n**2} + 126*m^{**5*n} + 21*m^{**5} + 735*m^{**4* \\
& n**3} + 875*m^{**4*n**2} + 315*m^{**4*n} + 35*m^{**4} + 1624*m^{**3*n**4} + 2940*m^{**3*n* \\
& *3} + 1750*m^{**3*n**2} + 420*m^{**3*n} + 35*m^{**3} + 1764*m^{**2*n**5} + 4872*m^{**2*n** \\
& 4} + 4410*m^{**2*n**3} + 1750*m^{**2*n**2} + 315*m^{**2*n} + 21*m^{**2} + 720*m*n^{**6} + 3 \\
& 528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n \\
& **6 + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 1116*A*a^{**2 \\
& *d**3*m**2*n**3*x*x**}(3*n)*(e*x)**m/(m^{**7} + 21*m^{**6*n} + 7*m^{**6} + 175*m^{**5*n \\
& **2} + 126*m^{**5*n} + 21*m^{**5} + 735*m^{**4*n**3} + 875*m^{**4*n**2} + 315*m^{**4*n} + 3 \\
& 5*m^{**4} + 1624*m^{**3*n**4} + 2940*m^{**3*n**3} + 1750*m^{**3*n**2} + 420*m^{**3*n} + 35 \\
& *m^{**3} + 1764*m^{**2*n**5} + 4872*m^{**2*n**4} + 4410*m^{**2*n**3} + 1750*m^{**2*n**2} + \\
& 315*m^{**2*n} + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{** \\
& 3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{** \\
& 3} + 175*n^{**2} + 21*n + 1) + 726*A*a^{**2*d**3*m**2*n**2*x*x**}(3*n)*(e*x)**m/(m \\
& **7 + 21*m^{**6*n} + 7*m^{**6} + 175*m^{**5*n**2} + 126*m^{**5*n} + 21*m^{**5} + 735*m^{**4* \\
& n**3} + 875*m^{**4*n**2} + 315*m^{**4*n} + 35*m^{**4} + 1624*m^{**3*n**4} + 2940*m^{**3*n* \\
& *3} + 1750*m^{**3*n**2} + 420*m^{**3*n} + 35*m^{**3} + 1764*m^{**2*n**5} + 4872*m^{**2*n** \\
& 4} + 4410*m^{**2*n**3} + 1750*m^{**2*n**2} + 315*m^{**2*n} + 21*m^{**2} + 720*m*n^{**6} + 3 \\
& 528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n \\
& **6 + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 180*A*a^{**2* \\
& d**3*m**2*n*x*x**}(3*n)*(e*x)**m/(m^{**7} + 21*m^{**6*n} + 7*m^{**6} + 175*m^{**5*n**2} \\
& + 126*m^{**5*n} + 21*m^{**5} + 735*m^{**4*n**3} + 875*m^{**4*n**2} + 315*m^{**4*n} + 35*m* \\
& *4 + 1624*m^{**3*n**4} + 2940*m^{**3*n**3} + 1750*m^{**3*n**2} + 420*m^{**3*n} + 35*m** \\
& 3 + 1764*m^{**2*n**5} + 4872*m^{**2*n**4} + 4410*m^{**2*n**3} + 1750*m^{**2*n**2} + 315 \\
& *m^{**2*n} + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + \\
& 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + \\
& 175*n^{**2} + 21*n + 1) + 15*A*a^{**2*d**3*m**2*x*x**}(3*n)*(e*x)**m/(m^{**7} + 21*m \\
& **6*n + 7*m^{**6} + 175*m^{**5*n**2} + 126*m^{**5*n} + 21*m^{**5} + 735*m^{**4*n**3} + 875
\end{aligned}$$

$$\begin{aligned}
& m^{4n^2} + 315m^{4n} + 35m^4 + 1624m^{3n^4} + 2940m^{3n^3} + 1750m^{3n^2} \\
& + 420m^{3n} + 35m^3 + 1764m^{2n^5} + 4872m^{2n^4} + 4410m^{2n^3} \\
& + 1750m^{2n^2} + 315m^{2n} + 21m^2 + 720m^{n^6} + 3528m^{n^5} \\
& + 4872m^{n^4} + 2940m^{n^3} + 875m^{n^2} + 126m^n + 7m + 720n^6 + 1764n^5 \\
& + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 240Aa^2d^3m^{n^5} \\
& \times x^{(3n)}(ex)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n \\
& + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^{3n^4} \\
& + 2940m^{3n^3} + 1750m^{3n^2} + 420m^{3n} + 35m^3 + 1764m^{2n^5} \\
& + 4872m^{2n^4} + 4410m^{2n^3} + 1750m^{2n^2} + 315m^{2n} + 21m^2 \\
& + 720m^{n^6} + 3528m^{n^5} + 4872m^{n^4} + 2940m^{n^3} + 875m^{n^2} \\
& + 126m^n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + \\
& 21n + 1) + 1016Aa^2d^3m^{n^4} \\
& \times x^{(3n)}(ex)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n \\
& + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^{3n^4} \\
& + 2940m^{3n^3} + 1750m^{3n^2} + 420m^{3n} + 35m^3 + 1764m^{2n^5} \\
& + 4872m^{2n^4} + 4410m^{2n^3} + 1750m^{2n^2} + 315m^{2n} + 21m^2 \\
& + 720m^{n^6} + 3528m^{n^5} + 4872m^{n^4} + 2940m^{n^3} + 875m^{n^2} + 126m^n \\
& + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n \\
& + 1) + 1116Aa^2d^3m^{n^3} \\
& \times x^{(3n)}(ex)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n \\
& + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^{3n^4} \\
& + 2940m^{3n^3} + 1750m^{3n^2} + 420m^{3n} + 35m^3 + 1764m^{2n^5} \\
& + 4872m^{2n^4} + 4410m^{2n^3} + 1750m^{2n^2} + 315m^{2n} + 21m^2 \\
& + 720m^{n^6} + 3528m^{n^5} + 4872m^{n^4} + 2940m^{n^3} + 875m^{n^2} + 126m^n \\
& + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n \\
& + 1) + 484Aa^2d^3m^{n^2} \\
& \times x^{(3n)}(ex)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n \\
& + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^{3n^4} \\
& + 2940m^{3n^3} + 1750m^{3n^2} + 420m^{3n} + 35m^3 + 1764m^{2n^5} \\
& + 4872m^{2n^4} + 4410m^{2n^3} + 1750m^{2n^2} + 315m^{2n} + 21m^2 \\
& + 720m^{n^6} + 3528m^{n^5} + 4872m^{n^4} + 2940m^{n^3} + 875m^{n^2} + 126m^n \\
& + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n \\
& + 1) + 90Aa^2d^3m^{n^1} \\
& \times x^{(3n)}(ex)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n \\
& + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^{3n^4} \\
& + 2940m^{3n^3} + 1750m^{3n^2} + 420m^{3n} + 35m^3 + 1764m^{2n^5} \\
& + 4872m^{2n^4} + 4410m^{2n^3} + 1750m^{2n^2} + 315m^{2n} + 21m^2 \\
& + 720m^{n^6} + 3528m^{n^5} + 4872m^{n^4} + 2940m^{n^3} + 875m^{n^2} + 126m^n \\
& + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 6A \\
& a^2d^3m^{n^0} \\
& \times x^{(3n)}(ex)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n \\
& + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^{3n^4} \\
& + 2940m^{3n^3} + 1750m^{3n^2} + 420m^{3n} + 35m^3 + 1764m^{2n^5} \\
& + 4872m^{2n^4} + 4410m^{2n^3} + 1750m^{2n^2} + 315m^{2n} + 21m^2 \\
& + 720m^{n^6} + 3528m^{n^5} + 4872m^{n^4} + 2940m^{n^3} + 875m^{n^2} + 126m^n \\
& + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 240A \\
& a^2d^3n^5 \\
& \times x^{(3n)}(ex)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n \\
& + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^{3n^4} + 8
\end{aligned}$$

$$\begin{aligned}
& 75m^{4n^2} + 315m^{4n} + 35m^{4} + 1624m^{3n^4} + 2940m^{3n^3} + 1750m^{3n^2} + 420m^{3n} + 35m^{3} + 1764m^{2n^5} + 4872m^{2n^4} + 4410m^{2n^3} + 1750m^{2n^2} + 315m^{2n} + 21m^{2} + 720m^{n^6} + 3528m^{n^5} + 4872m^{n^4} + 2940m^{n^3} + 875m^{n^2} + 126m^n + 7m + 720n^{n^6} + 1764n^{n^5} + 1624n^{n^4} + 735n^{n^3} + 175n^{n^2} + 21n + 1) + 508A^2d^3n^{4x^2}(3n)(e^x)^m/(m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^{2n^5} + 4872m^{2n^4} + 4410m^{2n^3} + 1750m^{2n^2} + 315m^{2n} + 21m^2 + 720m^{n^6} + 3528m^{n^5} + 4872m^{n^4} + 2940m^{n^3} + 875m^{n^2} + 126m^n + 7m + 720n^{n^6} + 1764n^{n^5} + 1624n^{n^4} + 735n^{n^3} + 175n^{n^2} + 21n + 1) + 372A^2d^3n^3x^2(3n)(e^x)^m/(m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^{2n^5} + 4872m^{2n^4} + 4410m^{2n^3} + 1750m^{2n^2} + 315m^{2n} + 21m^2 + 720m^{n^6} + 3528m^{n^5} + 4872m^{n^4} + 2940m^{n^3} + 875m^{n^2} + 126m^n + 7m + 720n^{n^6} + 1764n^{n^5} + 1624n^{n^4} + 735n^{n^3} + 175n^{n^2} + 21n + 1) + 121A^2d^3n^2x^2(3n)(e^x)^m/(m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^{2n^5} + 4872m^{2n^4} + 4410m^{2n^3} + 1750m^{2n^2} + 315m^{2n} + 21m^2 + 720m^{n^6} + 3528m^{n^5} + 4872m^{n^4} + 2940m^{n^3} + 875m^{n^2} + 126m^n + 7m + 720n^{n^6} + 1764n^{n^5} + 1624n^{n^4} + 735n^{n^3} + 175n^{n^2} + 21n + 1) + 18A^2d^3n^2x^2(3n)(e^x)^m/(m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^{2n^5} + 4872m^{2n^4} + 4410m^{2n^3} + 1750m^{2n^2} + 315m^{2n} + 21m^2 + 720m^{n^6} + 3528m^{n^5} + 4872m^{n^4} + 2940m^{n^3} + 875m^{n^2} + 126m^n + 7m + 720n^{n^6} + 1764n^{n^5} + 1624n^{n^4} + 735n^{n^3} + 175n^{n^2} + 21n + 1) + A^2d^3x^2(3n)(e^x)^m/(m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^{2n^5} + 4872m^{2n^4} + 4410m^{2n^3} + 1750m^{2n^2} + 315m^{2n} + 21m^2 + 720m^{n^6} + 3528m^{n^5} + 4872m^{n^4} + 2940m^{n^3} + 875m^{n^2} + 126m^n + 7m + 720n^{n^6} + 1764n^{n^5} + 1624n^{n^4} + 735n^{n^3} + 175n^{n^2} + 21n + 1) + 2A^2d^3m^6x^2n(e^x)^m/(m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^{2n^5} + 4872m^{2n^4} + 4410m^{2n^3} + 1750m^{2n^2} + 315m^{2n} + 21m^2 + 720m^{n^6} + 3528m^{n^5} + 4872m^{n^4} + 2940m^{n^3} + 875m^{n^2} + 126m^n + 7m + 720n^{n^6} + 1764n^{n^5} + 1624n^{n^4} + 735n^{n^3} + 175n^{n^2} + 21n + 1) + 40A^2d^3m^5n^2x^2(e^x)^m/(m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n
\end{aligned}$$

+ 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n
 + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n*
 *2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m
 *n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735
 *n**3 + 175*n**2 + 21*n + 1) + 12*A*a*b*c**3*m**5*x*x**n*(e*x)**m/(m**7 + 2
 1*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 +
 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 17
 50*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 441
 0*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n
 5 + 4872*m*n4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1
 764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 310*A*a*b*c**3*m**
 4*n**2*x*x**n*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**
 5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624
 *m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*
 m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n +
 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**
 2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2
 + 21*n + 1) + 200*A*a*b*c**3*m**4*n*x*x**n*(e*x)**m/(m**7 + 21*m**6*n + 7*m
 6 + 175*m5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2
 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 +
 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 +
 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n
 4 + 2940*m*n3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 162
 4*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 30*A*a*b*c**3*m**4*x*x**n*(e*x)*
 *m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*
 m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m*
 *3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**
 2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**
 6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m +
 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 1160*A
 *a*b*c**3*m**3*n**3*x*x**n*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n
 2 + 126*m5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 3
 5*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35
 *m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 +
 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**
 3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**
 3 + 175*n**2 + 21*n + 1) + 1240*A*a*b*c**3*m**3*n**2*x*x**n*(e*x)**m/(m**7
 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3
 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 +
 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 +
 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*
 m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6
 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 400*A*a*b*c**3*
 m**3*n*x*x**n*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**
 5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624

$$\begin{aligned}
& + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + \\
& 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m* \\
& n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 16 \\
& 24*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 1160*A*a*b*c^{**3}*n^{**3}*x*x^{**n}*(e* \\
& x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 7 \\
& 35*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940 \\
& *m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872* \\
& m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m* \\
& n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m \\
& + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 310 \\
& *A*a*b*c^{**3}*n^{**2}*x*x^{**n}*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} \\
& + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m* \\
& **4 + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m* \\
& *3 + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 31 \\
& 5*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + \\
& 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + \\
& 175*n^{**2} + 21*n + 1) + 40*A*a*b*c^{**3}*n*x*x^{**n}*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + \\
& 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n \\
& **2 + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n* \\
& *2 + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{** \\
& 3 + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872 \\
& *m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + \\
& 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 2*A*a*b*c^{**3}*x*x^{**n}*(e*x)^{**m} \\
& /(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m* \\
& *4*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3} \\
& *n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}* \\
& n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} \\
& + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 72 \\
& 0*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 6*A*a*b* \\
& c^{**2}*d*m^{**6}*x*x^{**n}*(2*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} \\
& + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m* \\
& *4 + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{** \\
& 3 + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315 \\
& *m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + \\
& 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + \\
& 175*n^{**2} + 21*n + 1) + 114*A*a*b*c^{**2}*d*m^{**5}*n*x*x^{**n}*(2*n)*(e*x)^{**m}/(m^{**7} + \\
& 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + \\
& 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1 \\
& 750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 44 \\
& 10*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m* \\
& n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + \\
& 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 36*A*a*b*c^{**2}*d*m \\
& **5*x*x^{**n}*(2*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m* \\
& *5*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 162 \\
& 4*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764
\end{aligned}$$

$m^{2n^5} + 4872m^{2n^4} + 4410m^{2n^3} + 1750m^{2n^2} + 315m^{2n} + 21m^2 + 720m^{n^6} + 3528m^{n^5} + 4872m^{n^4} + 2940m^{n^3} + 875m^{n^2} + 126m^n + 7m + 720n^{n^6} + 1764n^{n^5} + 1624n^{n^4} + 735n^{n^3} + 175n^{n^2} + 21n + 1) + 822A^a b^c d^{m^4 n^2} x^{2n} (e^x)^m / (m^7 + 21m^6 n + 7m^6 + 175m^5 n^2 + 126m^5 n + 21m^5 + 735m^4 n^3 + 875m^4 n^2 + 315m^4 n + 35m^4 + 1624m^3 n^4 + 2940m^3 n^3 + 1750m^3 n^2 + 420m^3 n + 35m^3 + 1764m^2 n^5 + 4872m^2 n^4 + 4410m^2 n^3 + 1750m^2 n^2 + 315m^2 n + 21m^2 + 720m^{n^6} + 3528m^{n^5} + 4872m^{n^4} + 2940m^{n^3} + 875m^{n^2} + 126m^n + 7m + 720n^{n^6} + 1764n^{n^5} + 1624n^{n^4} + 735n^{n^3} + 175n^{n^2} + 21n + 1) + 570A^a b^c d^{m^4 n} x^{2n} (e^x)^m / (m^7 + 21m^6 n + 7m^6 + 175m^5 n^2 + 126m^5 n + 21m^5 + 735m^4 n^3 + 875m^4 n^2 + 315m^4 n + 35m^4 + 1624m^3 n^4 + 2940m^3 n^3 + 1750m^3 n^2 + 420m^3 n + 35m^3 + 1764m^2 n^5 + 4872m^2 n^4 + 4410m^2 n^3 + 1750m^2 n^2 + 315m^2 n + 21m^2 + 720m^{n^6} + 3528m^{n^5} + 4872m^{n^4} + 2940m^{n^3} + 875m^{n^2} + 126m^n + 7m + 720n^{n^6} + 1764n^{n^5} + 1624n^{n^4} + 735n^{n^3} + 175n^{n^2} + 21n + 1) + 90A^a b^c d^{m^4 n} x^{2n} (e^x)^m / (m^7 + 21m^6 n + 7m^6 + 175m^5 n^2 + 126m^5 n + 21m^5 + 735m^4 n^3 + 875m^4 n^2 + 315m^4 n + 35m^4 + 1624m^3 n^4 + 2940m^3 n^3 + 1750m^3 n^2 + 420m^3 n + 35m^3 + 1764m^2 n^5 + 4872m^2 n^4 + 4410m^2 n^3 + 1750m^2 n^2 + 315m^2 n + 21m^2 + 720m^{n^6} + 3528m^{n^5} + 4872m^{n^4} + 2940m^{n^3} + 875m^{n^2} + 126m^n + 7m + 720n^{n^6} + 1764n^{n^5} + 1624n^{n^4} + 735n^{n^3} + 175n^{n^2} + 21n + 1) + 2766A^a b^c d^{m^3 n^3} x^{2n} (e^x)^m / (m^7 + 21m^6 n + 7m^6 + 175m^5 n^2 + 126m^5 n + 21m^5 + 735m^4 n^3 + 875m^4 n^2 + 315m^4 n + 35m^4 + 1624m^3 n^4 + 2940m^3 n^3 + 1750m^3 n^2 + 420m^3 n + 35m^3 + 1764m^2 n^5 + 4872m^2 n^4 + 4410m^2 n^3 + 1750m^2 n^2 + 315m^2 n + 21m^2 + 720m^{n^6} + 3528m^{n^5} + 4872m^{n^4} + 2940m^{n^3} + 875m^{n^2} + 126m^n + 7m + 720n^{n^6} + 1764n^{n^5} + 1624n^{n^4} + 735n^{n^3} + 175n^{n^2} + 21n + 1) + 3288A^a b^c d^{m^3 n^2} x^{2n} (e^x)^m / (m^7 + 21m^6 n + 7m^6 + 175m^5 n^2 + 126m^5 n + 21m^5 + 735m^4 n^3 + 875m^4 n^2 + 315m^4 n + 35m^4 + 1624m^3 n^4 + 2940m^3 n^3 + 1750m^3 n^2 + 420m^3 n + 35m^3 + 1764m^2 n^5 + 4872m^2 n^4 + 4410m^2 n^3 + 1750m^2 n^2 + 315m^2 n + 21m^2 + 720m^{n^6} + 3528m^{n^5} + 4872m^{n^4} + 2940m^{n^3} + 875m^{n^2} + 126m^n + 7m + 720n^{n^6} + 1764n^{n^5} + 1624n^{n^4} + 735n^{n^3} + 175n^{n^2} + 21n + 1) + 1140A^a b^c d^{m^3 n} x^{2n} (e^x)^m / (m^7 + 21m^6 n + 7m^6 + 175m^5 n^2 + 126m^5 n + 21m^5 + 735m^4 n^3 + 875m^4 n^2 + 315m^4 n + 35m^4 + 1624m^3 n^4 + 2940m^3 n^3 + 1750m^3 n^2 + 420m^3 n + 35m^3 + 1764m^2 n^5 + 4872m^2 n^4 + 4410m^2 n^3 + 1750m^2 n^2 + 315m^2 n + 21m^2 + 720m^{n^6} + 3528m^{n^5} + 4872m^{n^4} + 2940m^{n^3} + 875m^{n^2} + 126m^n + 7m + 720n^{n^6} + 1764n^{n^5} + 1624n^{n^4} + 735n^{n^3} + 175n^{n^2} + 21n + 1) + 120A^a b^c d^{m^3 n} x^{2n} (e^x)^m / (m^7 + 21m^6 n + 7m^6 + 175m^5 n^2 + 126m^5 n + 21m^5 + 735m^4 n^3 + 875m^4 n^2 + 315m^4 n + 35m^4 + 1624m^3 n^4 + 2940m^3 n^3 + 1750m^3 n^2 +$

$$\begin{aligned}
& 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1 \\
& 750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**} \\
& *4 + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624 \\
& *n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 4212*A*a*b*c^{**2}*d*m^{**2}*n^{**4}*x*x^{**} \\
& (2*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21 \\
& *m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**} \\
& *4 + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**} \\
& 5 + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} \\
& + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126* \\
& m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + \\
& 1) + 8298*A*a*b*c^{**2}*d*m^{**2}*n^{**3}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7 \\
& *m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**} \\
& 2 + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} \\
& + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} \\
& + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m \\
& *n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1 \\
& 624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 4932*A*a*b*c^{**2}*d*m^{**2}*n^{**2}*x* \\
& x^{**}(2*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + \\
& 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3} \\
& *n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}* \\
& n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m \\
& **2 + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 1 \\
& 26*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21* \\
& n + 1) + 1140*A*a*b*c^{**2}*d*m^{**2}*n*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7 \\
& *m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**} \\
& 2 + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} \\
& + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} \\
& + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m \\
& *n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1 \\
& 624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 90*A*a*b*c^{**2}*d*m^{**2}*x*x^{**}(2*n \\
&)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**} \\
& 5 + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + \\
& 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + \\
& 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 7 \\
& 20*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n \\
& + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) \\
& + 2160*A*a*b*c^{**2}*d*m*n^{**5}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + \\
& 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315 \\
& *m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420* \\
& m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750* \\
& m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + \\
& 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**} \\
& 4 + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 8424*A*a*b*c^{**2}*d*m*n^{**4}*x*x^{**}(2*n)*(\\
& e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + \\
& 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 29
\end{aligned}$$

$$\begin{aligned}
& n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}* \\
& n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m \\
& **2 + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 1 \\
& 26*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21* \\
& n + 1) + 822*A*a*b*c**2*d*n^{**2}*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m* \\
& *6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + \\
& 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + \\
& 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1 \\
& 750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n* \\
& **4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624 \\
& *n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 114*A*a*b*c**2*d*n*x*x**(2*n)*(e* \\
& x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 7 \\
& 35*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940 \\
& *m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872* \\
& m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m* \\
& n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m \\
& + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 6*A \\
& *a*b*c**2*d*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 \\
& + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m* \\
& **4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m** \\
& 3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315 \\
& *m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + \\
& 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + \\
& 175*n**2 + 21*n + 1) + 6*A*a*b*c*d**2*m**6*x*x**(3*n)*(e*x)**m/(m**7 + 21*m \\
& **6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875 \\
& *m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750* \\
& m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m \\
& **2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 \\
& + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764 \\
& *n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 108*A*a*b*c*d**2*m**5 \\
& *n*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m** \\
& 5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624 \\
& *m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764* \\
& m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + \\
& 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n** \\
& 2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 \\
& + 21*n + 1) + 36*A*a*b*c*d**2*m**5*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + \\
& 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n* \\
& **2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n** \\
& 2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 \\
& + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872* \\
& m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + \\
& 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 726*A*a*b*c*d**2*m**4*n**2*x* \\
& x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + \\
& 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3
\end{aligned}$$

$$\begin{aligned}
& m^{*4}n + 35m^{*4} + 1624m^{*3}n^{*4} + 2940m^{*3}n^{*3} + 1750m^{*3}n^{*2} + 420m^{*3}n \\
& + 35m^{*3} + 1764m^{*2}n^{*5} + 4872m^{*2}n^{*4} + 4410m^{*2}n^{*3} + 1750m^{*2}n^{*2} \\
& + 315m^{*2}n + 21m^{*2} + 720m^{*n}n^{*6} + 3528m^{*n}n^{*5} + 4872m^{*n}n^{*4} + \\
& 2940m^{*n}n^{*3} + 875m^{*n}n^{*2} + 126m^{*n} + 7m + 720n^{*6} + 1764n^{*5} + 1624n^{*4} \\
& + 735n^{*3} + 175n^{*2} + 21n + 1) + 6696A^{*a}b^{*c}d^{*2}m^{*2}n^{*3}x^{*x}^{*3} \\
& (e^{*x})^{*m}/(m^{*7} + 21m^{*6}n + 7m^{*6} + 175m^{*5}n^{*2} + 126m^{*5}n + 21m^{*5} \\
& + 735m^{*4}n^{*3} + 875m^{*4}n^{*2} + 315m^{*4}n + 35m^{*4} + 1624m^{*3}n^{*4} + \\
& 2940m^{*3}n^{*3} + 1750m^{*3}n^{*2} + 420m^{*3}n + 35m^{*3} + 1764m^{*2}n^{*5} + 4 \\
& 872m^{*2}n^{*4} + 4410m^{*2}n^{*3} + 1750m^{*2}n^{*2} + 315m^{*2}n + 21m^{*2} + 72 \\
& 0m^{*n}n^{*6} + 3528m^{*n}n^{*5} + 4872m^{*n}n^{*4} + 2940m^{*n}n^{*3} + 875m^{*n}n^{*2} + 126m^{*n} + \\
& 7m + 720n^{*6} + 1764n^{*5} + 1624n^{*4} + 735n^{*3} + 175n^{*2} + 21n + 1) + \\
& 4356A^{*a}b^{*c}d^{*2}m^{*2}n^{*2}x^{*x}^{*3}(e^{*x})^{*m}/(m^{*7} + 21m^{*6}n + 7m^{*6} \\
& + 175m^{*5}n^{*2} + 126m^{*5}n + 21m^{*5} + 735m^{*4}n^{*3} + 875m^{*4}n^{*2} + 3 \\
& 15m^{*4}n + 35m^{*4} + 1624m^{*3}n^{*4} + 2940m^{*3}n^{*3} + 1750m^{*3}n^{*2} + 42 \\
& 0m^{*3}n + 35m^{*3} + 1764m^{*2}n^{*5} + 4872m^{*2}n^{*4} + 4410m^{*2}n^{*3} + 175 \\
& 0m^{*2}n^{*2} + 315m^{*2}n + 21m^{*2} + 720m^{*n}n^{*6} + 3528m^{*n}n^{*5} + 4872m^{*n}n^{*4} \\
& + 2940m^{*n}n^{*3} + 875m^{*n}n^{*2} + 126m^{*n} + 7m + 720n^{*6} + 1764n^{*5} + 1624n^{*4} \\
& + 735n^{*3} + 175n^{*2} + 21n + 1) + 1080A^{*a}b^{*c}d^{*2}m^{*2}n^{*x}x^{*x}^{*3}(e^{*x})^{*m} \\
& / (m^{*7} + 21m^{*6}n + 7m^{*6} + 175m^{*5}n^{*2} + 126m^{*5}n + 21m^{*5} \\
& + 735m^{*4}n^{*3} + 875m^{*4}n^{*2} + 315m^{*4}n + 35m^{*4} + 1624m^{*3}n^{*4} + \\
& 2940m^{*3}n^{*3} + 1750m^{*3}n^{*2} + 420m^{*3}n + 35m^{*3} + 1764m^{*2}n^{*5} + 4 \\
& 872m^{*2}n^{*4} + 4410m^{*2}n^{*3} + 1750m^{*2}n^{*2} + 315m^{*2}n + 21m^{*2} + 72 \\
& 0m^{*n}n^{*6} + 3528m^{*n}n^{*5} + 4872m^{*n}n^{*4} + 2940m^{*n}n^{*3} + 875m^{*n}n^{*2} + 126m^{*n} + \\
& 7m + 720n^{*6} + 1764n^{*5} + 1624n^{*4} + 735n^{*3} + 175n^{*2} + 21n + 1) + \\
& 90A^{*a}b^{*c}d^{*2}m^{*2}x^{*x}^{*3}(e^{*x})^{*m}/(m^{*7} + 21m^{*6}n + 7m^{*6} + 175m^{*5}n^{*2} \\
& + 126m^{*5}n + 21m^{*5} + 735m^{*4}n^{*3} + 875m^{*4}n^{*2} + 315m^{*4} \\
& n + 35m^{*4} + 1624m^{*3}n^{*4} + 2940m^{*3}n^{*3} + 1750m^{*3}n^{*2} + 420m^{*3}n \\
& + 35m^{*3} + 1764m^{*2}n^{*5} + 4872m^{*2}n^{*4} + 4410m^{*2}n^{*3} + 1750m^{*2}n^{*2} \\
& + 315m^{*2}n + 21m^{*2} + 720m^{*n}n^{*6} + 3528m^{*n}n^{*5} + 4872m^{*n}n^{*4} + 2940 \\
& m^{*n}n^{*3} + 875m^{*n}n^{*2} + 126m^{*n} + 7m + 720n^{*6} + 1764n^{*5} + 1624n^{*4} + 7 \\
& 35n^{*3} + 175n^{*2} + 21n + 1) + 1440A^{*a}b^{*c}d^{*2}m^{*n}n^{*5}x^{*x}^{*3}(e^{*x})^{*m} \\
& / (m^{*7} + 21m^{*6}n + 7m^{*6} + 175m^{*5}n^{*2} + 126m^{*5}n + 21m^{*5} + 735m^{*4}n^{*3} \\
& + 875m^{*4}n^{*2} + 315m^{*4}n + 35m^{*4} + 1624m^{*3}n^{*4} + 2940m^{*3}n^{*3} \\
& + 1750m^{*3}n^{*2} + 420m^{*3}n + 35m^{*3} + 1764m^{*2}n^{*5} + 4872m^{*2}n^{*4} \\
& + 4410m^{*2}n^{*3} + 1750m^{*2}n^{*2} + 315m^{*2}n + 21m^{*2} + 720m^{*n}n^{*6} \\
& + 3528m^{*n}n^{*5} + 4872m^{*n}n^{*4} + 2940m^{*n}n^{*3} + 875m^{*n}n^{*2} + 126m^{*n} + 7m + \\
& 720n^{*6} + 1764n^{*5} + 1624n^{*4} + 735n^{*3} + 175n^{*2} + 21n + 1) + 6096A^{*a}b^{*c}d^{*2} \\
& m^{*n}n^{*4}x^{*x}^{*3}(e^{*x})^{*m}/(m^{*7} + 21m^{*6}n + 7m^{*6} + 175m^{*5}n^{*2} + 126m^{*5}n \\
& + 21m^{*5} + 735m^{*4}n^{*3} + 875m^{*4}n^{*2} + 315m^{*4}n \\
& + 35m^{*4} + 1624m^{*3}n^{*4} + 2940m^{*3}n^{*3} + 1750m^{*3}n^{*2} + 420m^{*3}n + \\
& 35m^{*3} + 1764m^{*2}n^{*5} + 4872m^{*2}n^{*4} + 4410m^{*2}n^{*3} + 1750m^{*2}n^{*2} \\
& + 315m^{*2}n + 21m^{*2} + 720m^{*n}n^{*6} + 3528m^{*n}n^{*5} + 4872m^{*n}n^{*4} + 2940m^{*n} \\
& n^{*3} + 875m^{*n}n^{*2} + 126m^{*n} + 7m + 720n^{*6} + 1764n^{*5} + 1624n^{*4} + 735n^{*3} \\
& + 175n^{*2} + 21n + 1) + 6696A^{*a}b^{*c}d^{*2}m^{*n}n^{*3}x^{*x}^{*3}(e^{*x})^{*m}/ \\
& (m^{*7} + 21m^{*6}n + 7m^{*6} + 175m^{*5}n^{*2} + 126m^{*5}n + 21m^{*5} + 735m^{*4}n^{*3}
\end{aligned}$$

$4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^1n^6 + 3528m^1n^5 + 4872m^1n^4 + 2940m^1n^3 + 875m^1n^2 + 126m^1n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 2904A^a b^c d^2 m^n n^2 x^x (3n) (e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^1n^6 + 3528m^1n^5 + 4872m^1n^4 + 2940m^1n^3 + 875m^1n^2 + 126m^1n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 540A^a b^c d^2 m^n n^2 x^x (3n) (e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^1n^6 + 3528m^1n^5 + 4872m^1n^4 + 2940m^1n^3 + 875m^1n^2 + 126m^1n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 36A^a b^c d^2 m^n n^2 x^x (3n) (e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^1n^6 + 3528m^1n^5 + 4872m^1n^4 + 2940m^1n^3 + 875m^1n^2 + 126m^1n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 1440A^a b^c d^2 n^5 x^x (3n) (e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^1n^6 + 3528m^1n^5 + 4872m^1n^4 + 2940m^1n^3 + 875m^1n^2 + 126m^1n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 3048A^a b^c d^2 n^4 x^x (3n) (e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^1n^6 + 3528m^1n^5 + 4872m^1n^4 + 2940m^1n^3 + 875m^1n^2 + 126m^1n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 2232A^a b^c d^2 n^3 x^x (3n) (e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^1n^6 + 3528m^1n^5 + 4872m^1n^4 + 2940m^1n^3 + 875m^1n^2 + 126m^1n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 726A^a b^c d^2 n^2 x^x (3n) (e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 +$

$$\begin{aligned}
& n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} \\
& + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} \\
& + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3 \\
& 528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} \\
& + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 30*A*a*b*d \\
& *3*m^{**4}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 12 \\
& 6*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + \\
& 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + \\
& 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2} \\
& *n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875* \\
& m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175* \\
& n^{**2} + 21*n + 1) + 614*A*a*b*d**3*m^{**3}*n^{**3}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + 21* \\
& m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 87 \\
& 5*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750 \\
& *m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410* \\
& m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} \\
& + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 176 \\
& 4*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 856*A*a*b*d**3*m^{**3} \\
& n^{**2}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m \\
& **5*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 16 \\
& 24*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 176 \\
& 4*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n \\
& + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n \\
& **2 + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} \\
& + 21*n + 1) + 340*A*a*b*d**3*m^{**3}*n*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n \\
& + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4} \\
& *n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3} \\
& n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n \\
& **3 + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 48 \\
& 72*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} \\
& + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 40*A*a*b*d**3*m^{**3}*x*x^{**}(4 \\
& *n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m \\
& **5 + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} \\
& + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} \\
& + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + \\
& 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m \\
& n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1 \\
&) + 792*A*a*b*d**3*m^{**2}*n^{**4}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} \\
& + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 3 \\
& 15*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 42 \\
& 0*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 175 \\
& 0*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} \\
& + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n \\
& **4 + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 1842*A*a*b*d**3*m^{**2}*n^{**3}*x*x^{**}(4*n \\
&)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**
\end{aligned}$$

$5 + 735m^{4n^3} + 875m^{4n^2} + 315m^{4n} + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720mn^6 + 3528mn^5 + 4872mn^4 + 2940mn^3 + 875mn^2 + 126mn + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1)$
 $+ 1284A^3a^3b^3d^3m^2n^2x^4(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720mn^6 + 3528mn^5 + 4872mn^4 + 2940mn^3 + 875mn^2 + 126mn + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 340A^3a^3b^3d^3m^2nx^4(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720mn^6 + 3528mn^5 + 4872mn^4 + 2940mn^3 + 875mn^2 + 126mn + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 30A^3a^3b^3d^3m^2x^4(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720mn^6 + 3528mn^5 + 4872mn^4 + 2940mn^3 + 875mn^2 + 126mn + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 360A^3a^3b^3d^3m^5x^4(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720mn^6 + 3528mn^5 + 4872mn^4 + 2940mn^3 + 875mn^2 + 126mn + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 1584A^3a^3b^3d^3m^4x^4(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720mn^6 + 3528mn^5 + 4872mn^4 + 2940mn^3 + 875mn^2 + 126mn + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 1842A^3a^3b^3d^3m^3x^4(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720mn^6 + 3528mn^5 + 4872mn^4 + 2940mn^3 + 875mn^2 + 126mn + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 856A^3a^3b^3d^3m^2x^4(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n$

$$\begin{aligned}
& m^{*4}n^{*3} + 875m^{*4}n^{*2} + 315m^{*4}n + 35m^{*4} + 1624m^{*3}n^{*4} + 2940m^{*3}n^{*3} \\
& + 1750m^{*3}n^{*2} + 420m^{*3}n + 35m^{*3} + 1764m^{*2}n^{*5} + 4872m^{*2}n^{*4} \\
& + 4410m^{*2}n^{*3} + 1750m^{*2}n^{*2} + 315m^{*2}n + 21m^{*2} + 720m^{*n}n^{*6} \\
& + 3528m^{*n}n^{*5} + 4872m^{*n}n^{*4} + 2940m^{*n}n^{*3} + 875m^{*n}n^{*2} + 126m^{*n} + 7m + \\
& 720n^{*6} + 1764n^{*5} + 1624n^{*4} + 735n^{*3} + 175n^{*2} + 21n + 1) + 2A^*a^* \\
& b^{*d}x^{*x}(4n)(e^x)^m/(m^{*7} + 21m^{*6}n + 7m^{*6} + 175m^{*5}n^{*2} + 126 \\
& m^{*5}n + 21m^{*5} + 735m^{*4}n^{*3} + 875m^{*4}n^{*2} + 315m^{*4}n + 35m^{*4} + \\
& 1624m^{*3}n^{*4} + 2940m^{*3}n^{*3} + 1750m^{*3}n^{*2} + 420m^{*3}n + 35m^{*3} + 1 \\
& 764m^{*2}n^{*5} + 4872m^{*2}n^{*4} + 4410m^{*2}n^{*3} + 1750m^{*2}n^{*2} + 315m^{*2} \\
& *n + 21m^{*2} + 720m^{*n}n^{*6} + 3528m^{*n}n^{*5} + 4872m^{*n}n^{*4} + 2940m^{*n}n^{*3} + 875m \\
& *n^{*2} + 126m^{*n} + 7m + 720n^{*6} + 1764n^{*5} + 1624n^{*4} + 735n^{*3} + 175n \\
& **2 + 21n + 1) + A^*b^{*2}c^{*3}m^{*6}x^{*x}(2n)(e^x)^m/(m^{*7} + 21m^{*6}n + \\
& 7m^{*6} + 175m^{*5}n^{*2} + 126m^{*5}n + 21m^{*5} + 735m^{*4}n^{*3} + 875m^{*4}n^{*2} \\
& *2 + 315m^{*4}n + 35m^{*4} + 1624m^{*3}n^{*4} + 2940m^{*3}n^{*3} + 1750m^{*3}n^{*2} \\
& + 420m^{*3}n + 35m^{*3} + 1764m^{*2}n^{*5} + 4872m^{*2}n^{*4} + 4410m^{*2}n^{*3} \\
& + 1750m^{*2}n^{*2} + 315m^{*2}n + 21m^{*2} + 720m^{*n}n^{*6} + 3528m^{*n}n^{*5} + 4872 \\
& m^{*n}n^{*4} + 2940m^{*n}n^{*3} + 875m^{*n}n^{*2} + 126m^{*n} + 7m + 720n^{*6} + 1764n^{*5} + \\
& 1624n^{*4} + 735n^{*3} + 175n^{*2} + 21n + 1) + 19A^*b^{*2}c^{*3}m^{*5}n^*x^{*x}(2 \\
& *n)(e^x)^m/(m^{*7} + 21m^{*6}n + 7m^{*6} + 175m^{*5}n^{*2} + 126m^{*5}n + 21m \\
& **5 + 735m^{*4}n^{*3} + 875m^{*4}n^{*2} + 315m^{*4}n + 35m^{*4} + 1624m^{*3}n^{*4} \\
& + 2940m^{*3}n^{*3} + 1750m^{*3}n^{*2} + 420m^{*3}n + 35m^{*3} + 1764m^{*2}n^{*5} \\
& + 4872m^{*2}n^{*4} + 4410m^{*2}n^{*3} + 1750m^{*2}n^{*2} + 315m^{*2}n + 21m^{*2} + \\
& 720m^{*n}n^{*6} + 3528m^{*n}n^{*5} + 4872m^{*n}n^{*4} + 2940m^{*n}n^{*3} + 875m^{*n}n^{*2} + 126m^{*n} \\
& n + 7m + 720n^{*6} + 1764n^{*5} + 1624n^{*4} + 735n^{*3} + 175n^{*2} + 21n + 1 \\
&) + 6A^*b^{*2}c^{*3}m^{*5}x^{*x}(2n)(e^x)^m/(m^{*7} + 21m^{*6}n + 7m^{*6} + 175 \\
& m^{*5}n^{*2} + 126m^{*5}n + 21m^{*5} + 735m^{*4}n^{*3} + 875m^{*4}n^{*2} + 315m^{*4} \\
& 4n + 35m^{*4} + 1624m^{*3}n^{*4} + 2940m^{*3}n^{*3} + 1750m^{*3}n^{*2} + 420m^{*3} \\
& *n + 35m^{*3} + 1764m^{*2}n^{*5} + 4872m^{*2}n^{*4} + 4410m^{*2}n^{*3} + 1750m^{*2} \\
& *n^{*2} + 315m^{*2}n + 21m^{*2} + 720m^{*n}n^{*6} + 3528m^{*n}n^{*5} + 4872m^{*n}n^{*4} + 294 \\
& 0m^{*n}n^{*3} + 875m^{*n}n^{*2} + 126m^{*n} + 7m + 720n^{*6} + 1764n^{*5} + 1624n^{*4} + \\
& 735n^{*3} + 175n^{*2} + 21n + 1) + 137A^*b^{*2}c^{*3}m^{*4}n^{*2}x^{*x}(2n)(e^x \\
&)^m/(m^{*7} + 21m^{*6}n + 7m^{*6} + 175m^{*5}n^{*2} + 126m^{*5}n + 21m^{*5} + 73 \\
& 5m^{*4}n^{*3} + 875m^{*4}n^{*2} + 315m^{*4}n + 35m^{*4} + 1624m^{*3}n^{*4} + 2940 \\
& m^{*3}n^{*3} + 1750m^{*3}n^{*2} + 420m^{*3}n + 35m^{*3} + 1764m^{*2}n^{*5} + 4872m \\
& **2n^{*4} + 4410m^{*2}n^{*3} + 1750m^{*2}n^{*2} + 315m^{*2}n + 21m^{*2} + 720m^{*n} \\
& **6 + 3528m^{*n}n^{*5} + 4872m^{*n}n^{*4} + 2940m^{*n}n^{*3} + 875m^{*n}n^{*2} + 126m^{*n} + 7m \\
& + 720n^{*6} + 1764n^{*5} + 1624n^{*4} + 735n^{*3} + 175n^{*2} + 21n + 1) + 95A^* \\
& b^{*2}c^{*3}m^{*4}n^*x^{*x}(2n)(e^x)^m/(m^{*7} + 21m^{*6}n + 7m^{*6} + 175m^{*5} \\
& n^{*2} + 126m^{*5}n + 21m^{*5} + 735m^{*4}n^{*3} + 875m^{*4}n^{*2} + 315m^{*4}n + \\
& 35m^{*4} + 1624m^{*3}n^{*4} + 2940m^{*3}n^{*3} + 1750m^{*3}n^{*2} + 420m^{*3}n + \\
& 35m^{*3} + 1764m^{*2}n^{*5} + 4872m^{*2}n^{*4} + 4410m^{*2}n^{*3} + 1750m^{*2}n^{*2} \\
& + 315m^{*2}n + 21m^{*2} + 720m^{*n}n^{*6} + 3528m^{*n}n^{*5} + 4872m^{*n}n^{*4} + 2940m^{*n} \\
& **3 + 875m^{*n}n^{*2} + 126m^{*n} + 7m + 720n^{*6} + 1764n^{*5} + 1624n^{*4} + 735n \\
& **3 + 175n^{*2} + 21n + 1) + 15A^*b^{*2}c^{*3}m^{*4}x^{*x}(2n)(e^x)^m/(m^{*7} \\
& + 21m^{*6}n + 7m^{*6} + 175m^{*5}n^{*2} + 126m^{*5}n + 21m^{*5} + 735m^{*4}n^{*3}
\end{aligned}$$

$$\begin{aligned}
& + 875m^{4n} + 315m^{4n} + 35m^{4n} + 1624m^{3n} + 2940m^{3n} + 1750m^{3n} + 420m^{3n} + 35m^{3n} + 1764m^{2n} + 4872m^{2n} + 4410m^{2n} \\
& + 1750m^{2n} + 315m^{2n} + 21m^{2n} + 720m^{2n} + 3528m^{2n} + 4872m^{2n} + 2940m^{2n} + 875m^{2n} + 126m^{2n} + 7m^{2n} + 720m^{2n} \\
& + 1764m^{2n} + 1624m^{2n} + 735m^{2n} + 175m^{2n} + 21m^{2n} + 1) + 461A^2b^2c^3 \\
& \cdot m^{3n} x^{2n} (e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 \\
& + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n \\
& + 21m^2 + 720m^{2n} + 3528m^{2n} + 4872m^{2n} + 2940m^{2n} + 875m^{2n} + 126m^{2n} + 7m^{2n} + 720m^{2n} + 1764m^{2n} + 1624m^{2n} + 735m^{2n} + 1 \\
& 75m^{2n} + 21m^{2n} + 1) + 548A^2b^2c^3m^3 x^{2n} (e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 \\
& + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n \\
& + 21m^2 + 720m^{2n} + 3528m^{2n} + 4872m^{2n} + 2940m^{2n} + 875m^{2n} + 126m^{2n} + 7m^{2n} + 720m^{2n} + 1764m^{2n} + 1624m^{2n} + 735m^{2n} + 1 \\
& 75m^{2n} + 21m^{2n} + 1) + 190A^2b^2c^3m^3 x^{2n} (e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + \\
& 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^{2n} + 3528m^{2n} + 4872m^{2n} + 2940m^{2n} + 875m^{2n} \\
& + 126m^{2n} + 7m^{2n} + 720m^{2n} + 1764m^{2n} + 1624m^{2n} + 735m^{2n} + 175m^{2n} + 21m^{2n} + 1) + 20A^2b^2c^3m^3 x^{2n} (e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^{2n} + 3528m^{2n} + 4872m^{2n} + 2940m^{2n} + 875m^{2n} + 126m^{2n} + 7m^{2n} + 720m^{2n} + 1764m^{2n} + 1624m^{2n} + 735m^{2n} + 175m^{2n} + 21m^{2n} + 1) + 702A^2b^2c^3m^2n^4 x^{2n} (e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^{2n} + 3528m^{2n} + 4872m^{2n} + 2940m^{2n} + 875m^{2n} + 126m^{2n} + 7m^{2n} + 720m^{2n} + 1764m^{2n} + 1624m^{2n} + 735m^{2n} + 175m^{2n} + 21m^{2n} + 1) + 1383A^2b^2c^3m^2n^3 x^{2n} (e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^{2n} + 3528m^{2n} + 4872m^{2n} + 2940m^{2n} + 875m^{2n} + 126m^{2n} + 7m^{2n} + 720m^{2n} + 1764m^{2n} + 1624m^{2n} + 735m^{2n} + 175m^{2n} + 21m^{2n} + 1) + 822A^2b^2c^3m^2n^2 x^{2n} (e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^{2n} + 3528m^{2n} + 4872m^{2n} + 2940m^{2n} + 875m^{2n} + 126m^{2n} + 7m^{2n} + 720m^{2n} + 1764m^{2n} + 1624m^{2n} + 735m^{2n} + 175m^{2n} + 21m^{2n} + 1)
\end{aligned}$$

$$\begin{aligned}
& 6m^{5n} + 21m^{5n} + 735m^{4n} + 875m^{4n} + 315m^{4n} + 35m^{4n} + \\
& 1624m^{3n} + 2940m^{3n} + 1750m^{3n} + 420m^{3n} + 35m^{3n} + \\
& 1764m^{2n} + 4872m^{2n} + 4410m^{2n} + 1750m^{2n} + 315m^{2n} + \\
& 21m^{2n} + 720m^{2n} + 3528m^{2n} + 4872m^{2n} + 2940m^{2n} + 875m^{2n} + \\
& 126m^{2n} + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + \\
& 21n + 1) + 6A^2c^3m^2x^{2n}(ex)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^{2n} + 3528m^{2n} + 4872m^{2n} + 2940m^{2n} + 875m^{2n} + 126m^{2n} + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 360A^2c^3n^5x^{2n}(ex)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^{2n} + 3528m^{2n} + 4872m^{2n} + 2940m^{2n} + 875m^{2n} + 126m^{2n} + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 702A^2c^3n^4x^{2n}(ex)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^{2n} + 3528m^{2n} + 4872m^{2n} + 2940m^{2n} + 875m^{2n} + 126m^{2n} + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 461A^2c^3n^3x^{2n}(ex)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^{2n} + 3528m^{2n} + 4872m^{2n} + 2940m^{2n} + 875m^{2n} + 126m^{2n} + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 137A^2c^3n^2x^{2n}(ex)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^{2n} + 3528m^{2n} + 4872m^{2n} + 2940m^{2n} + 875m^{2n} + 126m^{2n} + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 19A^2c^3n^2x^{2n}(ex)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^{2n} + 3528m^{2n} + 4872m^{2n} + 2940m^{2n} + 875m^{2n} + 126m^{2n} + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + A^2c^3x^{2n}(ex)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5
\end{aligned}$$

$$\begin{aligned}
& + 735m^{4n+3} + 875m^{4n+2} + 315m^{4n} + 35m^4 + 1624m^{3n+4} + 2 \\
& 940m^{3n+3} + 1750m^{3n+2} + 420m^{3n} + 35m^3 + 1764m^{2n+5} + 48 \\
& 72m^{2n+4} + 4410m^{2n+3} + 1750m^{2n+2} + 315m^{2n} + 21m^2 + 720 \\
& m^{n+6} + 3528m^{n+5} + 4872m^{n+4} + 2940m^{n+3} + 875m^{n+2} + 126m^n + \\
& 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + \\
& 3A^2c^2d^6x^{3n}(e^x)^m/(m^7 + 21m^6n + 7m^6 + 175m \\
& ^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n \\
& + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n \\
& + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n \\
& ^2 + 315m^2n + 21m^2 + 720m^{n+6} + 3528m^{n+5} + 4872m^{n+4} + 2940 \\
& m^{n+3} + 875m^{n+2} + 126m^n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 73 \\
& 5n^3 + 175n^2 + 21n + 1) + 54A^2c^2d^5n^2x^{3n}(e^x)^m \\
& / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^ \\
& ^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3 \\
& ^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^ \\
& ^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^{n+6} \\
& + 3528m^{n+5} + 4872m^{n+4} + 2940m^{n+3} + 875m^{n+2} + 126m^n + 7m + 72 \\
& 0n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 18A^2c^ \\
& ^2d^5x^{3n}(e^x)^m/(m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n \\
& + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35 \\
& m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m \\
& ^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 3 \\
& 15m^2n + 21m^2 + 720m^{n+6} + 3528m^{n+5} + 4872m^{n+4} + 2940m^{n+3} \\
& + 875m^{n+2} + 126m^n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 \\
& + 175n^2 + 21n + 1) + 363A^2c^2d^4n^2x^{3n}(e^x)^m/(m \\
& ^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n \\
& ^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^ \\
& ^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^ \\
& ^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^{n+6} + 3 \\
& 528m^{n+5} + 4872m^{n+4} + 2940m^{n+3} + 875m^{n+2} + 126m^n + 7m + 720n \\
& ^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 270A^2c^ \\
& ^2d^4n^2x^{3n}(e^x)^m/(m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n \\
& + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35 \\
& m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m \\
& ^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 3 \\
& 15m^2n + 21m^2 + 720m^{n+6} + 3528m^{n+5} + 4872m^{n+4} + 2940m^{n+3} \\
& + 875m^{n+2} + 126m^n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 \\
& + 175n^2 + 21n + 1) + 45A^2c^2d^4x^{3n}(e^x)^m/(m^7 + \\
& 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + \\
& 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1 \\
& 750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 44 \\
& 10m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^{n+6} + 3528m^ \\
& ^n+5 + 4872m^{n+4} + 2940m^{n+3} + 875m^{n+2} + 126m^n + 7m + 720n^6 + \\
& 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 1116A^2c^2d^ \\
& ^3n^3x^{3n}(e^x)^m/(m^7 + 21m^6n + 7m^6 + 175m^5n^2
\end{aligned}$$

$$\begin{aligned}
& (3n)(e^x)^m / (m^7 + 21m^6n + 7m^5n^2 + 175m^4n^3 + 126m^3n^4 + 21m^2n^5 + 735m^2n^3 + 875m^2n^2 + 315m^2n + 35m^2 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) \\
& + 720A^2b^2c^2d^5x^3(e^x)^m / (m^7 + 21m^6n + 7m^5n^2 + 175m^4n^3 + 126m^3n^4 + 21m^2n^5 + 735m^2n^3 + 875m^2n^2 + 315m^2n + 35m^2 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) \\
& + 1524A^2b^2c^2d^4x^3(e^x)^m / (m^7 + 21m^6n + 7m^5n^2 + 126m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) \\
& + 1116A^2b^2c^2d^3x^3(e^x)^m / (m^7 + 21m^6n + 7m^5n^2 + 126m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) \\
& + 363A^2b^2c^2d^2x^3(e^x)^m / (m^7 + 21m^6n + 7m^5n^2 + 126m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) \\
& + 54A^2b^2c^2d^2x^3(e^x)^m / (m^7 + 21m^6n + 7m^5n^2 + 126m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) \\
& + 3A^2b^2c^2d^2x^3(e^x)^m / (m^7 + 21m^6n + 7m^5n^2 + 126m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) \\
& + 3A^2b^2c^2d^2m^6x^3
\end{aligned}$$

$$\begin{aligned}
& ** (4*n) * (e*x) ** m / (m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + \\
& 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n \\
& n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n \\
& **5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m* \\
& *2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 12 \\
& 6*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n \\
& + 1) + 51*A*b**2*c*d**2*m**5*n*x*x** (4*n) * (e*x) ** m / (m**7 + 21*m**6*n + 7*m \\
& **6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 \\
& + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + \\
& 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + \\
& 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n \\
& **4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 162 \\
& 4*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 18*A*b**2*c*d**2*m**5*x*x** (4*n) \\
& * (e*x) ** m / (m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 \\
& + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + \\
& 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4 \\
& 872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 72 \\
& 0*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + \\
& 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + \\
& 321*A*b**2*c*d**2*m**4*n**2*x*x** (4*n) * (e*x) ** m / (m**7 + 21*m**6*n + 7*m**6 \\
& + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 3 \\
& 15*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 42 \\
& 0*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 175 \\
& 0*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 \\
& + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n \\
& **4 + 735*n**3 + 175*n**2 + 21*n + 1) + 255*A*b**2*c*d**2*m**4*n*x*x** (4*n) \\
& * (e*x) ** m / (m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 \\
& + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + \\
& 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4 \\
& 872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 72 \\
& 0*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + \\
& 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + \\
& 45*A*b**2*c*d**2*m**4*x*x** (4*n) * (e*x) ** m / (m**7 + 21*m**6*n + 7*m**6 + 175 \\
& *m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m** \\
& 4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3 \\
& *n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2 \\
& *n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 294 \\
& 0*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + \\
& 735*n**3 + 175*n**2 + 21*n + 1) + 921*A*b**2*c*d**2*m**3*n**3*x*x** (4*n) * (e \\
& *x) ** m / (m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + \\
& 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 294 \\
& 0*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872 \\
& *m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m \\
& *n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7* \\
& m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 12
\end{aligned}$$

$$\begin{aligned}
& 84*A*b**2*c*d**2*m**3*n**2*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + \\
& 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315 \\
& *m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420* \\
& m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750* \\
& m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + \\
& 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n** \\
& 4 + 735*n**3 + 175*n**2 + 21*n + 1) + 510*A*b**2*c*d**2*m**3*n*x*x**(4*n)*(\\
& e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + \\
& 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 29 \\
& 40*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 487 \\
& 2*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720* \\
& m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7 \\
& *m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 6 \\
& 0*A*b**2*c*d**2*m**3*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m \\
& **5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4* \\
& n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n \\
& + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n \\
& **2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940* \\
& m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 73 \\
& 5*n**3 + 175*n**2 + 21*n + 1) + 1188*A*b**2*c*d**2*m**2*n**4*x*x**(4*n)*(e*x) \\
& **m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 7 \\
& 35*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940 \\
& *m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872* \\
& m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m \\
& n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m \\
& + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 276 \\
& 3*A*b**2*c*d**2*m**2*n**3*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + \\
& 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315* \\
& m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m \\
& **3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m \\
& **2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + \\
& 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 \\
& + 735*n**3 + 175*n**2 + 21*n + 1) + 1926*A*b**2*c*d**2*m**2*n**2*x*x**(4*n) \\
& *(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m** \\
& 5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + \\
& 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + \\
& 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 7 \\
& 20*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n \\
& + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) \\
& + 510*A*b**2*c*d**2*m**2*n*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + \\
& 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315 \\
& *m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420* \\
& m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750* \\
& m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + \\
& 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**
\end{aligned}$$

$$\begin{aligned}
& 4 + 735n^3 + 175n^2 + 21n + 1) + 45A^2b^2c^2d^2m^2x^4(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 540A^2b^2c^2d^2m^5x^4(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 2376A^2b^2c^2d^2m^4x^4(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 2763A^2b^2c^2d^2m^3x^4(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 1284A^2b^2c^2d^2m^2x^4(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 255A^2b^2c^2d^2m^2x^4(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 18A^2b^2c^2d^2m^2x^4(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 17
\end{aligned}$$

$$\begin{aligned}
& n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 16*A*b^{**2}*d^{**3}*m^{**5}*n \\
& x*x^{**}(5*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n \\
& + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{** \\
& *3*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{** \\
& 2*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21 \\
& *m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + \\
& 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 2 \\
& 1*n + 1) + 6*A*b^{**2}*d^{**3}*m^{**5}*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{** \\
& 6 + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + \\
& 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 4 \\
& 20*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 17 \\
& 50*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{** \\
& 4 + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624* \\
& n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 95*A*b^{**2}*d^{**3}*m^{**4}*n^{**2}*x*x^{**}(5*n \\
&)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{** \\
& 5 + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + \\
& 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + \\
& 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 7 \\
& 20*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n \\
& + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) \\
& + 80*A*b^{**2}*d^{**3}*m^{**4}*n*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 17 \\
& 5*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{** \\
& *4*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{** \\
& 3*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{** \\
& 2*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 29 \\
& 40*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + \\
& 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 15*A*b^{**2}*d^{**3}*m^{**4}*x*x^{**}(5*n)*(e*x)^{**m}/ \\
& (m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{** \\
& 4*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}* \\
& n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n \\
& **4 + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + \\
& 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720 \\
& *n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 260*A*b^{** \\
& 2}*d^{**3}*m^{**3}*n^{**3}*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}* \\
& n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + \\
& 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 3 \\
& 5*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} \\
& + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n* \\
& *3 + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n* \\
& *3 + 175*n^{**2} + 21*n + 1) + 380*A*b^{**2}*d^{**3}*m^{**3}*n^{**2}*x*x^{**}(5*n)*(e*x)^{**m}/(\\
& m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4} \\
& *n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n \\
& **3 + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n* \\
& *4 + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + \\
& 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*
\end{aligned}$$

$n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 160*A*b^{**2}$
 $*d^{**3}*m^{**3}*n*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2}$
 $+ 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m$
 $**4 + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m$
 $**3 + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 31$
 $5*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} +$
 $875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} +$
 $175*n^{**2} + 21*n + 1) + 20*A*b^{**2}*d^{**3}*m^{**3}*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**7} + 21*$
 $m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 87$
 $5*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750$
 $*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*$
 $m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**$
 $5 + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 176$
 $4*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 324*A*b^{**2}*d^{**3}*m^{**2}$
 $*n^{**4}*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*$
 $m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1$
 $624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 17$
 $64*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n$
 $+ 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n$
 $**2 + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n$
 $**2 + 21*n + 1) + 780*A*b^{**2}*d^{**3}*m^{**2}*n^{**3}*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**7} + 21*m$
 $**6*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875$
 $*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*$
 $m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m$
 $**2*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5}$
 $+ 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764$
 $*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 570*A*b^{**2}*d^{**3}*m^{**2}$
 $*n^{**2}*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m$
 $**5*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 16$
 $24*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 176$
 $4*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n$
 $+ 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n$
 $**2 + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n$
 $**2 + 21*n + 1) + 160*A*b^{**2}*d^{**3}*m^{**2}*n*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}$
 $*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m$
 $**4*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}$
 $*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}$
 $*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4$
 $872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n$
 $**5 + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 15*A*b^{**2}*d^{**3}*m^{**2}*x*x^{**}$
 $(5*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21$
 $*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n$
 $**4 + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n$
 $**5 + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2}$
 $+ 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*$

$$\begin{aligned}
& m^n + 7m + 720n^{**6} + 1764n^{**5} + 1624n^{**4} + 735n^{**3} + 175n^{**2} + 21n + \\
& 1) + 144*A*b^{**2}*d^{**3}*m^n*5*x*x^{**}(5n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} \\
& + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 3 \\
& 15*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 42 \\
& 0*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 175 \\
& 0*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m^n*6 + 3528*m^n*5 + 4872*m^n*4 \\
& + 2940*m^n*3 + 875*m^n*2 + 126*m^n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} \\
& + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 648*A*b^{**2}*d^{**3}*m^n*4*x*x^{**}(5n)*(\\
& e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + \\
& 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 29 \\
& 40*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 487 \\
& 2*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720* \\
& m^n*6 + 3528*m^n*5 + 4872*m^n*4 + 2940*m^n*3 + 875*m^n*2 + 126*m^n + 7 \\
& *m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 7 \\
& 80*A*b^{**2}*d^{**3}*m^n*3*x*x^{**}(5n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175* \\
& m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4} \\
& *n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}* \\
& n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}* \\
& n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m^n*6 + 3528*m^n*5 + 4872*m^n*4 + 2940 \\
& *m^n*3 + 875*m^n*2 + 126*m^n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 7 \\
& 35*n^{**3} + 175*n^{**2} + 21*n + 1) + 380*A*b^{**2}*d^{**3}*m^n*2*x*x^{**}(5n)*(e*x)^{**m} \\
& /(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m* \\
& *4*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3} \\
& *n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}* \\
& n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m^n*6 \\
& + 3528*m^n*5 + 4872*m^n*4 + 2940*m^n*3 + 875*m^n*2 + 126*m^n + 7*m + 72 \\
& 0*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 80*A*b^{** \\
& 2}*d^{**3}*m^n*x*x^{**}(5n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + \\
& 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{** \\
& 4 + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} \\
& + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315* \\
& m^{**2}*n + 21*m^{**2} + 720*m^n*6 + 3528*m^n*5 + 4872*m^n*4 + 2940*m^n*3 + 8 \\
& 75*m^n*2 + 126*m^n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 1 \\
& 75*n^{**2} + 21*n + 1) + 6*A*b^{**2}*d^{**3}*m*x*x^{**}(5n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n \\
& + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4} \\
& *n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}* \\
& n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n \\
& **3 + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m^n*6 + 3528*m^n*5 + 48 \\
& 72*m^n*4 + 2940*m^n*3 + 875*m^n*2 + 126*m^n + 7*m + 720*n^{**6} + 1764*n^{**5} \\
& + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 144*A*b^{**2}*d^{**3}*n^{**5}*x*x^{**} \\
& (5n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21 \\
& *m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n* \\
& *4 + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{** \\
& 5 + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} \\
& + 720*m^n*6 + 3528*m^n*5 + 4872*m^n*4 + 2940*m^n*3 + 875*m^n*2 + 126*
\end{aligned}$$

$$\begin{aligned}
& m^n + 7^m + 720^n m^6 + 1764^n m^5 + 1624^n m^4 + 735^n m^3 + 175^n m^2 + 21^n + 1) + 324 A^2 b^2 d^3 n^4 x^x (5^n) (e^x)^m / (m^7 + 21 m^6 n + 7 m^6 + 175 m^5 n^2 + 126 m^5 n + 21 m^5 + 735 m^4 n^3 + 875 m^4 n^2 + 315 m^4 n + 35 m^4 + 1624 m^3 n^4 + 2940 m^3 n^3 + 1750 m^3 n^2 + 420 m^3 n + 35 m^3 + 1764 m^2 n^5 + 4872 m^2 n^4 + 4410 m^2 n^3 + 1750 m^2 n^2 + 315 m^2 n + 21 m^2 + 720 m n^6 + 3528 m n^5 + 4872 m n^4 + 2940 m n^3 + 875 m n^2 + 126 m n + 7^m + 720^n m^6 + 1764^n m^5 + 1624^n m^4 + 735^n m^3 + 175^n m^2 + 21^n + 1) + 260 A^2 b^2 d^3 n^3 x^x (5^n) (e^x)^m / (m^7 + 21 m^6 n + 7 m^6 + 175 m^5 n^2 + 126 m^5 n + 21 m^5 + 735 m^4 n^3 + 875 m^4 n^2 + 315 m^4 n + 35 m^4 + 1624 m^3 n^4 + 2940 m^3 n^3 + 1750 m^3 n^2 + 420 m^3 n + 35 m^3 + 1764 m^2 n^5 + 4872 m^2 n^4 + 4410 m^2 n^3 + 1750 m^2 n^2 + 315 m^2 n + 21 m^2 + 720 m n^6 + 3528 m n^5 + 4872 m n^4 + 2940 m n^3 + 875 m n^2 + 126 m n + 7^m + 720^n m^6 + 1764^n m^5 + 1624^n m^4 + 735^n m^3 + 175^n m^2 + 21^n + 1) + 95 A^2 b^2 d^3 n^2 x^x (5^n) (e^x)^m / (m^7 + 21 m^6 n + 7 m^6 + 175 m^5 n^2 + 126 m^5 n + 21 m^5 + 735 m^4 n^3 + 875 m^4 n^2 + 315 m^4 n + 35 m^4 + 1624 m^3 n^4 + 2940 m^3 n^3 + 1750 m^3 n^2 + 420 m^3 n + 35 m^3 + 1764 m^2 n^5 + 4872 m^2 n^4 + 4410 m^2 n^3 + 1750 m^2 n^2 + 315 m^2 n + 21 m^2 + 720 m n^6 + 3528 m n^5 + 4872 m n^4 + 2940 m n^3 + 875 m n^2 + 126 m n + 7^m + 720^n m^6 + 1764^n m^5 + 1624^n m^4 + 735^n m^3 + 175^n m^2 + 21^n + 1) + 16 A^2 b^2 d^3 n x^x (5^n) (e^x)^m / (m^7 + 21 m^6 n + 7 m^6 + 175 m^5 n^2 + 126 m^5 n + 21 m^5 + 735 m^4 n^3 + 875 m^4 n^2 + 315 m^4 n + 35 m^4 + 1624 m^3 n^4 + 2940 m^3 n^3 + 1750 m^3 n^2 + 420 m^3 n + 35 m^3 + 1764 m^2 n^5 + 4872 m^2 n^4 + 4410 m^2 n^3 + 1750 m^2 n^2 + 315 m^2 n + 21 m^2 + 720 m n^6 + 3528 m n^5 + 4872 m n^4 + 2940 m n^3 + 875 m n^2 + 126 m n + 7^m + 720^n m^6 + 1764^n m^5 + 1624^n m^4 + 735^n m^3 + 175^n m^2 + 21^n + 1) + A^2 b^2 d^3 x^x (5^n) (e^x)^m / (m^7 + 21 m^6 n + 7 m^6 + 175 m^5 n^2 + 126 m^5 n + 21 m^5 + 735 m^4 n^3 + 875 m^4 n^2 + 315 m^4 n + 35 m^4 + 1624 m^3 n^4 + 2940 m^3 n^3 + 1750 m^3 n^2 + 420 m^3 n + 35 m^3 + 1764 m^2 n^5 + 4872 m^2 n^4 + 4410 m^2 n^3 + 1750 m^2 n^2 + 315 m^2 n + 21 m^2 + 720 m n^6 + 3528 m n^5 + 4872 m n^4 + 2940 m n^3 + 875 m n^2 + 126 m n + 7^m + 720^n m^6 + 1764^n m^5 + 1624^n m^4 + 735^n m^3 + 175^n m^2 + 21^n + 1) + B^2 a^2 c^3 m^6 x^x n (e^x)^m / (m^7 + 21 m^6 n + 7 m^6 + 175 m^5 n^2 + 126 m^5 n + 21 m^5 + 735 m^4 n^3 + 875 m^4 n^2 + 315 m^4 n + 35 m^4 + 1624 m^3 n^4 + 2940 m^3 n^3 + 1750 m^3 n^2 + 420 m^3 n + 35 m^3 + 1764 m^2 n^5 + 4872 m^2 n^4 + 4410 m^2 n^3 + 1750 m^2 n^2 + 315 m^2 n + 21 m^2 + 720 m n^6 + 3528 m n^5 + 4872 m n^4 + 2940 m n^3 + 875 m n^2 + 126 m n + 7^m + 720^n m^6 + 1764^n m^5 + 1624^n m^4 + 735^n m^3 + 175^n m^2 + 21^n + 1) + 20 B^2 a^2 c^3 m^5 n x^x n (e^x)^m / (m^7 + 21 m^6 n + 7 m^6 + 175 m^5 n^2 + 126 m^5 n + 21 m^5 + 735 m^4 n^3 + 875 m^4 n^2 + 315 m^4 n + 35 m^4 + 1624 m^3 n^4 + 2940 m^3 n^3 + 1750 m^3 n^2 + 420 m^3 n + 35 m^3 + 1764 m^2 n^5 + 4872 m^2 n^4 + 4410 m^2 n^3 + 1750 m^2 n^2 + 315 m^2 n + 21 m^2 + 720 m n^6 + 3528 m n^5 + 4872 m n^4 + 2940 m n^3 + 875 m n^2 + 126 m n + 7^m + 720^n m^6 + 1764^n m^5 + 1624^n m^4 + 735^n m^3 + 175^n m^2 + 21^n + 1) + 176
\end{aligned}$$

$n^4 + 735n^3 + 175n^2 + 21n + 1) + 20B^2c^3m^3x^2x^n(e^x) \cdot m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 1044B^2c^3m^2n^4x^2x^n(e^x) \cdot m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 1740B^2c^3m^2n^3x^2x^n(e^x) \cdot m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 930B^2c^3m^2n^2x^2x^n(e^x) \cdot m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 200B^2c^3m^2n^2x^2x^n(e^x) \cdot m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 15B^2c^3m^2x^2x^n(e^x) \cdot m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 720B^2c^3m^2n^5x^2x^n(e^x) \cdot m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1)$

$$\begin{aligned}
& 5n^3 + 175n^2 + 21n + 1) + 2088B^2c^3m^4x^2x^n(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 \\
& + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 \\
& + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^1n^6 + 3528m^1n^5 + 4872m^1n^4 + 2940m^1n^3 + 875m^1n^2 + 126m^1n + 7m + 720n^6 \\
& + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 1740B^2c^3m^3n^3x^2x^n(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n \\
& + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 \\
& + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^1n^6 + 3528m^1n^5 + 4872m^1n^4 + 2940m^1n^3 + 875m^1n^2 + 126m^1n + 7m + 720n^6 \\
& + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 620B^2c^3m^2n^2x^2x^n(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n \\
& + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 \\
& + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^1n^6 + 3528m^1n^5 + 4872m^1n^4 + 2940m^1n^3 + 875m^1n^2 + 126m^1n + 7m + 720n^6 \\
& + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 100B^2c^3m^1n^1x^2x^n(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n \\
& + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 \\
& + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^1n^6 + 3528m^1n^5 + 4872m^1n^4 + 2940m^1n^3 + 875m^1n^2 + 126m^1n + 7m + 720n^6 \\
& + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 6B^2c^3m^0n^0x^2x^n(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n \\
& + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 \\
& + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^1n^6 + 3528m^1n^5 + 4872m^1n^4 + 2940m^1n^3 + 875m^1n^2 + 126m^1n + 7m + 720n^6 \\
& + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 720B^2c^3n^5x^2x^n(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n \\
& + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 \\
& + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^1n^6 + 3528m^1n^5 + 4872m^1n^4 + 2940m^1n^3 + 875m^1n^2 + 126m^1n + 7m + 720n^6 \\
& + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 1044B^2c^3n^4x^2x^n(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n \\
& + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 \\
& + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^1n^6 + 3528m^1n^5 + 4872m^1n^4 + 2940m^1n^3 + 875m^1n^2 + 126m^1n + 7m + 720n^6 \\
& + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1)
\end{aligned}$$

$$\begin{aligned}
& 1) + 580*B*a**2*c**3*n**3*x*x**n*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175 \\
& *m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m** \\
& 4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3 \\
& *n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2 \\
& *n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 294 \\
& 0*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + \\
& 735*n**3 + 175*n**2 + 21*n + 1) + 155*B*a**2*c**3*n**2*x*x**n*(e*x)**m/(m** \\
& 7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n* \\
& *3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 \\
& + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 \\
& + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 352 \\
& 8*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n** \\
& 6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 20*B*a**2*c** \\
& 3*n*x*x**n*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n \\
& + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m* \\
& *3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m** \\
& 2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21 \\
& *m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + \\
& 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 2 \\
& 1*n + 1) + B*a**2*c**3*x*x**n*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m** \\
& 5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n \\
& + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + \\
& 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n** \\
& 2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m* \\
& n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735* \\
& n**3 + 175*n**2 + 21*n + 1) + 3*B*a**2*c**2*d*m**6*x*x**(2*n)*(e*x)**m/(m** \\
& 7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n* \\
& *3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 \\
& + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 \\
& + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 352 \\
& 8*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n** \\
& 6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 57*B*a**2*c** \\
& 2*d*m**5*n*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + \\
& 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m** \\
& 4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 \\
& + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315* \\
& m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 8 \\
& 75*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 1 \\
& 75*n**2 + 21*n + 1) + 18*B*a**2*c**2*d*m**5*x*x**(2*n)*(e*x)**m/(m**7 + 21* \\
& m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 87 \\
& 5*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750 \\
& *m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410* \\
& m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n** \\
& 5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 176 \\
& 4*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 411*B*a**2*c**2*d*m*
\end{aligned}$$

$$\begin{aligned}
& 21*n + 1) + 2106*B*a**2*c**2*d*m**2*n**4*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 4149*B*a**2*c**2*d*m**2*n**3*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 2466*B*a**2*c**2*d*m**2*n**2*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 570*B*a**2*c**2*d*m**2*n*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 45*B*a**2*c**2*d*m**2*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 1080*B*a**2*c**2*d*m*n**5*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 4212*B*a**2*c**2*d*m*n**4*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1)
\end{aligned}$$

$5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 4149B^2c^2d^2m^3n^3$
 $x^2(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n$
 $n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m$
 $^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m$
 $^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 2$
 $1m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2$
 $+ 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 +$
 $21n + 1) + 1644B^2c^2d^2m^2n^2x^2(e^x)^m / (m^7 + 21m^6n$
 $+ 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4$
 $n^2 + 315m^4n + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n$
 $+ 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2$
 $+ 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 48$
 $72m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5$
 $+ 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 285B^2c^2d^2m^2n^2x^2$
 $(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 2$
 $1m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n$
 $^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n$
 $^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2$
 $+ 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126$
 $m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n$
 $+ 1) + 18B^2c^2d^2m^2n^2x^2(e^x)^m / (m^7 + 21m^6n + 7m^6 +$
 $175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315$
 $m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m$
 $^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m$
 $^2n^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 +$
 $2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4$
 $+ 735n^3 + 175n^2 + 21n + 1) + 1080B^2c^2d^2n^5x^2(e^x)^m / (m^7 +$
 $21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 7$
 $35m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940$
 $m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872$
 $m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m$
 $n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m$
 $+ 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 210$
 $6B^2c^2d^2n^4x^2(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m$
 $^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n$
 $+ 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n$
 $+ 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n$
 $^2 + 315m^2n + 21m^2 + 720m^2n^6 + 3528m^2n^5 + 4872m^2n^4 + 2940$
 $m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 73$
 $5n^3 + 175n^2 + 21n + 1) + 1383B^2c^2d^2n^3x^2(e^x)^m$
 $/ (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m$
 $^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3$
 $n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n$
 $^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^2n^6$
 $+ 3528m^2n^5 + 4872m^2n^4 + 2940m^2n^3 + 875m^2n^2 + 126m^2n + 7m + 72$

$+ 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 270$
 $*B*a^{**2}*c*d^{**2}*m^{**4}*n*x*x^{**3}*n*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*$
 $m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}$
 $*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n$
 $+ 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n$
 $^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940$
 $*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 7$
 $35*n^{**3} + 175*n^{**2} + 21*n + 1) + 45*B*a^{**2}*c*d^{**2}*m^{**4}*x*x^{**3}*n*(e*x)^{**m}/$
 $(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}$
 $*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n$
 $^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n$
 $^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} +$
 $3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720$
 $*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 1116*B*a*$
 $*2*c*d^{**2}*m^{**3}*n^{**3}*x*x^{**3}*n*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m*$
 $*5*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n$
 $+ 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n$
 $+ 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n$
 $^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m$
 $*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735$
 $*n^{**3} + 175*n^{**2} + 21*n + 1) + 1452*B*a^{**2}*c*d^{**2}*m^{**3}*n^{**2}*x*x^{**3}*n*(e*x)$
 $)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 73$
 $5*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*$
 $m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m$
 $^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n$
 $^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m$
 $+ 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 540*$
 $B*a^{**2}*c*d^{**2}*m^{**3}*n*x*x^{**3}*n*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m$
 $^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n$
 $+ 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n$
 $+ 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n$
 $^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*$
 $m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 73$
 $5*n^{**3} + 175*n^{**2} + 21*n + 1) + 60*B*a^{**2}*c*d^{**2}*m^{**3}*x*x^{**3}*n*(e*x)^{**m}/($
 $m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}$
 $*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n$
 $^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n$
 $^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} +$
 $3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*$
 $n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 1524*B*a*$
 $*2*c*d^{**2}*m^{**2}*n^{**4}*x*x^{**3}*n*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m*$
 $*5*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n$
 $+ 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n$
 $+ 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n$
 $^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*$

$528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n$
 $**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 1452*B*a**2$
 $*c*d**2*m*n**2*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n*$
 $*2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35$
 $*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*$
 $m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 +$
 $315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3$
 $+ 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3$
 $+ 175*n**2 + 21*n + 1) + 270*B*a**2*c*d**2*m*n*x*x**(3*n)*(e*x)**m/(m**7 +$
 $21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3$
 $+ 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 +$
 $1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4$
 $410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m$
 $*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 +$
 $1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 18*B*a**2*c*d**2$
 $*m*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**$
 $5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624$
 $*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*$
 $m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n +$
 $21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**$
 $2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2$
 $+ 21*n + 1) + 720*B*a**2*c*d**2*n**5*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n$
 $+ 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*$
 $n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n$
 $**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n*$
 $*3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 487$
 $2*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5$
 $+ 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 1524*B*a**2*c*d**2*n**4*x*x$
 $**3*(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n +$
 $21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*$
 $n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n$
 $**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m*$
 $*2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 12$
 $6*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n$
 $+ 1) + 1116*B*a**2*c*d**2*n**3*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m$
 $**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2$
 $+ 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 +$
 $420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 +$
 $1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n$
 $**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 162$
 $4*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 363*B*a**2*c*d**2*n**2*x*x**(3*n)$
 $)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**$
 $5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 +$
 $2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 +$
 $4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 7$

$20*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n$
 $+ 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1)$
 $+ 54*B*a**2*c*d**2*n*x*x*(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m$
 $**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n$
 $+ 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n$
 $+ 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n$
 $**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*$
 $m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 73$
 $5*n**3 + 175*n**2 + 21*n + 1) + 3*B*a**2*c*d**2*x*x*(3*n)*(e*x)**m/(m**7 +$
 $21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3$
 $+ 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 +$
 $1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4$
 $410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m$
 $*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 +$
 $1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + B*a**2*d**3*m**6$
 $*x*x*(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*$
 $n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m$
 $**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m*$
 $**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 2$
 $1*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2$
 $+ 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 +$
 $21*n + 1) + 17*B*a**2*d**3*m**5*n*x*x*(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7$
 $*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**$
 $2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2$
 $+ 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3$
 $+ 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m$
 $*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1$
 $624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 6*B*a**2*d**3*m**5*x*x*(4*n)*$
 $(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5$
 $+ 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2$
 $940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 48$
 $72*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720$
 $*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n +$
 $7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) +$
 $107*B*a**2*d**3*m**4*n**2*x*x*(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 +$
 $175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*$
 $m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m$
 $**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m$
 $**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 +$
 $2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4$
 $+ 735*n**3 + 175*n**2 + 21*n + 1) + 85*B*a**2*d**3*m**4*n*x*x*(4*n)*(e*x)$
 $**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735$
 $*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m$
 $**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m*$
 $**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n*$

$$\begin{aligned}
& *6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + \\
& 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 15*B* \\
& a**2*d**3*m**4*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n* \\
& *2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35 \\
& *m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35* \\
& m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + \\
& 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 \\
& + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 \\
& + 175*n**2 + 21*n + 1) + 307*B*a**2*d**3*m**3*n**3*x*x**(4*n)*(e*x)**m/(m* \\
& *7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n \\
& **3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n** \\
& 3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 \\
& + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 35 \\
& 28*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n* \\
& *6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 428*B*a**2*d \\
& **3*m**3*n**2*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n** \\
& 2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35* \\
& m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m \\
& **3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 3 \\
& 15*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 \\
& + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 \\
& + 175*n**2 + 21*n + 1) + 170*B*a**2*d**3*m**3*n*x*x**(4*n)*(e*x)**m/(m**7 + \\
& 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 \\
& + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + \\
& 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4 \\
& 410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m \\
& *n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + \\
& 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 20*B*a**2*d**3*m \\
& **3*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m* \\
& *5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 162 \\
& 4*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764 \\
& *m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n \\
& + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n* \\
& *2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 \\
& + 21*n + 1) + 396*B*a**2*d**3*m**2*n**4*x*x**(4*n)*(e*x)**m/(m**7 + 21*m** \\
& 6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m \\
& **4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m* \\
& *3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m** \\
& 2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + \\
& 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n \\
& **5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 921*B*a**2*d**3*m**2*n* \\
& *3*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m** \\
& 5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624 \\
& *m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764* \\
& m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n +
\end{aligned}$$

$$\begin{aligned}
& 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} \\
& + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} \\
& + 21*n + 1) + 642*B*a^{**2}*d^{**3}*m^{**2}*n^{**2}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6} \\
& *n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4} \\
& *n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3} \\
& *n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2} \\
& *n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + \\
& 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} \\
& + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 170*B*a^{**2}*d^{**3}*m^{**2}*n*x \\
& *x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n \\
& + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3} \\
& *n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2} \\
& *n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21* \\
& m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + \\
& 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21 \\
& *n + 1) + 15*B*a^{**2}*d^{**3}*m^{**2}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} \\
& + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + \\
& 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 4 \\
& 20*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 17 \\
& 50*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} \\
& + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624* \\
& n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 180*B*a^{**2}*d^{**3}*m*n^{**5}*x*x^{**}(4*n)* \\
& (e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} \\
& + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2 \\
& 940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 48 \\
& 72*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720 \\
& *m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + \\
& 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + \\
& 792*B*a^{**2}*d^{**3}*m*n^{**4}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175 \\
& *m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4} \\
& *n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3} \\
& *n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2} \\
& *n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 294 \\
& 0*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + \\
& 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 921*B*a^{**2}*d^{**3}*m*n^{**3}*x*x^{**}(4*n)*(e*x)^{**} \\
& m/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m \\
& **4*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3} \\
& *n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2} \\
& *n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} \\
& + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 7 \\
& 20*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 428*B*a \\
& **2*d^{**3}*m*n^{**2}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n \\
& **2 + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 3 \\
& 5*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35 \\
& *m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} +
\end{aligned}$$

$$\begin{aligned}
& + 21m^2 + 720mn^6 + 3528m^2n^5 + 4872m^3n^4 + 2940m^4n^3 + 875m^5n^2 + 126m^6n + 7m^7 + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 \\
& + 21n + 1) + B^2d^3x^4(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315 \\
& m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750 \\
& m^2n^2 + 315m^2n + 21m^2 + 720mn^6 + 3528m^2n^5 + 4872m^3n^4 + 2940m^4n^3 + 875m^5n^2 + 126m^6n + 7m^7 + 720n^6 + 1764n^5 + 1624n^4 \\
& + 735n^3 + 175n^2 + 21n + 1) + 2B^3abc^3m^6x^2(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n \\
& + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720mn^6 \\
& + 3528m^2n^5 + 4872m^3n^4 + 2940m^4n^3 + 875m^5n^2 + 126m^6n + 7m^7 + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 38B^4abc^3m^5n^2x^2(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 \\
& + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 \\
& + 1750m^2n^2 + 315m^2n + 21m^2 + 720mn^6 + 3528m^2n^5 + 4872m^3n^4 + 2940m^4n^3 + 875m^5n^2 + 126m^6n + 7m^7 + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + \\
& 175n^2 + 21n + 1) + 12B^5abc^3m^5x^2(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 \\
& + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720mn^6 + 3528m^2n^5 \\
& + 4872m^3n^4 + 2940m^4n^3 + 875m^5n^2 + 126m^6n + 7m^7 + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 274B^6abc^3m^4n^2x^2(e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n \\
& + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 \\
& + 315m^2n + 21m^2 + 720mn^6 + 3528m^2n^5 + 4872m^3n^4 + 2940m^4n^3 + 875m^5n^2 + 126m^6n + 7m^7 + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 190B^7abc^3m^4n^2x^2(e^x)^m / (m^7 + 21m^6n \\
& + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 \\
& + 1750m^2n^2 + 315m^2n + 21m^2 + 720mn^6 + 3528m^2n^5 + 4872m^3n^4 + 2940m^4n^3 + 875m^5n^2 + 126m^6n + 7m^7 + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 30B^8abc^3m^4x^2(2n) \\
& (e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 \\
& + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720mn^6 + 3528m^2n^5 + 4872m^3n^4 + 2940m^4n^3 + 875m^5n^2 + 126m^6n + 7m^7 + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 30B^8abc^3m^4x^2(2n) \\
& (e^x)^m / (m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 \\
& + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720mn^6 + 3528m^2n^5 + 4872m^3n^4 + 2940m^4n^3 + 875m^5n^2 + 126m^6n + 7m^7 + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1)
\end{aligned}$$

$$\begin{aligned}
& 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n \\
& + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) \\
& + 922*B*a*b*c**3*m**3*n**3*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 \\
& + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 31 \\
& 5*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420 \\
& *m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750 \\
& *m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 \\
& + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n** \\
& *4 + 735*n**3 + 175*n**2 + 21*n + 1) + 1096*B*a*b*c**3*m**3*n**2*x*x**(2*n) \\
& *(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 \\
& + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + \\
& 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4 \\
& 872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 72 \\
& 0*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + \\
& 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + \\
& 380*B*a*b*c**3*m**3*n*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175 \\
& *m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m** \\
& 4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3 \\
& *n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2 \\
& *n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 294 \\
& 0*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + \\
& 735*n**3 + 175*n**2 + 21*n + 1) + 40*B*a*b*c**3*m**3*x*x**(2*n)*(e*x)**m/(m \\
& **7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4* \\
& n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n* \\
& *3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n** \\
& 4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3 \\
& 528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n \\
& **6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 1404*B*a*b* \\
& c**3*m**2*n**4*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n* \\
& *2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35 \\
& *m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35* \\
& m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + \\
& 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 \\
& + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 \\
& + 175*n**2 + 21*n + 1) + 2766*B*a*b*c**3*m**2*n**3*x*x**(2*n)*(e*x)**m/(m* \\
& *7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n \\
& **3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n** \\
& 3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 \\
& + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 35 \\
& 28*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n* \\
& **6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 1644*B*a*b*c \\
& **3*m**2*n**2*x*x**(2*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n** \\
& 2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35* \\
& m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m \\
& **3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 3
\end{aligned}$$

$15m^{2n} + 21m^{2n} + 720m^{n^6} + 3528m^{n^5} + 4872m^{n^4} + 2940m^{n^3}$
 $+ 875m^{n^2} + 126m^n + 7m + 720n^{n^6} + 1764n^{n^5} + 1624n^{n^4} + 735n^{n^3}$
 $+ 175n^{n^2} + 21n + 1) + 380B^*a^*b^*c^{*3}m^{*2}n^*x^*x^{*2}n^*(e^*x)^{**}/(m^{*7} +$
 $21m^{*6}n + 7m^{*6} + 175m^{*5}n^{*2} + 126m^{*5}n + 21m^{*5} + 735m^{*4}n^{*3} +$
 $875m^{*4}n^{*2} + 315m^{*4}n + 35m^{*4} + 1624m^{*3}n^{*4} + 2940m^{*3}n^{*3} + 1$
 $750m^{*3}n^{*2} + 420m^{*3}n + 35m^{*3} + 1764m^{*2}n^{*5} + 4872m^{*2}n^{*4} + 44$
 $10m^{*2}n^{*3} + 1750m^{*2}n^{*2} + 315m^{*2}n + 21m^{*2} + 720m^{*n^6} + 3528m^{*n^5}$
 $+ 4872m^{*n^4} + 2940m^{*n^3} + 875m^{*n^2} + 126m^n + 7m + 720n^{n^6} +$
 $1764n^{n^5} + 1624n^{n^4} + 735n^{n^3} + 175n^{n^2} + 21n + 1) + 30B^*a^*b^*c^{*3}m^{*2}$
 $x^*x^{*2}n^*(e^*x)^{**}/(m^{*7} + 21m^{*6}n + 7m^{*6} + 175m^{*5}n^{*2} + 126m^{*5}$
 $n + 21m^{*5} + 735m^{*4}n^{*3} + 875m^{*4}n^{*2} + 315m^{*4}n + 35m^{*4} + 1624m^{*3}$
 $n^{*4} + 2940m^{*3}n^{*3} + 1750m^{*3}n^{*2} + 420m^{*3}n + 35m^{*3} + 1764m^{*2}$
 $n^{*5} + 4872m^{*2}n^{*4} + 4410m^{*2}n^{*3} + 1750m^{*2}n^{*2} + 315m^{*2}n +$
 $21m^{*2} + 720m^{*n^6} + 3528m^{*n^5} + 4872m^{*n^4} + 2940m^{*n^3} + 875m^{*n^2}$
 $+ 126m^n + 7m + 720n^{n^6} + 1764n^{n^5} + 1624n^{n^4} + 735n^{n^3} + 175n^{n^2} +$
 $21n + 1) + 720B^*a^*b^*c^{*3}m^{*n^5}x^*x^{*2}n^*(e^*x)^{**}/(m^{*7} + 21m^{*6}n +$
 $7m^{*6} + 175m^{*5}n^{*2} + 126m^{*5}n + 21m^{*5} + 735m^{*4}n^{*3} + 875m^{*4}n^{*2}$
 $+ 315m^{*4}n + 35m^{*4} + 1624m^{*3}n^{*4} + 2940m^{*3}n^{*3} + 1750m^{*3}n^{*2}$
 $+ 420m^{*3}n + 35m^{*3} + 1764m^{*2}n^{*5} + 4872m^{*2}n^{*4} + 4410m^{*2}n^{*3}$
 $+ 1750m^{*2}n^{*2} + 315m^{*2}n + 21m^{*2} + 720m^{*n^6} + 3528m^{*n^5} + 4872m^{*n^4}$
 $+ 2940m^{*n^3} + 875m^{*n^2} + 126m^n + 7m + 720n^{n^6} + 1764n^{n^5} +$
 $1624n^{n^4} + 735n^{n^3} + 175n^{n^2} + 21n + 1) + 2808B^*a^*b^*c^{*3}m^{*n^4}x^*x^{*2}n^*(e^*x)^{**}/(m^{*7} +$
 $21m^{*6}n + 7m^{*6} + 175m^{*5}n^{*2} + 126m^{*5}n + 21m^{*5} + 735m^{*4}n^{*3} +$
 $875m^{*4}n^{*2} + 315m^{*4}n + 35m^{*4} + 1624m^{*3}n^{*4} + 2940m^{*3}n^{*3} + 1750m^{*3}n^{*2}$
 $+ 420m^{*3}n + 35m^{*3} + 1764m^{*2}n^{*5} + 4872m^{*2}n^{*4} + 4410m^{*2}n^{*3}$
 $+ 1750m^{*2}n^{*2} + 315m^{*2}n + 21m^{*2} + 720m^{*n^6} + 3528m^{*n^5} + 4872m^{*n^4}$
 $+ 2940m^{*n^3} + 875m^{*n^2} + 126m^n + 7m + 720n^{n^6} + 1764n^{n^5} +$
 $1624n^{n^4} + 735n^{n^3} + 175n^{n^2} + 21n + 1) + 2766B^*a^*b^*c^{*3}m^{*n^3}x^*x^{*2}n^*(e^*x)^{**}/(m^{*7} +$
 $21m^{*6}n + 7m^{*6} + 175m^{*5}n^{*2} + 126m^{*5}n + 21m^{*5} + 735m^{*4}n^{*3} +$
 $875m^{*4}n^{*2} + 315m^{*4}n + 35m^{*4} + 1624m^{*3}n^{*4} + 2940m^{*3}n^{*3} + 1750m^{*3}n^{*2}$
 $+ 420m^{*3}n + 35m^{*3} + 1764m^{*2}n^{*5} + 4872m^{*2}n^{*4} + 4410m^{*2}n^{*3} + 1750$
 $m^{*2}n^{*2} + 315m^{*2}n + 21m^{*2} + 720m^{*n^6} + 3528m^{*n^5} + 4872m^{*n^4}$
 $+ 2940m^{*n^3} + 875m^{*n^2} + 126m^n + 7m + 720n^{n^6} + 1764n^{n^5} + 1624n^{*4}$
 $+ 735n^{n^3} + 175n^{n^2} + 21n + 1) + 1096B^*a^*b^*c^{*3}m^{*n^2}x^*x^{*2}n^*(e^*$
 $x)^{**}/(m^{*7} + 21m^{*6}n + 7m^{*6} + 175m^{*5}n^{*2} + 126m^{*5}n + 21m^{*5} +$
 $735m^{*4}n^{*3} + 875m^{*4}n^{*2} + 315m^{*4}n + 35m^{*4} + 1624m^{*3}n^{*4} + 294$
 $0m^{*3}n^{*3} + 1750m^{*3}n^{*2} + 420m^{*3}n + 35m^{*3} + 1764m^{*2}n^{*5} + 4872$
 $m^{*2}n^{*4} + 4410m^{*2}n^{*3} + 1750m^{*2}n^{*2} + 315m^{*2}n + 21m^{*2} + 720m^{*n^6}$
 $+ 3528m^{*n^5} + 4872m^{*n^4} + 2940m^{*n^3} + 875m^{*n^2} + 126m^n + 7m$
 $+ 720n^{n^6} + 1764n^{n^5} + 1624n^{n^4} + 735n^{n^3} + 175n^{n^2} + 21n + 1) + 19$
 $0B^*a^*b^*c^{*3}m^{*n}x^*x^{*2}n^*(e^*x)^{**}/(m^{*7} + 21m^{*6}n + 7m^{*6} + 175m^{*5}n^{*2}$
 $+ 126m^{*5}n + 21m^{*5} + 735m^{*4}n^{*3} + 875m^{*4}n^{*2} + 315m^{*4}n +$
 $35m^{*4} + 1624m^{*3}n^{*4} + 2940m^{*3}n^{*3} + 1750m^{*3}n^{*2} + 420m^{*3}n + 3$
 $5m^{*3} + 1764m^{*2}n^{*5} + 4872m^{*2}n^{*4} + 4410m^{*2}n^{*3} + 1750m^{*2}n^{*2}$

$$\begin{aligned}
& + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126* \\
& m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + \\
& 1) + 6*B*a*b*c**2*d*m**6*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + \\
& 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315* \\
& m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m \\
& **3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m \\
& **2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + \\
& 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 \\
& + 735*n**3 + 175*n**2 + 21*n + 1) + 108*B*a*b*c**2*d*m**5*n*x*x**(3*n)*(e* \\
& x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 7 \\
& 35*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940 \\
& *m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872* \\
& m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m* \\
& n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m \\
& + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 36* \\
& B*a*b*c**2*d*m**5*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5 \\
& *n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + \\
& 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + \\
& 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 \\
& + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n \\
& **3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n \\
& **3 + 175*n**2 + 21*n + 1) + 726*B*a*b*c**2*d*m**4*n**2*x*x**(3*n)*(e*x)**m \\
& /(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m* \\
& **4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3 \\
& *n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2* \\
& n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 \\
& + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 72 \\
& 0*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 540*B*a* \\
& b*c**2*d*m**4*n*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n \\
& **2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 3 \\
& 5*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35 \\
& *m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + \\
& 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n** \\
& 3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n** \\
& 3 + 175*n**2 + 21*n + 1) + 90*B*a*b*c**2*d*m**4*x*x**(3*n)*(e*x)**m/(m**7 + \\
& 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 \\
& + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + \\
& 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4 \\
& 410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m \\
& *n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + \\
& 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 2232*B*a*b*c**2* \\
& d*m**3*n**3*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 \\
& + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m* \\
& **4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m** \\
& 3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315
\end{aligned}$$

$$\begin{aligned}
& *m^{**2}n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + \\
& 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + \\
& 175*n^{**2} + 21*n + 1) + 2904*B*a*b*c^{**2}*d*m^{**3}n^{**2}*x*x^{**}(3*n)*(e*x)**m/(m^{**} \\
& 7 + 21*m^{**6}n + 7*m^{**6} + 175*m^{**5}n^{**2} + 126*m^{**5}n + 21*m^{**5} + 735*m^{**4}n* \\
& *3 + 875*m^{**4}n^{**2} + 315*m^{**4}n + 35*m^{**4} + 1624*m^{**3}n^{**4} + 2940*m^{**3}n^{**3} \\
& + 1750*m^{**3}n^{**2} + 420*m^{**3}n + 35*m^{**3} + 1764*m^{**2}n^{**5} + 4872*m^{**2}n^{**4} \\
& + 4410*m^{**2}n^{**3} + 1750*m^{**2}n^{**2} + 315*m^{**2}n + 21*m^{**2} + 720*m*n^{**6} + 352 \\
& 8*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**} \\
& 6 + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 1080*B*a*b*c* \\
& **2*d*m^{**3}n*x*x^{**}(3*n)*(e*x)**m/(m^{**}7 + 21*m^{**6}n + 7*m^{**6} + 175*m^{**5}n^{**2} \\
& + 126*m^{**5}n + 21*m^{**5} + 735*m^{**4}n^{**3} + 875*m^{**4}n^{**2} + 315*m^{**4}n + 35*m* \\
& **4 + 1624*m^{**3}n^{**4} + 2940*m^{**3}n^{**3} + 1750*m^{**3}n^{**2} + 420*m^{**3}n + 35*m^{**} \\
& 3 + 1764*m^{**2}n^{**5} + 4872*m^{**2}n^{**4} + 4410*m^{**2}n^{**3} + 1750*m^{**2}n^{**2} + 315 \\
& *m^{**2}n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + \\
& 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + \\
& 175*n^{**2} + 21*n + 1) + 120*B*a*b*c^{**2}*d*m^{**3}x*x^{**}(3*n)*(e*x)**m/(m^{**}7 + 21 \\
& *m^{**6}n + 7*m^{**6} + 175*m^{**5}n^{**2} + 126*m^{**5}n + 21*m^{**5} + 735*m^{**4}n^{**3} + 8 \\
& 75*m^{**4}n^{**2} + 315*m^{**4}n + 35*m^{**4} + 1624*m^{**3}n^{**4} + 2940*m^{**3}n^{**3} + 175 \\
& 0*m^{**3}n^{**2} + 420*m^{**3}n + 35*m^{**3} + 1764*m^{**2}n^{**5} + 4872*m^{**2}n^{**4} + 4410 \\
& *m^{**2}n^{**3} + 1750*m^{**2}n^{**2} + 315*m^{**2}n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n* \\
& **5 + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 17 \\
& 64*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 3048*B*a*b*c^{**2}*d*m \\
& **2*n^{**4}*x*x^{**}(3*n)*(e*x)**m/(m^{**}7 + 21*m^{**6}n + 7*m^{**6} + 175*m^{**5}n^{**2} + 1 \\
& 26*m^{**5}n + 21*m^{**5} + 735*m^{**4}n^{**3} + 875*m^{**4}n^{**2} + 315*m^{**4}n + 35*m^{**4} \\
& + 1624*m^{**3}n^{**4} + 2940*m^{**3}n^{**3} + 1750*m^{**3}n^{**2} + 420*m^{**3}n + 35*m^{**3} + \\
& 1764*m^{**2}n^{**5} + 4872*m^{**2}n^{**4} + 4410*m^{**2}n^{**3} + 1750*m^{**2}n^{**2} + 315*m* \\
& **2*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875 \\
& *m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175 \\
& *n^{**2} + 21*n + 1) + 6696*B*a*b*c^{**2}*d*m^{**2}n^{**3}*x*x^{**}(3*n)*(e*x)**m/(m^{**}7 + \\
& 21*m^{**6}n + 7*m^{**6} + 175*m^{**5}n^{**2} + 126*m^{**5}n + 21*m^{**5} + 735*m^{**4}n^{**3} \\
& + 875*m^{**4}n^{**2} + 315*m^{**4}n + 35*m^{**4} + 1624*m^{**3}n^{**4} + 2940*m^{**3}n^{**3} + \\
& 1750*m^{**3}n^{**2} + 420*m^{**3}n + 35*m^{**3} + 1764*m^{**2}n^{**5} + 4872*m^{**2}n^{**4} + 4 \\
& 410*m^{**2}n^{**3} + 1750*m^{**2}n^{**2} + 315*m^{**2}n + 21*m^{**2} + 720*m*n^{**6} + 3528*m \\
& *n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + \\
& 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 4356*B*a*b*c^{**2}* \\
& d*m^{**2}n^{**2}*x*x^{**}(3*n)*(e*x)**m/(m^{**}7 + 21*m^{**6}n + 7*m^{**6} + 175*m^{**5}n^{**2} \\
& + 126*m^{**5}n + 21*m^{**5} + 735*m^{**4}n^{**3} + 875*m^{**4}n^{**2} + 315*m^{**4}n + 35*m* \\
& **4 + 1624*m^{**3}n^{**4} + 2940*m^{**3}n^{**3} + 1750*m^{**3}n^{**2} + 420*m^{**3}n + 35*m^{**} \\
& 3 + 1764*m^{**2}n^{**5} + 4872*m^{**2}n^{**4} + 4410*m^{**2}n^{**3} + 1750*m^{**2}n^{**2} + 315 \\
& *m^{**2}n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + \\
& 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + \\
& 175*n^{**2} + 21*n + 1) + 1080*B*a*b*c^{**2}*d*m^{**2}n*x*x^{**}(3*n)*(e*x)**m/(m^{**}7 + \\
& 21*m^{**6}n + 7*m^{**6} + 175*m^{**5}n^{**2} + 126*m^{**5}n + 21*m^{**5} + 735*m^{**4}n^{**3} \\
& + 875*m^{**4}n^{**2} + 315*m^{**4}n + 35*m^{**4} + 1624*m^{**3}n^{**4} + 2940*m^{**3}n^{**3} + \\
& 1750*m^{**3}n^{**2} + 420*m^{**3}n + 35*m^{**3} + 1764*m^{**2}n^{**5} + 4872*m^{**2}n^{**4} + 4
\end{aligned}$$

$$\begin{aligned}
& **2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n \\
& **6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m \\
& + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 1440 \\
& *B*a*b*c**2*d*n**5*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m** \\
& 5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n \\
& + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + \\
& 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n** \\
& 2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m* \\
& n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735* \\
& n**3 + 175*n**2 + 21*n + 1) + 3048*B*a*b*c**2*d*n**4*x*x**(3*n)*(e*x)**m/(m \\
& **7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4* \\
& n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n* \\
& *3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n** \\
& 4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3 \\
& 528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n \\
& **6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 2232*B*a*b* \\
& c**2*d*n**3*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 \\
& + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m* \\
& *4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m** \\
& 3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315 \\
& *m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + \\
& 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + \\
& 175*n**2 + 21*n + 1) + 726*B*a*b*c**2*d*n**2*x*x**(3*n)*(e*x)**m/(m**7 + 21 \\
& *m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 8 \\
& 75*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 175 \\
& 0*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410 \\
& *m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n* \\
& *5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 17 \\
& 64*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 108*B*a*b*c**2*d*n* \\
& x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n \\
& + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m* \\
& *3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m** \\
& 2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21 \\
& *m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + \\
& 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 2 \\
& 1*n + 1) + 6*B*a*b*c**2*d*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + \\
& 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315* \\
& m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m \\
& **3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m \\
& **2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + \\
& 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 \\
& + 735*n**3 + 175*n**2 + 21*n + 1) + 6*B*a*b*c*d**2*m**6*x*x**(4*n)*(e*x)** \\
& m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m \\
& **4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m** \\
& 3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2
\end{aligned}$$

$$\begin{aligned}
& n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} \\
& + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 7 \\
& 20*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 102*B*a \\
& *b*c*d^{**2}*m^{**5}*n*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5} \\
& n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + \\
& 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 3 \\
& 5*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} \\
& + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{** \\
& *3 + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{** \\
& *3 + 175*n^{**2} + 21*n + 1) + 36*B*a*b*c*d^{**2}*m^{**5}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**7} \\
& + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} \\
& + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + \\
& 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + \\
& 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528* \\
& m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} \\
& + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 642*B*a*b*c*d^{** \\
& 2}*m^{**4}*n^{**2}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} \\
& + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{** \\
& *4 + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{** \\
& 3 + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315 \\
& *m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + \\
& 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + \\
& 175*n^{**2} + 21*n + 1) + 510*B*a*b*c*d^{**2}*m^{**4}*n*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + \\
& 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + \\
& 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1 \\
& 750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 44 \\
& 10*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m \\
& n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + \\
& 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 90*B*a*b*c*d^{**2}*m \\
& **4*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m \\
& *5*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 162 \\
& 4*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764 \\
& *m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n \\
& + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{** \\
& *2 + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} \\
& + 21*n + 1) + 1842*B*a*b*c*d^{**2}*m^{**3}*n^{**3}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + 21*m \\
& **6*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875 \\
& *m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750* \\
& m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m \\
& **2*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} \\
& + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764 \\
& *n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 2568*B*a*b*c*d^{**2}*m^{** \\
& 3}*n^{**2}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126 \\
& *m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + \\
& 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1
\end{aligned}$$

$$\begin{aligned}
&764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2} \\
&*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m \\
&*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n \\
&*n^{**2} + 21*n + 1) + 1020*B*a*b*c*d^{**2}*m^{**3}*n*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + 21*m \\
&*n^{**6} + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875 \\
&*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750* \\
&m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m \\
&*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} \\
&+ 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764 \\
&*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 120*B*a*b*c*d^{**2}*m^{**3} \\
&*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}* \\
&n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m \\
&*n^{**3} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m \\
&*n^{**2} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 2 \\
&1*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} \\
&+ 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + \\
&21*n + 1) + 2376*B*a*b*c*d^{**2}*m^{**2}*n^{**4}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6} \\
&)*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m \\
&*n^{**4} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{** \\
&3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2} \\
&*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + \\
&4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n \\
&*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 5526*B*a*b*c*d^{**2}*m^{**2}*n \\
&*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m \\
&*n^{**5} + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 162 \\
&4*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764 \\
&*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n \\
&+ 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n \\
&*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} \\
&+ 21*n + 1) + 3852*B*a*b*c*d^{**2}*m^{**2}*n^{**2}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + 21*m \\
&)*n^{**6} + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875 \\
&*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750* \\
&m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m \\
&)*n^{**2} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} \\
&+ 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764 \\
&)*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 1020*B*a*b*c*d^{**2}*m^{** \\
&2}*n*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m \\
&)*n^{**5} + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 162 \\
&4*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764 \\
&)*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n \\
&+ 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n \\
&)*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} \\
&+ 21*n + 1) + 90*B*a*b*c*d^{**2}*m^{**2}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + \\
&7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n \\
&)*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n
\end{aligned}$$

$$\begin{aligned}
& *2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n** \\
& 3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872 \\
& *m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + \\
& 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 1080*B*a*b*c*d**2*m*n**5*x*x \\
& *(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + \\
& 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3* \\
& n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n \\
& **5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m \\
& *2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 12 \\
& 6*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n \\
& + 1) + 4752*B*a*b*c*d**2*m*n**4*x*x*(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7* \\
& m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 \\
& + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 \\
& + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + \\
& 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m \\
& n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 16 \\
& 24*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 5526*B*a*b*c*d**2*m*n**3*x*x*(\\
& 4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21* \\
& m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n** \\
& 4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 \\
& + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 \\
& + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m \\
& *n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + \\
& 1) + 2568*B*a*b*c*d**2*m*n**2*x*x*(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m** \\
& 6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + \\
& 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 4 \\
& 20*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 17 \\
& 50*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n** \\
& 4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624* \\
& n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 510*B*a*b*c*d**2*m*n*x*x*(4*n)*(e \\
& *x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + \\
& 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 294 \\
& 0*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872 \\
& *m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m \\
& *n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7* \\
& m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 36 \\
& *B*a*b*c*d**2*m*x*x*(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n \\
& **2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 3 \\
& 5*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35 \\
& *m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + \\
& 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n** \\
& 3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n** \\
& 3 + 175*n**2 + 21*n + 1) + 1080*B*a*b*c*d**2*n**5*x*x*(4*n)*(e*x)**m/(m**7 \\
& + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n** \\
& 3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3
\end{aligned}$$

$$\begin{aligned}
& + 1750*m^{*3}*n^{*2} + 420*m^{*3}*n + 35*m^{*3} + 1764*m^{*2}*n^{*5} + 4872*m^{*2}*n^{*4} + \\
& 4410*m^{*2}*n^{*3} + 1750*m^{*2}*n^{*2} + 315*m^{*2}*n + 21*m^{*2} + 720*m*n^{*6} + 3528 \\
& *m*n^{*5} + 4872*m*n^{*4} + 2940*m*n^{*3} + 875*m*n^{*2} + 126*m*n + 7*m + 720*n^{*6} \\
& + 1764*n^{*5} + 1624*n^{*4} + 735*n^{*3} + 175*n^{*2} + 21*n + 1) + 2376*B*a*b*c*d \\
& **2*n^{*4}*x*x**(4*n)*(e*x)**m/(m^{*7} + 21*m^{*6}*n + 7*m^{*6} + 175*m^{*5}*n^{*2} + 1 \\
& 26*m^{*5}*n + 21*m^{*5} + 735*m^{*4}*n^{*3} + 875*m^{*4}*n^{*2} + 315*m^{*4}*n + 35*m^{*4} \\
& + 1624*m^{*3}*n^{*4} + 2940*m^{*3}*n^{*3} + 1750*m^{*3}*n^{*2} + 420*m^{*3}*n + 35*m^{*3} + \\
& 1764*m^{*2}*n^{*5} + 4872*m^{*2}*n^{*4} + 4410*m^{*2}*n^{*3} + 1750*m^{*2}*n^{*2} + 315*m^{* \\
& *2*n + 21*m^{*2} + 720*m*n^{*6} + 3528*m*n^{*5} + 4872*m*n^{*4} + 2940*m*n^{*3} + 875 \\
& *m*n^{*2} + 126*m*n + 7*m + 720*n^{*6} + 1764*n^{*5} + 1624*n^{*4} + 735*n^{*3} + 175 \\
& *n^{*2} + 21*n + 1) + 1842*B*a*b*c*d**2*n^{*3}*x*x**(4*n)*(e*x)**m/(m^{*7} + 21*m \\
& **6*n + 7*m^{*6} + 175*m^{*5}*n^{*2} + 126*m^{*5}*n + 21*m^{*5} + 735*m^{*4}*n^{*3} + 875 \\
& *m^{*4}*n^{*2} + 315*m^{*4}*n + 35*m^{*4} + 1624*m^{*3}*n^{*4} + 2940*m^{*3}*n^{*3} + 1750* \\
& m^{*3}*n^{*2} + 420*m^{*3}*n + 35*m^{*3} + 1764*m^{*2}*n^{*5} + 4872*m^{*2}*n^{*4} + 4410*m \\
& **2*n^{*3} + 1750*m^{*2}*n^{*2} + 315*m^{*2}*n + 21*m^{*2} + 720*m*n^{*6} + 3528*m*n^{*5} \\
& + 4872*m*n^{*4} + 2940*m*n^{*3} + 875*m*n^{*2} + 126*m*n + 7*m + 720*n^{*6} + 1764 \\
& *n^{*5} + 1624*n^{*4} + 735*n^{*3} + 175*n^{*2} + 21*n + 1) + 642*B*a*b*c*d**2*n^{*2} \\
& *x*x**(4*n)*(e*x)**m/(m^{*7} + 21*m^{*6}*n + 7*m^{*6} + 175*m^{*5}*n^{*2} + 126*m^{*5}* \\
& n + 21*m^{*5} + 735*m^{*4}*n^{*3} + 875*m^{*4}*n^{*2} + 315*m^{*4}*n + 35*m^{*4} + 1624*m \\
& **3*n^{*4} + 2940*m^{*3}*n^{*3} + 1750*m^{*3}*n^{*2} + 420*m^{*3}*n + 35*m^{*3} + 1764*m^{* \\
& *2*n^{*5} + 4872*m^{*2}*n^{*4} + 4410*m^{*2}*n^{*3} + 1750*m^{*2}*n^{*2} + 315*m^{*2}*n + 2 \\
& 1*m^{*2} + 720*m*n^{*6} + 3528*m*n^{*5} + 4872*m*n^{*4} + 2940*m*n^{*3} + 875*m*n^{*2} \\
& + 126*m*n + 7*m + 720*n^{*6} + 1764*n^{*5} + 1624*n^{*4} + 735*n^{*3} + 175*n^{*2} + \\
& 21*n + 1) + 102*B*a*b*c*d**2*n*x*x**(4*n)*(e*x)**m/(m^{*7} + 21*m^{*6}*n + 7*m^{* \\
& *6} + 175*m^{*5}*n^{*2} + 126*m^{*5}*n + 21*m^{*5} + 735*m^{*4}*n^{*3} + 875*m^{*4}*n^{*2} + \\
& 315*m^{*4}*n + 35*m^{*4} + 1624*m^{*3}*n^{*4} + 2940*m^{*3}*n^{*3} + 1750*m^{*3}*n^{*2} + \\
& 420*m^{*3}*n + 35*m^{*3} + 1764*m^{*2}*n^{*5} + 4872*m^{*2}*n^{*4} + 4410*m^{*2}*n^{*3} + 1 \\
& 750*m^{*2}*n^{*2} + 315*m^{*2}*n + 21*m^{*2} + 720*m*n^{*6} + 3528*m*n^{*5} + 4872*m*n^{* \\
& *4} + 2940*m*n^{*3} + 875*m*n^{*2} + 126*m*n + 7*m + 720*n^{*6} + 1764*n^{*5} + 1624 \\
& *n^{*4} + 735*n^{*3} + 175*n^{*2} + 21*n + 1) + 6*B*a*b*c*d**2*x*x**(4*n)*(e*x)** \\
& m/(m^{*7} + 21*m^{*6}*n + 7*m^{*6} + 175*m^{*5}*n^{*2} + 126*m^{*5}*n + 21*m^{*5} + 735*m \\
& **4*n^{*3} + 875*m^{*4}*n^{*2} + 315*m^{*4}*n + 35*m^{*4} + 1624*m^{*3}*n^{*4} + 2940*m^{* \\
& 3*n^{*3} + 1750*m^{*3}*n^{*2} + 420*m^{*3}*n + 35*m^{*3} + 1764*m^{*2}*n^{*5} + 4872*m^{*2} \\
& *n^{*4} + 4410*m^{*2}*n^{*3} + 1750*m^{*2}*n^{*2} + 315*m^{*2}*n + 21*m^{*2} + 720*m*n^{*6} \\
& + 3528*m*n^{*5} + 4872*m*n^{*4} + 2940*m*n^{*3} + 875*m*n^{*2} + 126*m*n + 7*m + 7 \\
& 20*n^{*6} + 1764*n^{*5} + 1624*n^{*4} + 735*n^{*3} + 175*n^{*2} + 21*n + 1) + 2*B*a*b \\
& *d**3*m^{*6}*x*x**(5*n)*(e*x)**m/(m^{*7} + 21*m^{*6}*n + 7*m^{*6} + 175*m^{*5}*n^{*2} + \\
& 126*m^{*5}*n + 21*m^{*5} + 735*m^{*4}*n^{*3} + 875*m^{*4}*n^{*2} + 315*m^{*4}*n + 35*m^{* \\
& 4} + 1624*m^{*3}*n^{*4} + 2940*m^{*3}*n^{*3} + 1750*m^{*3}*n^{*2} + 420*m^{*3}*n + 35*m^{*3} \\
& + 1764*m^{*2}*n^{*5} + 4872*m^{*2}*n^{*4} + 4410*m^{*2}*n^{*3} + 1750*m^{*2}*n^{*2} + 315* \\
& m^{*2}*n + 21*m^{*2} + 720*m*n^{*6} + 3528*m*n^{*5} + 4872*m*n^{*4} + 2940*m*n^{*3} + 8 \\
& 75*m*n^{*2} + 126*m*n + 7*m + 720*n^{*6} + 1764*n^{*5} + 1624*n^{*4} + 735*n^{*3} + 1 \\
& 75*n^{*2} + 21*n + 1) + 32*B*a*b*d**3*m^{*5}*x*x**(5*n)*(e*x)**m/(m^{*7} + 21*m \\
& **6*n + 7*m^{*6} + 175*m^{*5}*n^{*2} + 126*m^{*5}*n + 21*m^{*5} + 735*m^{*4}*n^{*3} + 875 \\
& *m^{*4}*n^{*2} + 315*m^{*4}*n + 35*m^{*4} + 1624*m^{*3}*n^{*4} + 2940*m^{*3}*n^{*3} + 1750*
\end{aligned}$$

$$\begin{aligned}
& 3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 \\
& + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720mn^6 + 35 \\
& 28mn^5 + 4872mn^4 + 2940mn^3 + 875mn^2 + 126mn + 7m + 720n^* \\
& *6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 40B^*a^*b^*d^* \\
& 3m^3x^x(5n)(e^x)^m/(m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126 \\
& m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + \\
& 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1 \\
& 764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2 \\
& *n + 21m^2 + 720mn^6 + 3528mn^5 + 4872mn^4 + 2940mn^3 + 875m \\
& *n^2 + 126mn + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n \\
& **2 + 21n + 1) + 648B^*a^*b^*d^*3m^2n^4x^x(5n)(e^x)^m/(m^7 + 21m \\
& **6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875 \\
& m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m \\
& m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m \\
& **2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720mn^6 + 3528mn^5 \\
& + 4872mn^4 + 2940mn^3 + 875mn^2 + 126mn + 7m + 720n^6 + 1764 \\
& n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 1560B^*a^*b^*d^*3m^2* \\
& n^3x^x(5n)(e^x)^m/(m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m \\
& **5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 16 \\
& 24m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 176 \\
& 4m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n \\
& + 21m^2 + 720mn^6 + 3528mn^5 + 4872mn^4 + 2940mn^3 + 875mn \\
& **2 + 126mn + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^* \\
& 2 + 21n + 1) + 1140B^*a^*b^*d^*3m^2n^2x^x(5n)(e^x)^m/(m^7 + 21m^* \\
& *6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m \\
& m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m \\
& **3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^* \\
& *2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720mn^6 + 3528mn^5 \\
& + 4872mn^4 + 2940mn^3 + 875mn^2 + 126mn + 7m + 720n^6 + 1764n \\
& n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 320B^*a^*b^*d^*3m^2n^* \\
& x^x(5n)(e^x)^m/(m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n \\
& + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^* \\
& *3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^* \\
& *2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21 \\
& *m^2 + 720mn^6 + 3528mn^5 + 4872mn^4 + 2940mn^3 + 875mn^2 + \\
& 126mn + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 2 \\
& 1n + 1) + 30B^*a^*b^*d^*3m^2x^x(5n)(e^x)^m/(m^7 + 21m^6n + 7m^* \\
& 6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + \\
& 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 4 \\
& 20m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 17 \\
& 50m^2n^2 + 315m^2n + 21m^2 + 720mn^6 + 3528mn^5 + 4872mn^* \\
& 4 + 2940mn^3 + 875mn^2 + 126mn + 7m + 720n^6 + 1764n^5 + 1624n \\
& n^4 + 735n^3 + 175n^2 + 21n + 1) + 288B^*a^*b^*d^*3m^*n^5x^x(5n)(\\
& e^x)^m/(m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + \\
& 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 29
\end{aligned}$$

$$\begin{aligned}
& *3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m** \\
& 2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n** \\
& 6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + \\
& 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 520*B* \\
& a*b*d**3*n**3*x*x**(5*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n** \\
& 2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35* \\
& m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m \\
& **3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 3 \\
& 15*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 \\
& + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 \\
& + 175*n**2 + 21*n + 1) + 190*B*a*b*d**3*n**2*x*x**(5*n)*(e*x)**m/(m**7 + 21 \\
& *m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 8 \\
& 75*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 175 \\
& 0*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410 \\
& *m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n* \\
& *5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 17 \\
& 64*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 32*B*a*b*d**3*n*x*x \\
& *(5*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + \\
& 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3* \\
& n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n \\
& **5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m* \\
& *2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 12 \\
& 6*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n \\
& + 1) + 2*B*a*b*d**3*x*x**(5*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m \\
& **5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4* \\
& n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n \\
& + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n \\
& **2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940* \\
& m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 73 \\
& 5*n**3 + 175*n**2 + 21*n + 1) + B*b**2*c**3*m**6*x*x**(3*n)*(e*x)**m/(m**7 \\
& + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 \\
& + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + \\
& 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + \\
& 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528* \\
& m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 \\
& + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 18*B*b**2*c**3* \\
& m**5*n*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126 \\
& *m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + \\
& 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1 \\
& 764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2 \\
& *n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m \\
& *n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n \\
& **2 + 21*n + 1) + 6*B*b**2*c**3*m**5*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n \\
& + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4* \\
& n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n
\end{aligned}$$

$$\begin{aligned}
& **2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n* \\
& *3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 487 \\
& 2*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 \\
& + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 121*B*b**2*c**3*m**4*n**2*x \\
& *x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n \\
& + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m** \\
& 3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2 \\
& *n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21* \\
& m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + \\
& 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21 \\
& *n + 1) + 90*B*b**2*c**3*m**4*n*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m \\
& **6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 \\
& + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + \\
& 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + \\
& 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n \\
& **4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 162 \\
& 4*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 15*B*b**2*c**3*m**4*x*x**(3*n)*(\\
& e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + \\
& 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 29 \\
& 40*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 487 \\
& 2*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720* \\
& m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7 \\
& *m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 3 \\
& 72*B*b**2*c**3*m**3*n**3*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 1 \\
& 75*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m \\
& **4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m* \\
& **3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m* \\
& **2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2 \\
& 940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 \\
& + 735*n**3 + 175*n**2 + 21*n + 1) + 484*B*b**2*c**3*m**3*n**2*x*x**(3*n)*(e \\
& *x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + \\
& 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 294 \\
& 0*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872 \\
& *m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m \\
& *n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7* \\
& m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 18 \\
& 0*B*b**2*c**3*m**3*n*x*x**(3*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m \\
& **5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4* \\
& n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n \\
& + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n \\
& **2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940* \\
& m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 73 \\
& 5*n**3 + 175*n**2 + 21*n + 1) + 20*B*b**2*c**3*m**3*x*x**(3*n)*(e*x)**m/(m* \\
& *7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n \\
& **3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**
\end{aligned}$$

$$\begin{aligned}
& 3 + 1750m^{3n^2} + 420m^{3n} + 35m^{33} + 1764m^{2n^5} + 4872m^{2n^4} \\
& + 4410m^{2n^3} + 1750m^{2n^2} + 315m^{2n} + 21m^2 + 720m^{n^6} + 35 \\
& 28m^{n^5} + 4872m^{n^4} + 2940m^{n^3} + 875m^{n^2} + 126m^n + 7m + 720n^* \\
& *6 + 1764n^{*5} + 1624n^{*4} + 735n^{*3} + 175n^{*2} + 21n + 1) + 508B^*b^{*2}c \\
& **3m^{*2}n^{*4}x^*x^{*}(3n)*(e^*x)^{*m}/(m^{*7} + 21m^{*6}n + 7m^{*6} + 175m^{*5}n^{*} \\
& 2 + 126m^{*5}n + 21m^{*5} + 735m^{*4}n^{*3} + 875m^{*4}n^{*2} + 315m^{*4}n + 35* \\
& m^{*4} + 1624m^{*3}n^{*4} + 2940m^{*3}n^{*3} + 1750m^{*3}n^{*2} + 420m^{*3}n + 35m \\
& **3 + 1764m^{*2}n^{*5} + 4872m^{*2}n^{*4} + 4410m^{*2}n^{*3} + 1750m^{*2}n^{*2} + 3 \\
& 15m^{*2}n + 21m^{*2} + 720m^{n^*6} + 3528m^{n^*5} + 4872m^{n^*4} + 2940m^{n^*3} \\
& + 875m^{n^*2} + 126m^n + 7m + 720n^{*6} + 1764n^{*5} + 1624n^{*4} + 735n^{*3} \\
& + 175n^{*2} + 21n + 1) + 1116B^*b^{*2}c^{*3}m^{*2}n^{*3}x^*x^{*}(3n)*(e^*x)^{*m}/(m \\
& *7 + 21m^{*6}n + 7m^{*6} + 175m^{*5}n^{*2} + 126m^{*5}n + 21m^{*5} + 735m^{*4}n \\
& **3 + 875m^{*4}n^{*2} + 315m^{*4}n + 35m^{*4} + 1624m^{*3}n^{*4} + 2940m^{*3}n^{*} \\
& 3 + 1750m^{*3}n^{*2} + 420m^{*3}n + 35m^{*3} + 1764m^{*2}n^{*5} + 4872m^{*2}n^{*4} \\
& + 4410m^{*2}n^{*3} + 1750m^{*2}n^{*2} + 315m^{*2}n + 21m^2 + 720m^{n^*6} + 35 \\
& 28m^{n^*5} + 4872m^{n^*4} + 2940m^{n^*3} + 875m^{n^*2} + 126m^n + 7m + 720n^* \\
& *6 + 1764n^{*5} + 1624n^{*4} + 735n^{*3} + 175n^{*2} + 21n + 1) + 726B^*b^{*2}c \\
& **3m^{*2}n^{*2}x^*x^{*}(3n)*(e^*x)^{*m}/(m^{*7} + 21m^{*6}n + 7m^{*6} + 175m^{*5}n^{*} \\
& 2 + 126m^{*5}n + 21m^{*5} + 735m^{*4}n^{*3} + 875m^{*4}n^{*2} + 315m^{*4}n + 35* \\
& m^{*4} + 1624m^{*3}n^{*4} + 2940m^{*3}n^{*3} + 1750m^{*3}n^{*2} + 420m^{*3}n + 35m \\
& **3 + 1764m^{*2}n^{*5} + 4872m^{*2}n^{*4} + 4410m^{*2}n^{*3} + 1750m^{*2}n^{*2} + 3 \\
& 15m^{*2}n + 21m^{*2} + 720m^{n^*6} + 3528m^{n^*5} + 4872m^{n^*4} + 2940m^{n^*3} \\
& + 875m^{n^*2} + 126m^n + 7m + 720n^{*6} + 1764n^{*5} + 1624n^{*4} + 735n^{*3} \\
& + 175n^{*2} + 21n + 1) + 180B^*b^{*2}c^{*3}m^{*2}n^{*}x^*x^{*}(3n)*(e^*x)^{*m}/(m^{*7} + \\
& 21m^{*6}n + 7m^{*6} + 175m^{*5}n^{*2} + 126m^{*5}n + 21m^{*5} + 735m^{*4}n^{*3} \\
& + 875m^{*4}n^{*2} + 315m^{*4}n + 35m^{*4} + 1624m^{*3}n^{*4} + 2940m^{*3}n^{*3} + \\
& 1750m^{*3}n^{*2} + 420m^{*3}n + 35m^{*3} + 1764m^{*2}n^{*5} + 4872m^{*2}n^{*4} + 4 \\
& 410m^{*2}n^{*3} + 1750m^{*2}n^{*2} + 315m^{*2}n + 21m^2 + 720m^{n^*6} + 3528m \\
& *n^{*5} + 4872m^{n^*4} + 2940m^{n^*3} + 875m^{n^*2} + 126m^n + 7m + 720n^{*6} + \\
& 1764n^{*5} + 1624n^{*4} + 735n^{*3} + 175n^{*2} + 21n + 1) + 15B^*b^{*2}c^{*3}m \\
& **2x^*x^{*}(3n)*(e^*x)^{*m}/(m^{*7} + 21m^{*6}n + 7m^{*6} + 175m^{*5}n^{*2} + 126m* \\
& *5n + 21m^{*5} + 735m^{*4}n^{*3} + 875m^{*4}n^{*2} + 315m^{*4}n + 35m^{*4} + 162 \\
& 4m^{*3}n^{*4} + 2940m^{*3}n^{*3} + 1750m^{*3}n^{*2} + 420m^{*3}n + 35m^{*3} + 1764 \\
& *m^{*2}n^{*5} + 4872m^{*2}n^{*4} + 4410m^{*2}n^{*3} + 1750m^{*2}n^{*2} + 315m^{*2}n \\
& + 21m^{*2} + 720m^{n^*6} + 3528m^{n^*5} + 4872m^{n^*4} + 2940m^{n^*3} + 875m^{n^*} \\
& *2 + 126m^n + 7m + 720n^{*6} + 1764n^{*5} + 1624n^{*4} + 735n^{*3} + 175n^{*2} \\
& + 21n + 1) + 240B^*b^{*2}c^{*3}m^{n^*5}x^*x^{*}(3n)*(e^*x)^{*m}/(m^{*7} + 21m^{*6}n \\
& + 7m^{*6} + 175m^{*5}n^{*2} + 126m^{*5}n + 21m^{*5} + 735m^{*4}n^{*3} + 875m^{*4} \\
& *n^{*2} + 315m^{*4}n + 35m^{*4} + 1624m^{*3}n^{*4} + 2940m^{*3}n^{*3} + 1750m^{*3}n^{*} \\
& n^{*2} + 420m^{*3}n + 35m^{*3} + 1764m^{*2}n^{*5} + 4872m^{*2}n^{*4} + 4410m^{*2}n \\
& **3 + 1750m^{*2}n^{*2} + 315m^{*2}n + 21m^2 + 720m^{n^*6} + 3528m^{n^*5} + 48 \\
& 72m^{n^*4} + 2940m^{n^*3} + 875m^{n^*2} + 126m^n + 7m + 720n^{*6} + 1764n^{*5} \\
& + 1624n^{*4} + 735n^{*3} + 175n^{*2} + 21n + 1) + 1016B^*b^{*2}c^{*3}m^{n^*4}x^* \\
& x^{*}(3n)*(e^*x)^{*m}/(m^{*7} + 21m^{*6}n + 7m^{*6} + 175m^{*5}n^{*2} + 126m^{*5}n + \\
& 21m^{*5} + 735m^{*4}n^{*3} + 875m^{*4}n^{*2} + 315m^{*4}n + 35m^{*4} + 1624m^{*3}
\end{aligned}$$

$$\begin{aligned}
& *4 + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} \\
& 5 + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} \\
& + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126* \\
& m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + \\
& 1) + 121*B*b^{**2}*c^{**3}*n^{**2}*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + \\
& 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315 \\
& *m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420* \\
& m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750* \\
& m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + \\
& 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} \\
& + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 18*B*b^{**2}*c^{**3}*n*x*x^{**}(3*n)*(e*x)^{**m}/ \\
& (m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4} \\
& *n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}* \\
& n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n \\
& **4 + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + \\
& 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720 \\
& *n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + B*b^{**2}*c* \\
& *3*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5} \\
& *n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624 \\
& *m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764* \\
& m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + \\
& 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} \\
& + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} \\
& + 21*n + 1) + 3*B*b^{**2}*c^{**2}*d*m^{**6}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + \\
& 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n \\
& *2 + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} \\
& + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} \\
& + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872* \\
& m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + \\
& 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 51*B*b^{**2}*c^{**2}*d*m^{**5}*x*x^{**} \\
& (4*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21 \\
& *m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n \\
& *4 + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420*m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} \\
& 5 + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750*m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} \\
& + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126* \\
& m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + \\
& 1) + 18*B*b^{**2}*c^{**2}*d*m^{**5}*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} \\
& + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m^{**5} + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 31 \\
& 5*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4} + 2940*m^{**3}*n^{**3} + 1750*m^{**3}*n^{**2} + 420 \\
& *m^{**3}*n + 35*m^{**3} + 1764*m^{**2}*n^{**5} + 4872*m^{**2}*n^{**4} + 4410*m^{**2}*n^{**3} + 1750 \\
& *m^{**2}*n^{**2} + 315*m^{**2}*n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} \\
& + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} \\
& + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 321*B*b^{**2}*c^{**2}*d*m^{**4}*n^{**2}*x*x^{**}(4* \\
& n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}*n + 7*m^{**6} + 175*m^{**5}*n^{**2} + 126*m^{**5}*n + 21*m \\
& *5 + 735*m^{**4}*n^{**3} + 875*m^{**4}*n^{**2} + 315*m^{**4}*n + 35*m^{**4} + 1624*m^{**3}*n^{**4}
\end{aligned}$$

$$\begin{aligned}
& + 2940m^{*3}n^{*3} + 1750m^{*3}n^{*2} + 420m^{*3}n + 35m^{*3} + 1764m^{*2}n^{*5} + \\
& 4872m^{*2}n^{*4} + 4410m^{*2}n^{*3} + 1750m^{*2}n^{*2} + 315m^{*2}n + 21m^{*2} + \\
& 720m^{*n}n^{*6} + 3528m^{*n}n^{*5} + 4872m^{*n}n^{*4} + 2940m^{*n}n^{*3} + 875m^{*n}n^{*2} + 126m^{*n} \\
& + 7m + 720n^{*6} + 1764n^{*5} + 1624n^{*4} + 735n^{*3} + 175n^{*2} + 21n + 1) \\
& + 255B^*b^{*2}c^{*2}d^*m^{*4}n^*x^*x^{*4}(4n)(e^*x)^{**m}/(m^{*7} + 21m^{*6}n + 7m^{*6} \\
& + 175m^{*5}n^{*2} + 126m^{*5}n + 21m^{*5} + 735m^{*4}n^{*3} + 875m^{*4}n^{*2} + 31 \\
& 5m^{*4}n + 35m^{*4} + 1624m^{*3}n^{*4} + 2940m^{*3}n^{*3} + 1750m^{*3}n^{*2} + 420 \\
& m^{*3}n + 35m^{*3} + 1764m^{*2}n^{*5} + 4872m^{*2}n^{*4} + 4410m^{*2}n^{*3} + 1750 \\
& m^{*2}n^{*2} + 315m^{*2}n + 21m^{*2} + 720m^{*n}n^{*6} + 3528m^{*n}n^{*5} + 4872m^{*n}n^{*4} \\
& + 2940m^{*n}n^{*3} + 875m^{*n}n^{*2} + 126m^{*n} + 7m + 720n^{*6} + 1764n^{*5} + 1624n^* \\
& *4 + 735n^{*3} + 175n^{*2} + 21n + 1) + 45B^*b^{*2}c^{*2}d^*m^{*4}x^*x^{*4}(4n)(e^* \\
& x)^{**m}/(m^{*7} + 21m^{*6}n + 7m^{*6} + 175m^{*5}n^{*2} + 126m^{*5}n + 21m^{*5} + 7 \\
& 35m^{*4}n^{*3} + 875m^{*4}n^{*2} + 315m^{*4}n + 35m^{*4} + 1624m^{*3}n^{*4} + 2940 \\
& m^{*3}n^{*3} + 1750m^{*3}n^{*2} + 420m^{*3}n + 35m^{*3} + 1764m^{*2}n^{*5} + 4872m^* \\
& m^{*2}n^{*4} + 4410m^{*2}n^{*3} + 1750m^{*2}n^{*2} + 315m^{*2}n + 21m^{*2} + 720m^* \\
& n^{*6} + 3528m^{*n}n^{*5} + 4872m^{*n}n^{*4} + 2940m^{*n}n^{*3} + 875m^{*n}n^{*2} + 126m^{*n} + 7m \\
& + 720n^{*6} + 1764n^{*5} + 1624n^{*4} + 735n^{*3} + 175n^{*2} + 21n + 1) + 921 \\
& *B^*b^{*2}c^{*2}d^*m^{*3}n^{*3}x^*x^{*4}(4n)(e^*x)^{**m}/(m^{*7} + 21m^{*6}n + 7m^{*6} + 1 \\
& 75m^{*5}n^{*2} + 126m^{*5}n + 21m^{*5} + 735m^{*4}n^{*3} + 875m^{*4}n^{*2} + 315m^* \\
& **4n + 35m^{*4} + 1624m^{*3}n^{*4} + 2940m^{*3}n^{*3} + 1750m^{*3}n^{*2} + 420m^* \\
& *3n + 35m^{*3} + 1764m^{*2}n^{*5} + 4872m^{*2}n^{*4} + 4410m^{*2}n^{*3} + 1750m^* \\
& *2n^{*2} + 315m^{*2}n + 21m^{*2} + 720m^{*n}n^{*6} + 3528m^{*n}n^{*5} + 4872m^{*n}n^{*4} + 2 \\
& 940m^{*n}n^{*3} + 875m^{*n}n^{*2} + 126m^{*n} + 7m + 720n^{*6} + 1764n^{*5} + 1624n^{*4} \\
& + 735n^{*3} + 175n^{*2} + 21n + 1) + 1284B^*b^{*2}c^{*2}d^*m^{*3}n^{*2}x^*x^{*4}(4n) \\
& *(e^*x)^{**m}/(m^{*7} + 21m^{*6}n + 7m^{*6} + 175m^{*5}n^{*2} + 126m^{*5}n + 21m^{*5} \\
& + 735m^{*4}n^{*3} + 875m^{*4}n^{*2} + 315m^{*4}n + 35m^{*4} + 1624m^{*3}n^{*4} + \\
& 2940m^{*3}n^{*3} + 1750m^{*3}n^{*2} + 420m^{*3}n + 35m^{*3} + 1764m^{*2}n^{*5} + 4 \\
& 872m^{*2}n^{*4} + 4410m^{*2}n^{*3} + 1750m^{*2}n^{*2} + 315m^{*2}n + 21m^{*2} + 72 \\
& 0m^{*n}n^{*6} + 3528m^{*n}n^{*5} + 4872m^{*n}n^{*4} + 2940m^{*n}n^{*3} + 875m^{*n}n^{*2} + 126m^{*n} + \\
& 7m + 720n^{*6} + 1764n^{*5} + 1624n^{*4} + 735n^{*3} + 175n^{*2} + 21n + 1) + \\
& 510B^*b^{*2}c^{*2}d^*m^{*3}n^*x^*x^{*4}(4n)(e^*x)^{**m}/(m^{*7} + 21m^{*6}n + 7m^{*6} + \\
& 175m^{*5}n^{*2} + 126m^{*5}n + 21m^{*5} + 735m^{*4}n^{*3} + 875m^{*4}n^{*2} + 315m^* \\
& **4n + 35m^{*4} + 1624m^{*3}n^{*4} + 2940m^{*3}n^{*3} + 1750m^{*3}n^{*2} + 420m^* \\
& **3n + 35m^{*3} + 1764m^{*2}n^{*5} + 4872m^{*2}n^{*4} + 4410m^{*2}n^{*3} + 1750m^* \\
& **2n^{*2} + 315m^{*2}n + 21m^{*2} + 720m^{*n}n^{*6} + 3528m^{*n}n^{*5} + 4872m^{*n}n^{*4} + \\
& 2940m^{*n}n^{*3} + 875m^{*n}n^{*2} + 126m^{*n} + 7m + 720n^{*6} + 1764n^{*5} + 1624n^{*4} \\
& + 735n^{*3} + 175n^{*2} + 21n + 1) + 60B^*b^{*2}c^{*2}d^*m^{*3}x^*x^{*4}(4n)(e^*x) \\
& **m}/(m^{*7} + 21m^{*6}n + 7m^{*6} + 175m^{*5}n^{*2} + 126m^{*5}n + 21m^{*5} + 735 \\
& m^{*4}n^{*3} + 875m^{*4}n^{*2} + 315m^{*4}n + 35m^{*4} + 1624m^{*3}n^{*4} + 2940m^* \\
& **3n^{*3} + 1750m^{*3}n^{*2} + 420m^{*3}n + 35m^{*3} + 1764m^{*2}n^{*5} + 4872m^* \\
& **2n^{*4} + 4410m^{*2}n^{*3} + 1750m^{*2}n^{*2} + 315m^{*2}n + 21m^{*2} + 720m^{*n}n^* \\
& *6 + 3528m^{*n}n^{*5} + 4872m^{*n}n^{*4} + 2940m^{*n}n^{*3} + 875m^{*n}n^{*2} + 126m^{*n} + 7m + \\
& 720n^{*6} + 1764n^{*5} + 1624n^{*4} + 735n^{*3} + 175n^{*2} + 21n + 1) + 1188* \\
& B^*b^{*2}c^{*2}d^*m^{*2}n^{*4}x^*x^{*4}(4n)(e^*x)^{**m}/(m^{*7} + 21m^{*6}n + 7m^{*6} + 17 \\
& 5m^{*5}n^{*2} + 126m^{*5}n + 21m^{*5} + 735m^{*4}n^{*3} + 875m^{*4}n^{*2} + 315m^*
\end{aligned}$$

$$\begin{aligned}
& *4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m** \\
& 3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m** \\
& 2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 29 \\
& 40*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + \\
& 735*n**3 + 175*n**2 + 21*n + 1) + 2763*B*b**2*c**2*d*m**2*n**3*x*x**(4*n)* \\
& (e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 \\
& + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2 \\
& 940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 48 \\
& 72*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720 \\
& *m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + \\
& 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + \\
& 1926*B*b**2*c**2*d*m**2*n**2*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 \\
& + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 3 \\
& 15*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 42 \\
& 0*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 175 \\
& 0*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 \\
& + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n \\
& **4 + 735*n**3 + 175*n**2 + 21*n + 1) + 510*B*b**2*c**2*d*m**2*n*x*x**(4*n) \\
& *(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 \\
& + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + \\
& 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4 \\
& 872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 72 \\
& 0*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + \\
& 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + \\
& 45*B*b**2*c**2*d*m**2*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175 \\
& *m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m** \\
& 4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3 \\
& *n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2 \\
& *n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 294 \\
& 0*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + \\
& 735*n**3 + 175*n**2 + 21*n + 1) + 540*B*b**2*c**2*d*m*n**5*x*x**(4*n)*(e*x) \\
& **m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735 \\
& *m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m \\
& **3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m* \\
& *2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n* \\
& *6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + \\
& 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 2376* \\
& B*b**2*c**2*d*m*n**4*x*x**(4*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m \\
& **5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4* \\
& n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n \\
& + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n \\
& **2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940* \\
& m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 73 \\
& 5*n**3 + 175*n**2 + 21*n + 1) + 2763*B*b**2*c**2*d*m*n**3*x*x**(4*n)*(e*x)* \\
& *m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*
\end{aligned}$$

$$\begin{aligned}
& m^{4n^3} + 875m^{4n^2} + 315m^{4n} + 35m^{4} + 1624m^{3n^4} + 2940m^{3n^3} + 1750m^{3n^2} + 420m^{3n} + 35m^{3} + 1764m^{2n^5} + 4872m^{2n^4} + 4410m^{2n^3} + 1750m^{2n^2} + 315m^{2n} + 21m^{2} + 720m^{n^6} + 3528m^{n^5} + 4872m^{n^4} + 2940m^{n^3} + 875m^{n^2} + 126m^n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 1284B \\
& *b^{2c^2d}m^{n^2}x^{4n}(e^x)^m/(m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^{n^6} + 3528m^{n^5} + 4872m^{n^4} + 2940m^{n^3} + 875m^{n^2} + 126m^n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 255B*b^{2c^2d}m^{n^2}x^{4n}(e^x)^m/(m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^{n^6} + 3528m^{n^5} + 4872m^{n^4} + 2940m^{n^3} + 875m^{n^2} + 126m^n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 18B*b^{2c^2d}m^{n^2}x^{4n}(e^x)^m/(m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^{n^6} + 3528m^{n^5} + 4872m^{n^4} + 2940m^{n^3} + 875m^{n^2} + 126m^n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 540B*b^{2c^2d}m^{n^5}x^{4n}(e^x)^m/(m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^{n^6} + 3528m^{n^5} + 4872m^{n^4} + 2940m^{n^3} + 875m^{n^2} + 126m^n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 1188B*b^{2c^2d}m^{n^4}x^{4n}(e^x)^m/(m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^{n^6} + 3528m^{n^5} + 4872m^{n^4} + 2940m^{n^3} + 875m^{n^2} + 126m^n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 921B*b^{2c^2d}m^{n^3}x^{4n}(e^x)^m/(m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21m^5 + 735m^4n^3 + 875m^4n^2 + 315m^4n + 35m^4 + 1624m^3n^4 + 2940m^3n^3 + 1750m^3n^2 + 420m^3n + 35m^3 + 1764m^2n^5 + 4872m^2n^4 + 4410m^2n^3 + 1750m^2n^2 + 315m^2n + 21m^2 + 720m^{n^6} + 3528m^{n^5} + 4872m^{n^4} + 2940m^{n^3} + 875m^{n^2} + 126m^n + 7m + 720n^6 + 1764n^5 + 1624n^4 + 735n^3 + 175n^2 + 21n + 1) + 321B*b^{2c^2d}m^{n^2}x^{4n}(e^x)^m/(m^7 + 21m^6n + 7m^6 + 175m^5n^2 + 126m^5n + 21
\end{aligned}$$

$$\begin{aligned}
& *n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624* \\
& m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m \\
& **2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + \\
& 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 \\
& + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + \\
& 21*n + 1) + 45*B*b**2*c*d**2*m**4*x*x**(5*n)*(e*x)**m/(m**7 + 21*m**6*n + \\
& 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n* \\
& **2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n** \\
& 2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 \\
& + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872* \\
& m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + \\
& 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 780*B*b**2*c*d**2*m**3*n**3*x \\
& *x**(5*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n \\
& + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m** \\
& 3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2 \\
& *n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21* \\
& m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + \\
& 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21 \\
& *n + 1) + 1140*B*b**2*c*d**2*m**3*n**2*x*x**(5*n)*(e*x)**m/(m**7 + 21*m**6*n \\
& n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m** \\
& 4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3 \\
& *n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2* \\
& n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4 \\
& 872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n** \\
& 5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 480*B*b**2*c*d**2*m**3*n* \\
& x*x**(5*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n \\
& + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m* \\
& **3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m** \\
& 2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21 \\
& *m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + \\
& 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 2 \\
& 1*n + 1) + 60*B*b**2*c*d**2*m**3*x*x**(5*n)*(e*x)**m/(m**7 + 21*m**6*n + 7* \\
& m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 \\
& + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 \\
& + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + \\
& 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m* \\
& n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 16 \\
& 24*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 972*B*b**2*c*d**2*m**2*n**4*x*x \\
& *(5*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + \\
& 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3* \\
& n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n \\
& **5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m* \\
& **2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 12 \\
& 6*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n \\
& + 1) + 2340*B*b**2*c*d**2*m**2*n**3*x*x**(5*n)*(e*x)**m/(m**7 + 21*m**6*n
\end{aligned}$$

$$\begin{aligned}
&*(e^x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 \\
&+ 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + \\
&2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4 \\
&872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 72 \\
&0*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + \\
&7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + \\
&225*B*b**2*d**3*m**3*n**3*x*x***(6*n)*(e^x)**m/(m**7 + 21*m**6*n + 7*m**6 + \\
&175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315 \\
&m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420* \\
&m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750* \\
&m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + \\
&2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n** \\
&4 + 735*n**3 + 175*n**2 + 21*n + 1) + 340*B*b**2*d**3*m**3*n**2*x*x***(6*n)* \\
&(e^x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 \\
&+ 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2 \\
&940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 48 \\
&72*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720 \\
&*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + \\
&7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + \\
&150*B*b**2*d**3*m**3*n*x*x***(6*n)*(e^x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175 \\
&*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m** \\
&4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3 \\
&*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2 \\
&*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 294 \\
&0*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + \\
&735*n**3 + 175*n**2 + 21*n + 1) + 20*B*b**2*d**3*m**3*x*x***(6*n)*(e^x)**m/(\\
&m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4 \\
&*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n \\
&>**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n* \\
&>*4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + \\
&3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720* \\
&n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 274*B*b**2 \\
&*d**3*m**2*n**4*x*x***(6*n)*(e^x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n \\
&>**2 + 126*m**5*n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 3 \\
&5*m**4 + 1624*m**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35 \\
&m**3 + 1764*m**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + \\
&315*m**2*n + 21*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n** \\
&3 + 875*m*n**2 + 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n** \\
&3 + 175*n**2 + 21*n + 1) + 675*B*b**2*d**3*m**2*n**3*x*x***(6*n)*(e^x)**m/(m \\
&>**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*n + 21*m**5 + 735*m**4* \\
&n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m**3*n**4 + 2940*m**3*n* \\
&>*3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m**2*n**5 + 4872*m**2*n** \\
&4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 21*m**2 + 720*m*n**6 + 3 \\
&528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2 + 126*m*n + 7*m + 720*n \\
&>**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 + 21*n + 1) + 510*B*b**2*
\end{aligned}$$

$$\begin{aligned}
& d^{**3}m^{**2}n^{**2}x^*x^{**}(6*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}n + 7*m^{**6} + 175*m^{**5}n^* \\
& *2 + 126*m^{**5}n + 21*m^{**5} + 735*m^{**4}n^{**3} + 875*m^{**4}n^{**2} + 315*m^{**4}n + 35 \\
& *m^{**4} + 1624*m^{**3}n^{**4} + 2940*m^{**3}n^{**3} + 1750*m^{**3}n^{**2} + 420*m^{**3}n + 35* \\
& m^{**3} + 1764*m^{**2}n^{**5} + 4872*m^{**2}n^{**4} + 4410*m^{**2}n^{**3} + 1750*m^{**2}n^{**2} + \\
& 315*m^{**2}n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} \\
& + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} \\
& + 175*n^{**2} + 21*n + 1) + 150*B*b^{**2}d^{**3}m^{**2}n^*x^*x^{**}(6*n)*(e*x)^{**m}/(m^{**7} \\
& + 21*m^{**6}n + 7*m^{**6} + 175*m^{**5}n^{**2} + 126*m^{**5}n + 21*m^{**5} + 735*m^{**4}n^{**3} \\
& + 875*m^{**4}n^{**2} + 315*m^{**4}n + 35*m^{**4} + 1624*m^{**3}n^{**4} + 2940*m^{**3}n^{**3} + \\
& 1750*m^{**3}n^{**2} + 420*m^{**3}n + 35*m^{**3} + 1764*m^{**2}n^{**5} + 4872*m^{**2}n^{**4} + \\
& 4410*m^{**2}n^{**3} + 1750*m^{**2}n^{**2} + 315*m^{**2}n + 21*m^{**2} + 720*m*n^{**6} + 3528* \\
& m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} \\
& + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 15*B*b^{**2}d^{**3} \\
& m^{**2}x^*x^{**}(6*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}n + 7*m^{**6} + 175*m^{**5}n^{**2} + 126*m \\
& **5n + 21*m^{**5} + 735*m^{**4}n^{**3} + 875*m^{**4}n^{**2} + 315*m^{**4}n + 35*m^{**4} + 16 \\
& 24*m^{**3}n^{**4} + 2940*m^{**3}n^{**3} + 1750*m^{**3}n^{**2} + 420*m^{**3}n + 35*m^{**3} + 176 \\
& 4*m^{**2}n^{**5} + 4872*m^{**2}n^{**4} + 4410*m^{**2}n^{**3} + 1750*m^{**2}n^{**2} + 315*m^{**2}n \\
& + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n \\
& **2 + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{** \\
& 2 + 21*n + 1) + 120*B*b^{**2}d^{**3}m*n^{**5}x^*x^{**}(6*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6} \\
& n + 7*m^{**6} + 175*m^{**5}n^{**2} + 126*m^{**5}n + 21*m^{**5} + 735*m^{**4}n^{**3} + 875*m^{** \\
& 4n^{**2} + 315*m^{**4}n + 35*m^{**4} + 1624*m^{**3}n^{**4} + 2940*m^{**3}n^{**3} + 1750*m^{**3} \\
& *n^{**2} + 420*m^{**3}n + 35*m^{**3} + 1764*m^{**2}n^{**5} + 4872*m^{**2}n^{**4} + 4410*m^{**2} \\
& n^{**3} + 1750*m^{**2}n^{**2} + 315*m^{**2}n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4 \\
& 872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{** \\
& 5 + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 548*B*b^{**2}d^{**3}m*n^{**4}x^* \\
& x^{**}(6*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}n + 7*m^{**6} + 175*m^{**5}n^{**2} + 126*m^{**5}n + \\
& 21*m^{**5} + 735*m^{**4}n^{**3} + 875*m^{**4}n^{**2} + 315*m^{**4}n + 35*m^{**4} + 1624*m^{**3} \\
& *n^{**4} + 2940*m^{**3}n^{**3} + 1750*m^{**3}n^{**2} + 420*m^{**3}n + 35*m^{**3} + 1764*m^{**2} \\
& n^{**5} + 4872*m^{**2}n^{**4} + 4410*m^{**2}n^{**3} + 1750*m^{**2}n^{**2} + 315*m^{**2}n + 21*m \\
& **2 + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 1 \\
& 26*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21* \\
& n + 1) + 675*B*b^{**2}d^{**3}m*n^{**3}x^*x^{**}(6*n)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}n + 7*m \\
& **6 + 175*m^{**5}n^{**2} + 126*m^{**5}n + 21*m^{**5} + 735*m^{**4}n^{**3} + 875*m^{**4}n^{**2} \\
& + 315*m^{**4}n + 35*m^{**4} + 1624*m^{**3}n^{**4} + 2940*m^{**3}n^{**3} + 1750*m^{**3}n^{**2} + \\
& 420*m^{**3}n + 35*m^{**3} + 1764*m^{**2}n^{**5} + 4872*m^{**2}n^{**4} + 4410*m^{**2}n^{**3} + \\
& 1750*m^{**2}n^{**2} + 315*m^{**2}n + 21*m^{**2} + 720*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n \\
& **4 + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n + 7*m + 720*n^{**6} + 1764*n^{**5} + 162 \\
& 4*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1) + 340*B*b^{**2}d^{**3}m*n^{**2}x^*x^{**}(6*n \\
&)*(e*x)^{**m}/(m^{**7} + 21*m^{**6}n + 7*m^{**6} + 175*m^{**5}n^{**2} + 126*m^{**5}n + 21*m^{** \\
& 5 + 735*m^{**4}n^{**3} + 875*m^{**4}n^{**2} + 315*m^{**4}n + 35*m^{**4} + 1624*m^{**3}n^{**4} + \\
& 2940*m^{**3}n^{**3} + 1750*m^{**3}n^{**2} + 420*m^{**3}n + 35*m^{**3} + 1764*m^{**2}n^{**5} + \\
& 4872*m^{**2}n^{**4} + 4410*m^{**2}n^{**3} + 1750*m^{**2}n^{**2} + 315*m^{**2}n + 21*m^{**2} + 7 \\
& 20*m*n^{**6} + 3528*m*n^{**5} + 4872*m*n^{**4} + 2940*m*n^{**3} + 875*m*n^{**2} + 126*m*n \\
& + 7*m + 720*n^{**6} + 1764*n^{**5} + 1624*n^{**4} + 735*n^{**3} + 175*n^{**2} + 21*n + 1)
\end{aligned}$$


```

*x*x**(6*n)*(e*x)**m/(m**7 + 21*m**6*n + 7*m**6 + 175*m**5*n**2 + 126*m**5*
n + 21*m**5 + 735*m**4*n**3 + 875*m**4*n**2 + 315*m**4*n + 35*m**4 + 1624*m
**3*n**4 + 2940*m**3*n**3 + 1750*m**3*n**2 + 420*m**3*n + 35*m**3 + 1764*m*
**2*n**5 + 4872*m**2*n**4 + 4410*m**2*n**3 + 1750*m**2*n**2 + 315*m**2*n + 2
1*m**2 + 720*m*n**6 + 3528*m*n**5 + 4872*m*n**4 + 2940*m*n**3 + 875*m*n**2
+ 126*m*n + 7*m + 720*n**6 + 1764*n**5 + 1624*n**4 + 735*n**3 + 175*n**2 +
21*n + 1), True))

```

Maxima [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 748 vs. $2(310) = 620$.

Time = 0.29 (sec) , antiderivative size = 748, normalized size of antiderivative = 2.41

$$\begin{aligned}
& \int (ex)^m (a + bx^n)^2 (A + Bx^n) (c + dx^n)^3 dx \\
&= \frac{Bb^2d^3e^mxe^{(m \log(x)+6n \log(x))}}{m+6n+1} + \frac{3Bb^2cd^2e^mxe^{(m \log(x)+5n \log(x))}}{m+5n+1} \\
&+ \frac{2Babd^3e^mxe^{(m \log(x)+5n \log(x))}}{m+5n+1} + \frac{Ab^2d^3e^mxe^{(m \log(x)+5n \log(x))}}{m+5n+1} \\
&+ \frac{3Bb^2c^2de^mxe^{(m \log(x)+4n \log(x))}}{m+4n+1} + \frac{6Babcd^2e^mxe^{(m \log(x)+4n \log(x))}}{m+4n+1} \\
&+ \frac{3Ab^2cd^2e^mxe^{(m \log(x)+4n \log(x))}}{m+4n+1} + \frac{Ba^2d^3e^mxe^{(m \log(x)+4n \log(x))}}{m+4n+1} \\
&+ \frac{2Aabd^3e^mxe^{(m \log(x)+4n \log(x))}}{m+4n+1} + \frac{Bb^2c^3e^mxe^{(m \log(x)+3n \log(x))}}{m+3n+1} \\
&+ \frac{6Babc^2de^mxe^{(m \log(x)+3n \log(x))}}{m+3n+1} + \frac{3Ab^2c^2de^mxe^{(m \log(x)+3n \log(x))}}{m+3n+1} \\
&+ \frac{3Ba^2cd^2e^mxe^{(m \log(x)+3n \log(x))}}{m+3n+1} + \frac{6Aabcd^2e^mxe^{(m \log(x)+3n \log(x))}}{m+3n+1} \\
&+ \frac{Aa^2d^3e^mxe^{(m \log(x)+3n \log(x))}}{m+3n+1} + \frac{2Babc^3e^mxe^{(m \log(x)+2n \log(x))}}{m+2n+1} \\
&+ \frac{Ab^2c^3e^mxe^{(m \log(x)+2n \log(x))}}{m+2n+1} + \frac{3Ba^2c^2de^mxe^{(m \log(x)+2n \log(x))}}{m+2n+1} \\
&+ \frac{6Aabc^2de^mxe^{(m \log(x)+2n \log(x))}}{m+2n+1} + \frac{3Aa^2cd^2e^mxe^{(m \log(x)+2n \log(x))}}{m+2n+1} \\
&+ \frac{Ba^2c^3e^mxe^{(m \log(x)+n \log(x))}}{m+n+1} + \frac{2Aabc^3e^mxe^{(m \log(x)+n \log(x))}}{m+n+1} \\
&+ \frac{3Aa^2c^2de^mxe^{(m \log(x)+n \log(x))}}{m+n+1} + \frac{(ex)^{m+1}Aa^2c^3}{e(m+1)}
\end{aligned}$$

[In] integrate((e*x)^m*(a+b*x^n)^2*(A+B*x^n)*(c+d*x^n)^3,x, algorithm="maxima")

```
[Out] B*b^2*d^3*e^m*x*e^(m*log(x) + 6*n*log(x))/(m + 6*n + 1) + 3*B*b^2*c*d^2*e^m
*x*e^(m*log(x) + 5*n*log(x))/(m + 5*n + 1) + 2*B*a*b*d^3*e^m*x*e^(m*log(x)
+ 5*n*log(x))/(m + 5*n + 1) + A*b^2*d^3*e^m*x*e^(m*log(x) + 5*n*log(x))/(m
+ 5*n + 1) + 3*B*b^2*c^2*d*e^m*x*e^(m*log(x) + 4*n*log(x))/(m + 4*n + 1) +
6*B*a*b*c*d^2*e^m*x*e^(m*log(x) + 4*n*log(x))/(m + 4*n + 1) + 3*A*b^2*c*d^2
*e^m*x*e^(m*log(x) + 4*n*log(x))/(m + 4*n + 1) + B*a^2*d^3*e^m*x*e^(m*log(x)
) + 4*n*log(x))/(m + 4*n + 1) + 2*A*a*b*d^3*e^m*x*e^(m*log(x) + 4*n*log(x))
/(m + 4*n + 1) + B*b^2*c^3*e^m*x*e^(m*log(x) + 3*n*log(x))/(m + 3*n + 1) +
6*B*a*b*c^2*d*e^m*x*e^(m*log(x) + 3*n*log(x))/(m + 3*n + 1) + 3*A*b^2*c^2*d
*e^m*x*e^(m*log(x) + 3*n*log(x))/(m + 3*n + 1) + 3*B*a^2*c*d^2*e^m*x*e^(m*l
og(x) + 3*n*log(x))/(m + 3*n + 1) + 6*A*a*b*c*d^2*e^m*x*e^(m*log(x) + 3*n*l
og(x))/(m + 3*n + 1) + A*a^2*d^3*e^m*x*e^(m*log(x) + 3*n*log(x))/(m + 3*n +
1) + 2*B*a*b*c^3*e^m*x*e^(m*log(x) + 2*n*log(x))/(m + 2*n + 1) + A*b^2*c^3
*e^m*x*e^(m*log(x) + 2*n*log(x))/(m + 2*n + 1) + 3*B*a^2*c^2*d*e^m*x*e^(m*l
og(x) + 2*n*log(x))/(m + 2*n + 1) + 6*A*a*b*c^2*d*e^m*x*e^(m*log(x) + 2*n*l
og(x))/(m + 2*n + 1) + 3*A*a^2*c*d^2*e^m*x*e^(m*log(x) + 2*n*log(x))/(m + 2
*n + 1) + B*a^2*c^3*e^m*x*e^(m*log(x) + n*log(x))/(m + n + 1) + 2*A*a*b*c^3
*e^m*x*e^(m*log(x) + n*log(x))/(m + n + 1) + 3*A*a^2*c^2*d*e^m*x*e^(m*log(x)
) + n*log(x))/(m + n + 1) + (e*x)^(m + 1)*A*a^2*c^3/(e*(m + 1))
```

Giac [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 70422 vs. 2(310) = 620.

Time = 0.85 (sec) , antiderivative size = 70422, normalized size of antiderivative = 227.17

$$\int (ex)^m (a + bx^n)^2 (A + Bx^n) (c + dx^n)^3 dx = \text{Too large to display}$$

```
[In] integrate((e*x)^m*(a+b*x^n)^2*(A+B*x^n)*(c+d*x^n)^3,x, algorithm="giac")
```

```
[Out] (B*b^2*d^3*m^6*x*x^(6*n)*e^(m*log(e) + m*log(x)) + 15*B*b^2*d^3*m^5*n*x*x^(
6*n)*e^(m*log(e) + m*log(x)) + 85*B*b^2*d^3*m^4*n^2*x*x^(6*n)*e^(m*log(e) +
m*log(x)) + 225*B*b^2*d^3*m^3*n^3*x*x^(6*n)*e^(m*log(e) + m*log(x)) + 274*
B*b^2*d^3*m^2*n^4*x*x^(6*n)*e^(m*log(e) + m*log(x)) + 120*B*b^2*d^3*m*n^5*x
*x^(6*n)*e^(m*log(e) + m*log(x)) + 3*B*b^2*c*d^2*m^6*x*x^(5*n)*e^(m*log(e)
+ m*log(x)) + 2*B*a*b*d^3*m^6*x*x^(5*n)*e^(m*log(e) + m*log(x)) + A*b^2*d^3
*m^6*x*x^(5*n)*e^(m*log(e) + m*log(x)) + B*b^2*d^3*m^6*x*x^(5*n)*e^(m*log(e)
) + m*log(x)) + 48*B*b^2*c*d^2*m^5*n*x*x^(5*n)*e^(m*log(e) + m*log(x)) + 32
*B*a*b*d^3*m^5*n*x*x^(5*n)*e^(m*log(e) + m*log(x)) + 16*A*b^2*d^3*m^5*n*x*x
^(5*n)*e^(m*log(e) + m*log(x)) + 15*B*b^2*d^3*m^5*n*x*x^(5*n)*e^(m*log(e) +
m*log(x)) + 285*B*b^2*c*d^2*m^4*n^2*x*x^(5*n)*e^(m*log(e) + m*log(x)) + 19
0*B*a*b*d^3*m^4*n^2*x*x^(5*n)*e^(m*log(e) + m*log(x)) + 95*A*b^2*d^3*m^4*n^
2*x*x^(5*n)*e^(m*log(e) + m*log(x)) + 85*B*b^2*d^3*m^4*n^2*x*x^(5*n)*e^(m'l
og(e) + m*log(x)) + 780*B*b^2*c*d^2*m^3*n^3*x*x^(5*n)*e^(m*log(e) + m*log(x)
)) + 520*B*a*b*d^3*m^3*n^3*x*x^(5*n)*e^(m*log(e) + m*log(x)) + 260*A*b^2*d^
```

$$\begin{aligned}
& 3m^3n^3xx^{(5n)}e^{(m\log(e) + m\log(x))} + 225B^2b^2d^3m^3n^3xx^{(5n)}e^{(m\log(e) + m\log(x))} + 972B^2b^2c^2d^2m^2n^4xx^{(5n)}e^{(m\log(e) + m\log(x))} + 648B^2a^2b^2d^3m^2n^4xx^{(5n)}e^{(m\log(e) + m\log(x))} + 324A^2b^2d^3m^2n^4xx^{(5n)}e^{(m\log(e) + m\log(x))} + 274B^2b^2d^3m^2n^4xx^{(5n)}e^{(m\log(e) + m\log(x))} + 432B^2b^2c^2d^2m^2n^5xx^{(5n)}e^{(m\log(e) + m\log(x))} + 288B^2a^2b^2d^3m^2n^5xx^{(5n)}e^{(m\log(e) + m\log(x))} + 144A^2b^2d^3m^2n^5xx^{(5n)}e^{(m\log(e) + m\log(x))} + 120B^2b^2d^3m^2n^5xx^{(5n)}e^{(m\log(e) + m\log(x))} + 3B^2b^2c^2d^2m^6xx^{(4n)}e^{(m\log(e) + m\log(x))} + 6B^2a^2b^2c^2d^2m^6xx^{(4n)}e^{(m\log(e) + m\log(x))} + 3A^2b^2c^2d^2m^6xx^{(4n)}e^{(m\log(e) + m\log(x))} + 3B^2b^2c^2d^2m^6xx^{(4n)}e^{(m\log(e) + m\log(x))} + B^2a^2d^3m^6xx^{(4n)}e^{(m\log(e) + m\log(x))} + 2A^2a^2b^2d^3m^6xx^{(4n)}e^{(m\log(e) + m\log(x))} + 2B^2a^2b^2d^3m^6xx^{(4n)}e^{(m\log(e) + m\log(x))} + A^2b^2d^3m^6xx^{(4n)}e^{(m\log(e) + m\log(x))} + B^2b^2d^3m^6xx^{(4n)}e^{(m\log(e) + m\log(x))} + 51B^2b^2c^2d^2m^5n^2xx^{(4n)}e^{(m\log(e) + m\log(x))} + 102B^2a^2b^2c^2d^2m^5n^2xx^{(4n)}e^{(m\log(e) + m\log(x))} + 51A^2b^2c^2d^2m^5n^2xx^{(4n)}e^{(m\log(e) + m\log(x))} + 48B^2b^2c^2d^2m^5n^2xx^{(4n)}e^{(m\log(e) + m\log(x))} + 17B^2a^2d^3m^5n^2xx^{(4n)}e^{(m\log(e) + m\log(x))} + 34A^2a^2b^2d^3m^5n^2xx^{(4n)}e^{(m\log(e) + m\log(x))} + 32B^2a^2b^2d^3m^5n^2xx^{(4n)}e^{(m\log(e) + m\log(x))} + 16A^2b^2d^3m^5n^2xx^{(4n)}e^{(m\log(e) + m\log(x))} + 15B^2b^2d^3m^5n^2xx^{(4n)}e^{(m\log(e) + m\log(x))} + 321B^2b^2c^2d^2m^4n^2xx^{(4n)}e^{(m\log(e) + m\log(x))} + 642B^2a^2b^2c^2d^2m^4n^2xx^{(4n)}e^{(m\log(e) + m\log(x))} + 321A^2b^2c^2d^2m^4n^2xx^{(4n)}e^{(m\log(e) + m\log(x))} + 285B^2b^2c^2d^2m^4n^2xx^{(4n)}e^{(m\log(e) + m\log(x))} + 107B^2a^2d^3m^4n^2xx^{(4n)}e^{(m\log(e) + m\log(x))} + 214A^2a^2b^2d^3m^4n^2xx^{(4n)}e^{(m\log(e) + m\log(x))} + 190B^2a^2b^2d^3m^4n^2xx^{(4n)}e^{(m\log(e) + m\log(x))} + 95A^2b^2d^3m^4n^2xx^{(4n)}e^{(m\log(e) + m\log(x))} + 85B^2b^2d^3m^4n^2xx^{(4n)}e^{(m\log(e) + m\log(x))} + 921B^2b^2c^2d^2m^3n^3xx^{(4n)}e^{(m\log(e) + m\log(x))} + 1842B^2a^2b^2c^2d^2m^3n^3xx^{(4n)}e^{(m\log(e) + m\log(x))} + 921A^2b^2c^2d^2m^3n^3xx^{(4n)}e^{(m\log(e) + m\log(x))} + 780B^2b^2c^2d^2m^3n^3xx^{(4n)}e^{(m\log(e) + m\log(x))} + 307B^2a^2d^3m^3n^3xx^{(4n)}e^{(m\log(e) + m\log(x))} + 614A^2a^2b^2d^3m^3n^3xx^{(4n)}e^{(m\log(e) + m\log(x))} + 520B^2a^2b^2d^3m^3n^3xx^{(4n)}e^{(m\log(e) + m\log(x))} + 260A^2b^2d^3m^3n^3xx^{(4n)}e^{(m\log(e) + m\log(x))} + 225B^2b^2d^3m^3n^3xx^{(4n)}e^{(m\log(e) + m\log(x))} + 1188B^2b^2c^2d^2m^2n^4xx^{(4n)}e^{(m\log(e) + m\log(x))} + 2376B^2a^2b^2c^2d^2m^2n^4xx^{(4n)}e^{(m\log(e) + m\log(x))} + 1188A^2b^2c^2d^2m^2n^4xx^{(4n)}e^{(m\log(e) + m\log(x))} + 972B^2b^2c^2d^2m^2n^4xx^{(4n)}e^{(m\log(e) + m\log(x))} + 396B^2a^2d^3m^2n^4xx^{(4n)}e^{(m\log(e) + m\log(x))} + 792A^2a^2b^2d^3m^2n^4xx^{(4n)}e^{(m\log(e) + m\log(x))} + 648B^2a^2b^2d^3m^2n^4xx^{(4n)}e^{(m\log(e) + m\log(x))} + 324A^2b^2d^3m^2n^4xx^{(4n)}e^{(m\log(e) + m\log(x))} + 274B^2b^2d^3m^2n^4xx^{(4n)}e^{(m\log(e) + m\log(x))} + 540B^2b^2c^2d^2m^2n^5xx^{(4n)}e^{(m\log(e) + m\log(x))} + 1080B^2a^2b^2c^2d^2m^2n^5xx^{(4n)}e^{(m\log(e) + m\log(x))} + 540A^2b^2c^2d^2m^2n^5xx^{(4n)}e^{(m\log(e) + m\log(x))} + 432B^2b^2c^2d^2m^2n^5xx^{(4n)}e^{(m\log(e) + m\log(x))} + 180B^2a^2d^3
\end{aligned}$$

$$\begin{aligned}
& 3*m^n^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 360*A*a*b*d^3*m^n^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 288*B*a*b*d^3*m^n^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 144*A*b^2*d^3*m^n^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 120*B*b^2*d^3*m^n^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + B*b^2*c^3*m^6*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 6*B*a*b*c^2*d*m^6*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3*A*b^2*c^2*d*m^6*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*b^2*c^2*d*m^6*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*a^2*c*d^2*m^6*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 6*A*a*b*c*d^2*m^6*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 6*B*a*b*c*d^2*m^6*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3*A*b^2*c*d^2*m^6*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*b^2*c*d^2*m^6*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + A*a^2*d^3*m^6*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + B*a^2*d^3*m^6*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 2*A*a*b*d^3*m^6*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 2*B*a*b*d^3*m^6*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + A*b^2*d^3*m^6*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + B*b^2*d^3*m^6*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 18*B*b^2*c^3*m^5*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 108*B*a*b*c^2*d*m^5*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 54*A*b^2*c^2*d*m^5*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 51*B*b^2*c^2*d*m^5*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 54*B*a^2*c*d^2*m^5*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 108*A*a*b*c*d^2*m^5*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 102*B*a*b*c*d^2*m^5*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 51*A*b^2*c*d^2*m^5*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 48*B*b^2*c*d^2*m^5*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 18*A*a^2*d^3*m^5*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 17*B*a^2*d^3*m^5*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 34*A*a*b*d^3*m^5*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 32*B*a*b*d^3*m^5*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 16*A*b^2*d^3*m^5*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 15*B*b^2*d^3*m^5*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 121*B*b^2*c^3*m^4*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 726*B*a*b*c^2*d*m^4*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 363*A*b^2*c^2*d*m^4*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 321*B*b^2*c^2*d*m^4*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 363*B*a^2*c*d^2*m^4*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 726*A*a*b*c*d^2*m^4*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 642*B*a*b*c*d^2*m^4*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 321*A*b^2*c*d^2*m^4*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 285*B*b^2*c*d^2*m^4*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 121*A*a^2*d^3*m^4*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 107*B*a^2*d^3*m^4*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 214*A*a*b*d^3*m^4*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 190*B*a*b*d^3*m^4*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 95*A*b^2*d^3*m^4*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 85*B*b^2*d^3*m^4*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 372*B*b^2*c^3*m^3*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 2232*B*a*b*c^2*d*m^3*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1116*A*b^2*c^2*d*m^3*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 921*B*b^2*c^2*d*m^3*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1116*B*a^2*c*d^2*m^3*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 2232*A*a*b*c*d^2*m^3*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1842*B*a*b*c*d^2*m^3*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 921*A*b^2*c*d^2*m^3*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 780*B*b^2*c*d^2*m^3*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 372*A*a^2*d^3*m^3*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))}
\end{aligned}$$

$g(x)) + 307*B*a^2*d^3*m^3*n^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 614*A*a*b$
 $*d^3*m^3*n^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 520*B*a*b*d^3*m^3*n^3*x*x^($
 $(3*n)*e^(m*log(e) + m*log(x)) + 260*A*b^2*d^3*m^3*n^3*x*x^(3*n)*e^(m*log(e)$
 $+ m*log(x)) + 225*B*b^2*d^3*m^3*n^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 50$
 $8*B*b^2*c^3*m^2*n^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 3048*B*a*b*c^2*d*m^$
 $2*n^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 1524*A*b^2*c^2*d*m^2*n^4*x*x^(3*n$
 $)*e^(m*log(e) + m*log(x)) + 1188*B*b^2*c^2*d*m^2*n^4*x*x^(3*n)*e^(m*log(e)$
 $+ m*log(x)) + 1524*B*a^2*c*d^2*m^2*n^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) +$
 $3048*A*a*b*c*d^2*m^2*n^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 2376*B*a*b*c*d$
 $^2*m^2*n^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 1188*A*b^2*c*d^2*m^2*n^4*x*x$
 $^(3*n)*e^(m*log(e) + m*log(x)) + 972*B*b^2*c*d^2*m^2*n^4*x*x^(3*n)*e^(m*log$
 $(e) + m*log(x)) + 508*A*a^2*d^3*m^2*n^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) +$
 $396*B*a^2*d^3*m^2*n^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 792*A*a*b*d^3*m^$
 $2*n^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 648*B*a*b*d^3*m^2*n^4*x*x^(3*n)*e$
 $^(m*log(e) + m*log(x)) + 324*A*b^2*d^3*m^2*n^4*x*x^(3*n)*e^(m*log(e) + m*lo$
 $g(x)) + 274*B*b^2*d^3*m^2*n^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 240*B*b^2$
 $*c^3*m^n^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 1440*B*a*b*c^2*d*m^n^5*x*x^($
 $3*n)*e^(m*log(e) + m*log(x)) + 720*A*b^2*c^2*d*m^n^5*x*x^(3*n)*e^(m*log(e)$
 $+ m*log(x)) + 540*B*b^2*c^2*d*m^n^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 720$
 $*B*a^2*c*d^2*m^n^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 1440*A*a*b*c*d^2*m^n$
 $^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 1080*B*a*b*c*d^2*m^n^5*x*x^(3*n)*e^($
 $m*log(e) + m*log(x)) + 540*A*b^2*c*d^2*m^n^5*x*x^(3*n)*e^(m*log(e) + m*log($
 $x)) + 432*B*b^2*c*d^2*m^n^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 240*A*a^2*d$
 $^3*m^n^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 180*B*a^2*d^3*m^n^5*x*x^(3*n)*$
 $e^(m*log(e) + m*log(x)) + 360*A*a*b*d^3*m^n^5*x*x^(3*n)*e^(m*log(e) + m*log$
 $(x)) + 288*B*a*b*d^3*m^n^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 144*A*b^2*d^$
 $3*m^n^5*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 120*B*b^2*d^3*m^n^5*x*x^(3*n)*e$
 $^(m*log(e) + m*log(x)) + 2*B*a*b*c^3*m^6*x*x^(2*n)*e^(m*log(e) + m*log(x))$
 $+ A*b^2*c^3*m^6*x*x^(2*n)*e^(m*log(e) + m*log(x)) + B*b^2*c^3*m^6*x*x^(2*n)$
 $*e^(m*log(e) + m*log(x)) + 3*B*a^2*c^2*d*m^6*x*x^(2*n)*e^(m*log(e) + m*log($
 $x)) + 6*A*a*b*c^2*d*m^6*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 6*B*a*b*c^2*d*m$
 $^6*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 3*A*b^2*c^2*d*m^6*x*x^(2*n)*e^(m*log$
 $(e) + m*log(x)) + 3*B*b^2*c^2*d*m^6*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 3*A$
 $*a^2*c*d^2*m^6*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 3*B*a^2*c*d^2*m^6*x*x^(2$
 $*n)*e^(m*log(e) + m*log(x)) + 6*A*a*b*c*d^2*m^6*x*x^(2*n)*e^(m*log(e) + m*l$
 $og(x)) + 6*B*a*b*c*d^2*m^6*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 3*A*b^2*c*d^$
 $2*m^6*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 3*B*b^2*c*d^2*m^6*x*x^(2*n)*e^(m*$
 $log(e) + m*log(x)) + A*a^2*d^3*m^6*x*x^(2*n)*e^(m*log(e) + m*log(x)) + B*a^$
 $2*d^3*m^6*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 2*A*a*b*d^3*m^6*x*x^(2*n)*e^($
 $m*log(e) + m*log(x)) + 2*B*a*b*d^3*m^6*x*x^(2*n)*e^(m*log(e) + m*log(x)) +$
 $A*b^2*d^3*m^6*x*x^(2*n)*e^(m*log(e) + m*log(x)) + B*b^2*d^3*m^6*x*x^(2*n)*e$
 $^(m*log(e) + m*log(x)) + 38*B*a*b*c^3*m^5*n*x*x^(2*n)*e^(m*log(e) + m*log(x$
 $)) + 19*A*b^2*c^3*m^5*n*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 18*B*b^2*c^3*m^$
 $5*n*x*x^(2*n)*e^(m*log(e) + m*log(x)) + 57*B*a^2*c^2*d*m^5*n*x*x^(2*n)*e^(m$
 $*log(e) + m*log(x)) + 114*A*a*b*c^2*d*m^5*n*x*x^(2*n)*e^(m*log(e) + m*log(x$

$$\begin{aligned}
&)) + 108*B*a*b*c^2*d*m^5*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 54*A*b^2*c^2 \\
&*d*m^5*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 51*B*b^2*c^2*d*m^5*n*x*x^{(2*n)} \\
&*e^{(m*\log(e) + m*\log(x))} + 57*A*a^2*c*d^2*m^5*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} \\
&+ 54*B*a^2*c*d^2*m^5*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 108*A*a*b \\
&*c*d^2*m^5*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 102*B*a*b*c*d^2*m^5*n*x*x^{(2*n)} \\
&*e^{(m*\log(e) + m*\log(x))} + 51*A*b^2*c*d^2*m^5*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} \\
&+ 48*B*b^2*c*d^2*m^5*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 18*A \\
&*a^2*d^3*m^5*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 17*B*a^2*d^3*m^5*n*x*x^{(2*n)} \\
&*e^{(m*\log(e) + m*\log(x))} + 34*A*a*b*d^3*m^5*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} \\
&+ 32*B*a*b*d^3*m^5*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 16*A*b^2*d^3 \\
&*m^5*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 15*B*b^2*d^3*m^5*n*x*x^{(2*n)}* \\
&*e^{(m*\log(e) + m*\log(x))} + 274*B*a*b*c^3*m^4*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} \\
&+ 137*A*b^2*c^3*m^4*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 121*B*b^2 \\
&*c^3*m^4*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 411*B*a^2*c^2*d*m^4*n^2*x \\
&*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 822*A*a*b*c^2*d*m^4*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} \\
&+ 726*B*a*b*c^2*d*m^4*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 363*A*b^2*c^2 \\
&*d*m^4*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 321*B*b^2*c^2*d*m^4*n^2*x \\
&*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 411*A*a^2*c*d^2*m^4*n^2*x \\
&*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 363*B*a^2*c*d^2*m^4*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} \\
&+ 726*A*a*b*c*d^2*m^4*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 642*B*a*b*c*d^2 \\
&*m^4*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 321*A*b^2*c \\
&*d^2*m^4*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 285*B*b^2*c*d^2*m^4*n^2*x \\
&*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 121*A*a^2*d^3*m^4*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} \\
&+ 107*B*a^2*d^3*m^4*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 214*A*a*b*d^3 \\
&*m^4*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 190*B*a*b*d^3*m^4 \\
&*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 95*A*b^2*d^3*m^4*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} \\
&+ 85*B*b^2*d^3*m^4*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 922*B*a*b*c^3 \\
&*m^3*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 461*A*b^2*c^3 \\
&*m^3*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 372*B*b^2*c^3*m^3*n^3*x*x^{(2*n)} \\
&*e^{(m*\log(e) + m*\log(x))} + 1383*B*a^2*c^2*d*m^3*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} \\
&+ 2766*A*a*b*c^2*d*m^3*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 2232*B*a*b*c^2 \\
&*d*m^3*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1116*A*b^2*c^2 \\
&*d*m^3*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 921*B*b^2*c^2*d*m^3*n^3*x \\
&*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1383*A*a^2*c*d^2*m^3*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} \\
&+ 1116*B*a^2*c*d^2*m^3*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 2232*A*a*b*c \\
&*d^2*m^3*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1842*B*a*b*c*d^2*m^3*n^3 \\
&*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 921*A*b^2*c*d^2*m^3*n^3 \\
&*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 780*B*b^2*c*d^2*m^3*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} \\
&+ 372*A*a^2*d^3*m^3*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 307*B*a^2*d^3 \\
&*m^3*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 614*A*a*b*d^3 \\
&*m^3*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 520*B*a*b*d^3*m^3*n^3*x*x^{(2*n)} \\
&*e^{(m*\log(e) + m*\log(x))} + 260*A*b^2*d^3*m^3*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} \\
&+ 225*B*b^2*d^3*m^3*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1404 \\
&*B*a*b*c^3*m^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 702*A*b^2*c^3*m^2*n^4 \\
&*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 508*B*b^2*c^3*m^2*n^4*x*x^{(2*n)}*e^{(m*}
\end{aligned}$$

$$\begin{aligned}
& * \log(e) + m \log(x)) + 307 * B * a^2 * d^3 * m^3 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + \\
& 614 * A * a * b * d^3 * m^3 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 520 * B * a * b * d^3 * m^3 * n^3 * \\
& x * x^n * e^{(m \log(e) + m \log(x))} + 260 * A * b^2 * d^3 * m^3 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + \\
& 225 * B * b^2 * d^3 * m^3 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 1044 * B * a^2 * c^3 * m^2 * n^4 * \\
& x * x^n * e^{(m \log(e) + m \log(x))} + 2088 * A * a * b * c^3 * m^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + \\
& 1404 * B * a * b * c^3 * m^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + 702 * A * b^2 * c^3 * m^2 * n^4 * \\
& x * x^n * e^{(m \log(e) + m \log(x))} + 508 * B * b^2 * c^3 * m^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + \\
& 3132 * A * a^2 * c^2 * d * m^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + 2106 * B * a^2 * c^2 * d * m^2 * n^4 * \\
& x * x^n * e^{(m \log(e) + m \log(x))} + 4212 * A * a * b * c^2 * d * m^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + \\
& 3048 * B * a * b * c^2 * d * m^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + 1524 * A * b^2 * c^2 * d * m^2 * n^4 * \\
& x * x^n * e^{(m \log(e) + m \log(x))} + 1188 * B * b^2 * c^2 * d * m^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + \\
& 2106 * A * a^2 * c * d^2 * m^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + 1524 * B * a^2 * c * d^2 * m^2 * n^4 * \\
& x * x^n * e^{(m \log(e) + m \log(x))} + 3048 * A * a * b * c * d^2 * m^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + \\
& 2376 * B * a * b * c * d^2 * m^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + 1188 * A * b^2 * c * d^2 * m^2 * n^4 * \\
& x * x^n * e^{(m \log(e) + m \log(x))} + 972 * B * b^2 * c * d^2 * m^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + \\
& 508 * A * a^2 * d^3 * m^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + 396 * B * a^2 * d^3 * m^2 * n^4 * x * x^n * \\
& e^{(m \log(e) + m \log(x))} + 792 * A * a * b * d^3 * m^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + 648 * B * a * b * d^3 * m^2 * \\
& n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + 324 * A * b^2 * d^3 * m^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + \\
& 274 * B * b^2 * d^3 * m^2 * n^4 * x * x^n * e^{(m \log(e) + m \log(x))} + 720 * B * a^2 * c^3 * m * n^5 * x * x^n * \\
& e^{(m \log(e) + m \log(x))} + 1440 * A * a * b * c^3 * m * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + 720 * B * a * b * c^3 * m * n^5 * \\
& x * x^n * e^{(m \log(e) + m \log(x))} + 360 * A * b^2 * c^3 * m * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + 240 * B * b^2 * c^3 * m * n^5 * \\
& x * x^n * e^{(m \log(e) + m \log(x))} + 2160 * A * a^2 * c^2 * d * m * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + \\
& 1080 * B * a^2 * c^2 * d * m * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + 2160 * A * a * b * c^2 * d * m * n^5 * x * x^n * \\
& e^{(m \log(e) + m \log(x))} + 1440 * B * a * b * c^2 * d * m * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + 720 * A * b^2 * c^2 * d * m * n^5 * \\
& x * x^n * e^{(m \log(e) + m \log(x))} + 540 * B * b^2 * c^2 * d * m * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + 1080 * A * a^2 * c * d^2 * \\
& m * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + 720 * B * a^2 * c * d^2 * m * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + \\
& 1440 * A * a * b * c * d^2 * m * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + 1080 * B * a * b * c * d^2 * m * n^5 * x * x^n * \\
& e^{(m \log(e) + m \log(x))} + 540 * A * b^2 * c * d^2 * m * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + 432 * B * b^2 * c * d^2 * m * n^5 * \\
& x * x^n * e^{(m \log(e) + m \log(x))} + 240 * A * a^2 * d^3 * m * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + 180 * B * a^2 * d^3 * \\
& m * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + 360 * A * a * b * d^3 * m * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + \\
& 288 * B * a * b * d^3 * m * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + 144 * A * b^2 * d^3 * m * n^5 * x * x^n * \\
& e^{(m \log(e) + m \log(x))} + 120 * B * b^2 * d^3 * m * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + A * a^2 * c^3 * m^6 * x * e^{(m \log(e) + m \log(x))} + \\
& B * a^2 * c^3 * m^6 * x * e^{(m \log(e) + m \log(x))} + 2 * A * a * b * c^3 * m^6 * x * e^{(m \log(e) + m \log(x))} + 2 * B * a * b * c^3 * m^6 * x * \\
& e^{(m \log(e) + m \log(x))} + A * b^2 * c^3 * m^6 * x * e^{(m \log(e) + m \log(x))} + B * b^2 * c^3 * m^6 * x * e^{(m \log(e) + m \log(x))} + \\
& 3 * A * a^2 * c^2 * d * m^6 * x * e^{(m \log(e) + m \log(x))} + 3 * B * a^2 * c^2 * d * m^6 * x * e^{(m \log(e) + m \log(x))} + 6 * \\
& A * a * b * c^2 * d * m^6 * x * e^{(m \log(e) + m \log(x))} + 6 * B * a * b * c^2 * d * m^6 * x * e^{(m \log(e) + m \log(x))} + \\
& 3 * A * b^2 * c^2 * d * m^6 * x * e^{(m \log(e) + m \log(x))} + 3 * B * b^2 * c^2 * d * m^6 * x * e^{(m \log(e) + m \log(x))} + 3 * A * a^2 * c * d^2 * m^6 * x * \\
& e^{(m \log(e) + m \log(x))} + 3 * A * a^2 * c * d^2 * m^6 * x * e^{(m \log(e) + m \log(x))}
\end{aligned}$$

$$\begin{aligned}
& + 3B^2a^2c^2d^2m^6xe^{(m\log(e) + m\log(x))} + 6A^2ab^2c^2d^2m^6xe^{(m\log(e) + m\log(x))} + 3A^2b^2c^2d^2m^6xe^{(m\log(e) + m\log(x))} + 3B^2b^2c^2d^2m^6xe^{(m\log(e) + m\log(x))} \\
& + A^2a^2d^3m^6xe^{(m\log(e) + m\log(x))} + B^2a^2d^3m^6xe^{(m\log(e) + m\log(x))} + 2A^2ab^2d^3m^6xe^{(m\log(e) + m\log(x))} + 2B^2a^2bd^3m^6xe^{(m\log(e) + m\log(x))} \\
& + A^2b^2d^3m^6xe^{(m\log(e) + m\log(x))} + B^2b^2d^3m^6xe^{(m\log(e) + m\log(x))} + 21A^2a^2c^3m^5n^2xe^{(m\log(e) + m\log(x))} + 20B^2a^2c^3m^5n^2xe^{(m\log(e) + m\log(x))} \\
& + 40A^2ab^2c^3m^5n^2xe^{(m\log(e) + m\log(x))} + 38B^2a^2b^2c^3m^5n^2xe^{(m\log(e) + m\log(x))} + 19A^2b^2c^3m^5n^2xe^{(m\log(e) + m\log(x))} + 18B^2b^2c^3m^5n^2xe^{(m\log(e) + m\log(x))} \\
& + 60A^2a^2c^2d^2m^5n^2xe^{(m\log(e) + m\log(x))} + 57B^2a^2c^2d^2m^5n^2xe^{(m\log(e) + m\log(x))} + 114A^2ab^2c^2d^2m^5n^2xe^{(m\log(e) + m\log(x))} + 108B^2a^2b^2c^2d^2m^5n^2xe^{(m\log(e) + m\log(x))} \\
& + 54A^2b^2c^2d^2m^5n^2xe^{(m\log(e) + m\log(x))} + 51B^2b^2c^2d^2m^5n^2xe^{(m\log(e) + m\log(x))} + 57A^2a^2c^2d^2m^5n^2xe^{(m\log(e) + m\log(x))} + 54B^2a^2c^2d^2m^5n^2xe^{(m\log(e) + m\log(x))} \\
& + 108A^2ab^2c^2d^2m^5n^2xe^{(m\log(e) + m\log(x))} + 102B^2a^2b^2c^2d^2m^5n^2xe^{(m\log(e) + m\log(x))} + 51A^2b^2c^2d^2m^5n^2xe^{(m\log(e) + m\log(x))} + 48B^2b^2c^2d^2m^5n^2xe^{(m\log(e) + m\log(x))} \\
& + 18A^2a^2d^3m^5n^2xe^{(m\log(e) + m\log(x))} + 17B^2a^2d^3m^5n^2xe^{(m\log(e) + m\log(x))} + 34A^2ab^2d^3m^5n^2xe^{(m\log(e) + m\log(x))} + 32B^2a^2bd^3m^5n^2xe^{(m\log(e) + m\log(x))} \\
& + 16A^2b^2d^3m^5n^2xe^{(m\log(e) + m\log(x))} + 15B^2b^2d^3m^5n^2xe^{(m\log(e) + m\log(x))} + 175A^2a^2c^3m^4n^2xe^{(m\log(e) + m\log(x))} + 155B^2a^2c^3m^4n^2xe^{(m\log(e) + m\log(x))} \\
& + 310A^2ab^2c^3m^4n^2xe^{(m\log(e) + m\log(x))} + 274B^2a^2b^2c^3m^4n^2xe^{(m\log(e) + m\log(x))} + 137A^2b^2c^3m^4n^2xe^{(m\log(e) + m\log(x))} + 121B^2b^2c^3m^4n^2xe^{(m\log(e) + m\log(x))} \\
& + 465A^2a^2c^2d^2m^4n^2xe^{(m\log(e) + m\log(x))} + 411B^2a^2c^2d^2m^4n^2xe^{(m\log(e) + m\log(x))} + 822A^2ab^2c^2d^2m^4n^2xe^{(m\log(e) + m\log(x))} + 726B^2a^2b^2c^2d^2m^4n^2xe^{(m\log(e) + m\log(x))} \\
& + 363A^2b^2c^2d^2m^4n^2xe^{(m\log(e) + m\log(x))} + 321B^2b^2c^2d^2m^4n^2xe^{(m\log(e) + m\log(x))} + 411A^2a^2c^2d^2m^4n^2xe^{(m\log(e) + m\log(x))} + 363B^2a^2c^2d^2m^4n^2xe^{(m\log(e) + m\log(x))} \\
& + 726A^2ab^2c^2d^2m^4n^2xe^{(m\log(e) + m\log(x))} + 642B^2a^2b^2c^2d^2m^4n^2xe^{(m\log(e) + m\log(x))} + 321A^2b^2c^2d^2m^4n^2xe^{(m\log(e) + m\log(x))} + 285B^2b^2c^2d^2m^4n^2xe^{(m\log(e) + m\log(x))} \\
& + 121A^2a^2d^3m^4n^2xe^{(m\log(e) + m\log(x))} + 107B^2a^2d^3m^4n^2xe^{(m\log(e) + m\log(x))} + 214A^2ab^2d^3m^4n^2xe^{(m\log(e) + m\log(x))} + 190B^2a^2bd^3m^4n^2xe^{(m\log(e) + m\log(x))} \\
& + 95A^2b^2d^3m^4n^2xe^{(m\log(e) + m\log(x))} + 85B^2b^2d^3m^4n^2xe^{(m\log(e) + m\log(x))} + 735A^2a^2c^3m^3n^3xe^{(m\log(e) + m\log(x))} + 580B^2a^2c^3m^3n^3xe^{(m\log(e) + m\log(x))} \\
& + 1160A^2ab^2c^3m^3n^3xe^{(m\log(e) + m\log(x))} + 922B^2a^2b^2c^3m^3n^3xe^{(m\log(e) + m\log(x))} + 461A^2b^2c^3m^3n^3xe^{(m\log(e) + m\log(x))} + 372B^2b^2c^3m^3n^3xe^{(m\log(e) + m\log(x))} \\
& + 1740A^2a^2c^2d^2m^3n^3xe^{(m\log(e) + m\log(x))} + 1383B^2a^2c^2d^2m^3n^3xe^{(m\log(e) + m\log(x))} + 2766A^2ab^2c^2d^2m^3n^3xe^{(m\log(e) + m\log(x))} + 2232B^2a^2b^2c^2d^2m^3n^3xe^{(m\log(e) + m\log(x))}
\end{aligned}$$

$$\begin{aligned}
&)) + 1116*A*b^2*c^2*d*m^3*n^3*x*e^{(m*\log(e) + m*\log(x))} + 921*B*b^2*c^2*d*m \\
&^3*n^3*x*e^{(m*\log(e) + m*\log(x))} + 1383*A*a^2*c*d^2*m^3*n^3*x*e^{(m*\log(e) + m*\log(x))} + \\
&1116*B*a^2*c*d^2*m^3*n^3*x*e^{(m*\log(e) + m*\log(x))} + 2232*A*a* \\
&b*c*d^2*m^3*n^3*x*e^{(m*\log(e) + m*\log(x))} + 1842*B*a*b*c*d^2*m^3*n^3*x*e^{(m*\log(e) + m*\log(x))} + \\
&921*A*b^2*c*d^2*m^3*n^3*x*e^{(m*\log(e) + m*\log(x))} + 7 \\
&80*B*b^2*c*d^2*m^3*n^3*x*e^{(m*\log(e) + m*\log(x))} + 372*A*a^2*d^3*m^3*n^3*x* \\
&e^{(m*\log(e) + m*\log(x))} + 307*B*a^2*d^3*m^3*n^3*x*e^{(m*\log(e) + m*\log(x))} + \\
&614*A*a*b*d^3*m^3*n^3*x*e^{(m*\log(e) + m*\log(x))} + 520*B*a*b*d^3*m^3*n^3*x* \\
&e^{(m*\log(e) + m*\log(x))} + 260*A*b^2*d^3*m^3*n^3*x*e^{(m*\log(e) + m*\log(x))} + \\
&225*B*b^2*d^3*m^3*n^3*x*e^{(m*\log(e) + m*\log(x))} + 1624*A*a^2*c^3*m^2*n^4*x \\
&*e^{(m*\log(e) + m*\log(x))} + 1044*B*a^2*c^3*m^2*n^4*x*e^{(m*\log(e) + m*\log(x))} \\
&+ 2088*A*a*b*c^3*m^2*n^4*x*e^{(m*\log(e) + m*\log(x))} + 1404*B*a*b*c^3*m^2*n^4 \\
&4*x*e^{(m*\log(e) + m*\log(x))} + 702*A*b^2*c^3*m^2*n^4*x*e^{(m*\log(e) + m*\log(x))} \\
&)) + 508*B*b^2*c^3*m^2*n^4*x*e^{(m*\log(e) + m*\log(x))} + 3132*A*a^2*c^2*d*m^2 \\
&*n^4*x*e^{(m*\log(e) + m*\log(x))} + 2106*B*a^2*c^2*d*m^2*n^4*x*e^{(m*\log(e) + m \\
&*\log(x))} + 4212*A*a*b*c^2*d*m^2*n^4*x*e^{(m*\log(e) + m*\log(x))} + 3048*B*a*b* \\
&c^2*d*m^2*n^4*x*e^{(m*\log(e) + m*\log(x))} + 1524*A*b^2*c^2*d*m^2*n^4*x*e^{(m*\log(e) + m*\log(x))} + \\
&1188*B*b^2*c^2*d*m^2*n^4*x*e^{(m*\log(e) + m*\log(x))} + 21 \\
&06*A*a^2*c*d^2*m^2*n^4*x*e^{(m*\log(e) + m*\log(x))} + 1524*B*a^2*c*d^2*m^2*n^4 \\
&*x*e^{(m*\log(e) + m*\log(x))} + 3048*A*a*b*c*d^2*m^2*n^4*x*e^{(m*\log(e) + m*\log \\
&(x))} + 2376*B*a*b*c*d^2*m^2*n^4*x*e^{(m*\log(e) + m*\log(x))} + 1188*A*b^2*c*d^ \\
&2*m^2*n^4*x*e^{(m*\log(e) + m*\log(x))} + 972*B*b^2*c*d^2*m^2*n^4*x*e^{(m*\log(e) \\
&+ m*\log(x))} + 508*A*a^2*d^3*m^2*n^4*x*e^{(m*\log(e) + m*\log(x))} + 396*B*a^2* \\
&d^3*m^2*n^4*x*e^{(m*\log(e) + m*\log(x))} + 792*A*a*b*d^3*m^2*n^4*x*e^{(m*\log(e) \\
&+ m*\log(x))} + 648*B*a*b*d^3*m^2*n^4*x*e^{(m*\log(e) + m*\log(x))} + 324*A*b^2* \\
&d^3*m^2*n^4*x*e^{(m*\log(e) + m*\log(x))} + 274*B*b^2*d^3*m^2*n^4*x*e^{(m*\log(e) \\
&+ m*\log(x))} + 1764*A*a^2*c^3*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 720*B*a^2*c \\
&^3*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 1440*A*a*b*c^3*m*n^5*x*e^{(m*\log(e) + m \\
&*\log(x))} + 720*B*a*b*c^3*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 360*A*b^2*c^3*m* \\
&n^5*x*e^{(m*\log(e) + m*\log(x))} + 240*B*b^2*c^3*m*n^5*x*e^{(m*\log(e) + m*\log(x) \\
&))} + 2160*A*a^2*c^2*d*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 1080*B*a^2*c^2*d*m* \\
&n^5*x*e^{(m*\log(e) + m*\log(x))} + 2160*A*a*b*c^2*d*m*n^5*x*e^{(m*\log(e) + m*\log \\
&(x))} + 1440*B*a*b*c^2*d*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 720*A*b^2*c^2*d* \\
&m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 540*B*b^2*c^2*d*m*n^5*x*e^{(m*\log(e) + m*\log \\
&(x))} + 1080*A*a^2*c*d^2*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 720*B*a^2*c*d^2 \\
&*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 1440*A*a*b*c*d^2*m*n^5*x*e^{(m*\log(e) + m \\
&*\log(x))} + 1080*B*a*b*c*d^2*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 540*A*b^2*c*d \\
&^2*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 432*B*b^2*c*d^2*m*n^5*x*e^{(m*\log(e) + \\
&m*\log(x))} + 240*A*a^2*d^3*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 180*B*a^2*d^3*m \\
&*n^5*x*e^{(m*\log(e) + m*\log(x))} + 360*A*a*b*d^3*m*n^5*x*e^{(m*\log(e) + m*\log(x) \\
&x))} + 288*B*a*b*d^3*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + 144*A*b^2*d^3*m*n^5*x \\
&*e^{(m*\log(e) + m*\log(x))} + 120*B*b^2*d^3*m*n^5*x*e^{(m*\log(e) + m*\log(x))} + \\
&720*A*a^2*c^3*n^6*x*e^{(m*\log(e) + m*\log(x))} + 6*B*b^2*d^3*m^5*x*x^{(6*n)}*e^{(\\
&m*\log(e) + m*\log(x))} + 75*B*b^2*d^3*m^4*n*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} \\
&+ 340*B*b^2*d^3*m^3*n^2*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 675*B*b^2*d^3*
\end{aligned}$$

$$\begin{aligned}
& m^2 n^3 x^x (6n) e^{(m \log(e) + m \log(x))} + 548 B b^2 d^3 m n^4 x^x (6n) e^{(m \log(e) + m \log(x))} \\
& + 120 B b^2 d^3 n^5 x^x (6n) e^{(m \log(e) + m \log(x))} + 18 B b^2 c d^2 m^5 x^x (5n) e^{(m \log(e) + m \log(x))} \\
& + 12 B a b d^3 m^5 x^x (5n) e^{(m \log(e) + m \log(x))} + 6 A b^2 d^3 m^5 x^x (5n) e^{(m \log(e) + m \log(x))} \\
& + 6 B b^2 d^3 m^5 x^x (5n) e^{(m \log(e) + m \log(x))} + 240 B b^2 c d^2 m^4 n x^x (5n) e^{(m \log(e) + m \log(x))} \\
& + 160 B a b d^3 m^4 n x^x (5n) e^{(m \log(e) + m \log(x))} + 80 A b^2 d^3 m^4 n x^x (5n) e^{(m \log(e) + m \log(x))} \\
& + 75 B b^2 d^3 m^4 n x^x (5n) e^{(m \log(e) + m \log(x))} + 1140 B b^2 c d^2 m^3 n^2 x^x (5n) e^{(m \log(e) + m \log(x))} \\
& + 760 B a b d^3 m^3 n^2 x^x (5n) e^{(m \log(e) + m \log(x))} + 380 A b^2 d^3 m^3 n^2 x^x (5n) e^{(m \log(e) + m \log(x))} \\
& + 340 B b^2 d^3 m^3 n^2 x^x (5n) e^{(m \log(e) + m \log(x))} + 2340 B b^2 c d^2 m^2 n^3 x^x (5n) e^{(m \log(e) + m \log(x))} \\
& + 1560 B a b d^3 m^2 n^3 x^x (5n) e^{(m \log(e) + m \log(x))} + 780 A b^2 d^3 m^2 n^3 x^x (5n) e^{(m \log(e) + m \log(x))} \\
& + 675 B b^2 d^3 m^2 n^3 x^x (5n) e^{(m \log(e) + m \log(x))} + 1944 B b^2 c d^2 m n^4 x^x (5n) e^{(m \log(e) + m \log(x))} \\
& + 1296 B a b d^3 m n^4 x^x (5n) e^{(m \log(e) + m \log(x))} + 648 A b^2 d^3 m n^4 x^x (5n) e^{(m \log(e) + m \log(x))} \\
& + 548 B b^2 d^3 m n^4 x^x (5n) e^{(m \log(e) + m \log(x))} + 432 B b^2 c d^2 n^5 x^x (5n) e^{(m \log(e) + m \log(x))} \\
& + 288 B a b d^3 n^5 x^x (5n) e^{(m \log(e) + m \log(x))} + 144 A b^2 d^3 n^5 x^x (5n) e^{(m \log(e) + m \log(x))} \\
& + 120 B b^2 d^3 n^5 x^x (5n) e^{(m \log(e) + m \log(x))} + 18 B b^2 c^2 d m^5 x^x (4n) e^{(m \log(e) + m \log(x))} \\
& + 36 B a b c d^2 m^5 x^x (4n) e^{(m \log(e) + m \log(x))} + 18 A b^2 c d^2 m^5 x^x (4n) e^{(m \log(e) + m \log(x))} \\
& + 18 B b^2 c d^2 m^5 x^x (4n) e^{(m \log(e) + m \log(x))} + 6 B a^2 d^3 m^5 x^x (4n) e^{(m \log(e) + m \log(x))} \\
& + 12 A a b d^3 m^5 x^x (4n) e^{(m \log(e) + m \log(x))} + 12 B a a b d^3 m^5 x^x (4n) e^{(m \log(e) + m \log(x))} \\
& + 6 A b^2 d^3 m^5 x^x (4n) e^{(m \log(e) + m \log(x))} + 6 B b^2 d^3 m^5 x^x (4n) e^{(m \log(e) + m \log(x))} \\
& + 255 B b^2 c^2 d m^4 n x^x (4n) e^{(m \log(e) + m \log(x))} + 510 B a a b c d^2 m^4 n x^x (4n) e^{(m \log(e) + m \log(x))} \\
& + 255 A b^2 c d^2 m^4 n x^x (4n) e^{(m \log(e) + m \log(x))} + 240 B b^2 c d^2 m^4 n x^x (4n) e^{(m \log(e) + m \log(x))} \\
& + 85 B a^2 d^3 m^4 n x^x (4n) e^{(m \log(e) + m \log(x))} + 170 A a a b d^3 m^4 n x^x (4n) e^{(m \log(e) + m \log(x))} \\
& + 160 B a a b d^3 m^4 n x^x (4n) e^{(m \log(e) + m \log(x))} + 80 A b^2 d^3 m^4 n x^x (4n) e^{(m \log(e) + m \log(x))} \\
& + 75 B b^2 d^3 m^4 n x^x (4n) e^{(m \log(e) + m \log(x))} + 1284 B b^2 c^2 d m^3 n^2 x^x (4n) e^{(m \log(e) + m \log(x))} \\
& + 2568 B a a b c d^2 m^3 n^2 x^x (4n) e^{(m \log(e) + m \log(x))} + 1284 A b^2 c d^2 m^3 n^2 x^x (4n) e^{(m \log(e) + m \log(x))} \\
& + 1140 B b^2 c d^2 m^3 n^2 x^x (4n) e^{(m \log(e) + m \log(x))} + 428 B a^2 d^3 m^3 n^2 x^x (4n) e^{(m \log(e) + m \log(x))} \\
& + 856 A a a b d^3 m^3 n^2 x^x (4n) e^{(m \log(e) + m \log(x))} + 760 B a a b d^3 m^3 n^2 x^x (4n) e^{(m \log(e) + m \log(x))} \\
& + 380 A b^2 d^3 m^3 n^2 x^x (4n) e^{(m \log(e) + m \log(x))} + 340 B b^2 d^3 m^3 n^2 x^x (4n) e^{(m \log(e) + m \log(x))} \\
& + 2763 B b^2 c^2 d m^2 n^3 x^x (4n) e^{(m \log(e) + m \log(x))} + 5526 B a a b c d^2 m^2 n^3 x^x (4n) e^{(m \log(e) + m \log(x))} \\
& + 2763 A b^2 c d^2 m^2 n^3 x^x (4n) e^{(m \log(e) + m \log(x))} + 2340 B b^2 c d^2 m^2 n^3 x^x (4n) e^{(m \log(e) + m \log(x))} \\
& + 921 B a^2 d^3 m^2 n^3 x^x (4n) e^{(m \log(e) + m \log(x))} + 1842 A a a b d^3 m^2 n^3 x^x (4n) e^{(m \log(e) + m \log(x))}
\end{aligned}$$

$(e) + m \log(x)) + 1560 * B * a * b * d^3 * m^2 * n^3 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))}$
 $+ 780 * A * b^2 * d^3 * m^2 * n^3 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 675 * B * b^2 * d^3 * m^2 * n^3 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))}$
 $+ 2376 * B * b^2 * c^2 * d * m * n^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 4752 * B * a * b * c * d^2 * m * n^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))}$
 $+ 2376 * A * b^2 * c * d^2 * m * n^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 1944 * B * b^2 * c * d^2 * m * n^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))}$
 $+ 792 * B * a^2 * d^3 * m * n^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 1584 * A * a * b * d^3 * m * n^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))}$
 $+ 1296 * B * a * b * d^3 * m * n^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 648 * A * b^2 * d^3 * m * n^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))}$
 $+ 548 * B * b^2 * d^3 * m * n^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 540 * B * b^2 * c^2 * d * n^5 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))}$
 $+ 1080 * B * a * b * c * d^2 * n^5 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 540 * A * b^2 * c * d^2 * n^5 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))}$
 $+ 432 * B * b^2 * c * d^2 * n^5 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 180 * B * a^2 * d^3 * n^5 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))}$
 $+ 360 * A * a * b * d^3 * n^5 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 288 * B * a * b * d^3 * n^5 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))}$
 $+ 144 * A * b^2 * d^3 * n^5 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 120 * B * b^2 * d^3 * n^5 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))}$
 $+ 6 * B * b^2 * c^3 * m^5 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 36 * B * a * b * c^2 * d * m^5 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))}$
 $+ 18 * A * b^2 * c^2 * d * m^5 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 18 * B * b^2 * c^2 * d * m^5 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))}$
 $+ 18 * B * a^2 * c * d^2 * m^5 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 36 * A * a * b * c * d^2 * m^5 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))}$
 $+ 18 * A * b^2 * c * d^2 * m^5 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 18 * B * b^2 * c * d^2 * m^5 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))}$
 $+ 6 * A * a^2 * d^3 * m^5 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 6 * B * a^2 * d^3 * m^5 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))}$
 $+ 12 * A * a * b * d^3 * m^5 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 12 * B * a * b * d^3 * m^5 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))}$
 $+ 6 * A * b^2 * d^3 * m^5 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 6 * B * b^2 * d^3 * m^5 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))}$
 $+ 90 * B * b^2 * c^3 * m^4 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 540 * B * a * b * c^2 * d * m^4 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))}$
 $+ 270 * A * b^2 * c^2 * d * m^4 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 270 * B * a^2 * c * d^2 * m^4 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))}$
 $+ 540 * A * a * b * c * d^2 * m^4 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 510 * B * a * b * c * d^2 * m^4 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))}$
 $+ 255 * A * b^2 * c * d^2 * m^4 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 240 * B * b^2 * c * d^2 * m^4 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))}$
 $+ 90 * A * a^2 * d^3 * m^4 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 85 * B * a^2 * d^3 * m^4 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))}$
 $+ 170 * A * a * b * d^3 * m^4 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 160 * B * a * b * d^3 * m^4 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))}$
 $+ 80 * A * b^2 * d^3 * m^4 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 75 * B * b^2 * d^3 * m^4 * n * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))}$
 $+ 484 * B * b^2 * c^3 * m^3 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 2904 * B * a * b * c^2 * d * m^3 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))}$
 $+ 1452 * A * b^2 * c^2 * d * m^3 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 1284 * B * b^2 * c^2 * d * m^3 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))}$
 $+ 1452 * B * a^2 * c * d^2 * m^3 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 2904 * A * a * b * c * d^2 * m^3 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))}$
 $+ 2568 * B * a * b * c * d^2 * m^3 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))} + 1284 * A * b^2 * c * d^2 * m^3 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))}$
 $+ 1140 * B * b^2 * c * d^2 * m^3 * n^2 * x * x^{(3 * n)} * e^{(m \log(e) + m \log(x))}$

$$\begin{aligned}
& x^{(3n)}e^{(m\log(e) + m\log(x))} + 484Aa^2d^3m^3n^2xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 428B^2a^2d^3m^3n^2xxx^{(3n)}e^{(m\log(e) + m\log(x))} + \\
& 856A^2ab^2d^3m^3n^2xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 760B^2a^2b^2d^3m^3n^2xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 380A^2b^2d^3m^3n^2xxx^{(3n)}e^{(m\log(e) + m\log(x))} + \\
& 340B^2b^2d^3m^3n^2xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 1116B^2b^2c^3m^2n^3xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 6696B^2a^2b^2c^2d^2m^2n^3xxx^{(3n)}e^{(m\log(e) + m\log(x))} + \\
& 3348A^2b^2c^2d^2m^2n^3xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 2763B^2b^2c^2d^2m^2n^3xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 3348B^2a^2c^2d^2m^2n^3xxx^{(3n)}e^{(m\log(e) + m\log(x))} + \\
& 6696A^2a^2b^2c^2d^2m^2n^3xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 5526B^2a^2b^2c^2d^2m^2n^3xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 2763A^2b^2c^2d^2m^2n^3xxx^{(3n)}e^{(m\log(e) + m\log(x))} + \\
& 2340B^2b^2c^2d^2m^2n^3xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 1116A^2a^2d^3m^2n^3xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 921B^2a^2d^3m^2n^3xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 1842 \\
& A^2a^2b^2d^3m^2n^3xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 1560B^2a^2b^2d^3m^2n^3xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 780A^2b^2d^3m^2n^3xxx^{(3n)}e^{(m\log(e) + m\log(x))} + \\
& 675B^2b^2d^3m^2n^3xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 1016B^2b^2c^3m^2n^4xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 6096B^2a^2b^2c^2d^2m^2n^4xxx^{(3n)}e^{(m\log(e) + m\log(x))} + \\
& 3048A^2b^2c^2d^2m^2n^4xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 2376B^2b^2c^2d^2m^2n^4xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 3048B^2a^2c^2d^2m^2n^4xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 60 \\
& 96A^2a^2b^2c^2d^2m^2n^4xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 4752B^2a^2b^2c^2d^2m^2n^4xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 2376A^2b^2c^2d^2m^2n^4xxx^{(3n)}e^{(m\log(e) + m\log(x))} + \\
& 1944B^2b^2c^2d^2m^2n^4xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 1016A^2a^2d^3m^2n^4xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 792B^2a^2d^3m^2n^4xxx^{(3n)}e^{(m\log(e) + m\log(x))} + \\
& 1584A^2a^2b^2d^3m^2n^4xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 1296B^2a^2b^2d^3m^2n^4xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 648A^2b^2d^3m^2n^4xxx^{(3n)}e^{(m\log(e) + m\log(x))} + \\
& 548B^2b^2d^3m^2n^4xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 240B^2b^2c^3n^5xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 1440B^2a^2b^2c^2d^2n^5xxx^{(3n)}e^{(m\log(e) + m\log(x))} + \\
& 720A^2b^2c^2d^2n^5xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 540B^2b^2c^2d^2n^5xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 720B^2a^2c^2d^2n^5xxx^{(3n)}e^{(m\log(e) + m\log(x))} + \\
& 1440A^2a^2b^2c^2d^2n^5xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 1080B^2a^2b^2c^2d^2n^5xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 540A^2b^2c^2d^2n^5xxx^{(3n)}e^{(m\log(e) + m\log(x))} + \\
& 432B^2b^2c^2d^2n^5xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 240A^2a^2d^3n^5xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 180B^2a^2d^3n^5xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 360A^2a^2b^2d^3n^5xxx^{(3n)}e^{(m\log(e) + m\log(x))} + \\
& 288B^2a^2b^2d^3n^5xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 144A^2b^2d^3n^5xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 120B^2b^2d^3n^5xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 12B^2a^2b^2c^3m^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + \\
& 6A^2b^2c^3m^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 6B^2b^2c^3m^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 18B^2a^2c^2d^2m^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 36A^2a^2b^2c^2d^2m^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + \\
& 36B^2a^2b^2c^2d^2m^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 18A^2b^2c^2d^2m^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 18B^2b^2c^2d^2m^5xxx^{(2n)}e^{(m\log(e) + m\log(x))}
\end{aligned}$$

$$\begin{aligned}
& x^{(2n)}e^{(m\log(e) + m\log(x))} + 18Aa^2c^2d^2m^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 18B^2a^2c^2d^2m^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 36Aa^2 \\
& *b^2c^2d^2m^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 36B^2a^2b^2c^2d^2m^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 18A^2b^2c^2d^2m^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 18B^2b^2c^2d^2m^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 6Aa^2d^3 \\
& *m^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 6B^2a^2d^3m^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 12Aa^2b^2d^3m^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 12B^2a^2b^2d^3m^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 6A^2b^2d^3m^5xxx^{(2n)} \\
& *e^{(m\log(e) + m\log(x))} + 6B^2b^2d^3m^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 190B^2a^2b^2c^3m^4nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 95A^2b^2c^3m^4nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 90B^2b^2c^3m^4nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 285B^2a^2c^2d^2m^4nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 570A^2a^2b^2c^2d^2m^4nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 540B^2a^2b^2c^2d^2m^4nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 270A^2b^2c^2d^2m^4nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 255B^2b^2c^2d^2m^4nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 285A^2a^2c^2d^2m^4nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 270B^2a^2c^2d^2m^4nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 540A^2a^2b^2c^2d^2m^4nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 510B^2a^2b^2c^2d^2m^4nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 255A^2b^2c^2d^2m^4nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 240B^2b^2c^2d^2m^4nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 90A^2a^2d^3m^4nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 85B^2a^2d^3m^4nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 170A^2a^2b^2d^3m^4nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 160B^2a^2b^2d^3m^4nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 80A^2b^2d^3m^4nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 75B^2b^2d^3m^4nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 1096B^2a^2b^2c^3m^3n^2xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 548A^2b^2c^3m^3n^2xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 484B^2b^2c^3m^3n^2xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 1644B^2a^2c^2d^2m^3n^2xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 3288A^2a^2b^2c^2d^2m^3n^2xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 2904B^2a^2b^2c^2d^2m^3n^2xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 1452A^2b^2c^2d^2m^3n^2xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 1284B^2b^2c^2d^2m^3n^2xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 1644A^2a^2c^2d^2m^3n^2xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 1452B^2a^2c^2d^2m^3n^2xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 2904A^2a^2b^2c^2d^2m^3n^2xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 2568B^2a^2b^2c^2d^2m^3n^2xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 1284A^2b^2c^2d^2m^3n^2xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 1140B^2b^2c^2d^2m^3n^2xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 484A^2a^2d^3m^3n^2xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 428B^2a^2d^3m^3n^2xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 856A^2a^2b^2d^3m^3n^2xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 760B^2a^2b^2d^3m^3n^2xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 380A^2b^2d^3m^3n^2xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 340B^2b^2d^3m^3n^2xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 2766B^2a^2b^2c^3m^2n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 1383A^2b^2c^3m^2n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 1116B^2b^2c^3m^2n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 4149B^2a^2c^2d^2m^2n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 8298A^2a^2b^2c^2d^2m^2n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 6696B^2a^2b^2c^2d^2m^2n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 3348A^2
\end{aligned}$$

$$\begin{aligned}
& b^2c^2d^2m^2n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 2763B^2b^2c^2d^2m^2n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 4149A^2a^2c^2d^2m^2n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 3348B^2a^2c^2d^2m^2n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 6696A^2a^2b^2c^2d^2m^2n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 5526B^2a^2b^2c^2d^2m^2n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 2763A^2b^2c^2d^2m^2n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 2340B^2b^2c^2d^2m^2n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 1116A^2a^2d^3m^2n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 921B^2a^2d^3m^2n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 1842A^2a^2b^2d^3m^2n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 1560B^2a^2b^2d^3m^2n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 780A^2b^2d^3m^2n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 675B^2b^2d^3m^2n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 2808B^2a^2b^2c^3m^2n^4xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 1404A^2b^2c^3m^2n^4xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 1016B^2b^2c^3m^2n^4xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 4212B^2a^2c^2d^2m^2n^4xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 8424A^2a^2b^2c^2d^2m^2n^4xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 6096B^2a^2b^2c^2d^2m^2n^4xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 3048A^2b^2c^2d^2m^2n^4xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 2376B^2b^2c^2d^2m^2n^4xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 4212A^2a^2c^2d^2m^2n^4xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 3048B^2a^2c^2d^2m^2n^4xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 6096A^2a^2b^2c^2d^2m^2n^4xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 4752B^2a^2b^2c^2d^2m^2n^4xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 2376A^2b^2c^2d^2m^2n^4xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 1944B^2b^2c^2d^2m^2n^4xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 1016A^2a^2d^3m^2n^4xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 792B^2a^2d^3m^2n^4xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 1584A^2a^2b^2d^3m^2n^4xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 1296B^2a^2b^2d^3m^2n^4xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 648A^2b^2d^3m^2n^4xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 548B^2b^2d^3m^2n^4xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 720B^2a^2b^2c^3n^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 360A^2b^2c^3n^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 240B^2b^2c^3n^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 1080B^2a^2c^2d^2n^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 2160A^2a^2b^2c^2d^2n^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 1440B^2a^2b^2c^2d^2n^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 720A^2b^2c^2d^2n^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 540B^2b^2c^2d^2n^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 1080A^2a^2c^2d^2n^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 720B^2a^2c^2d^2n^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 1440A^2a^2b^2c^2d^2n^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 1080B^2a^2b^2c^2d^2n^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 540A^2b^2c^2d^2n^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 432B^2b^2c^2d^2n^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 240A^2a^2d^3n^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 180B^2a^2d^3n^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 360A^2a^2b^2d^3n^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 288B^2a^2b^2d^3n^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 144A^2b^2d^3n^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 120B^2b^2d^3n^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 6B^2a^2c^3m^5xxx^ne^{(m\log(e) + m\log(x))} + 12A^2a^2b^2c^3m^5xxx^ne^{(m\log(e) + m\log(x))} + 12B^2a^2b^2c^3m^5xxx^ne^{(m\log(e) + m\log(x))} + 6A^2b^2c^3m^5xxx^ne^{(m\log(e) + m\log(x))} + 6B^2b^2c^3m^5xxx^ne^{(m\log(e) + m\log(x))} + 18A^2a^2c^2d^2m^5xxx^ne^{(m\log(
\end{aligned}$$

$$\begin{aligned}
& 3m^2n^3xxx^n e^{(m\log(e) + m\log(x))} + 3480Aab^2c^3m^2n^3xxx^n e^{(m\log(e) + m\log(x))} \\
& + 2766B^2a^2b^2c^3m^2n^3xxx^n e^{(m\log(e) + m\log(x))} + 1383A^2b^2c^3m^2n^3xxx^n e^{(m\log(e) + m\log(x))} \\
& + 1116B^2b^2c^3m^2n^3xxx^n e^{(m\log(e) + m\log(x))} + 5220A^2a^2c^2d^2m^2n^3xxx^n e^{(m\log(e) + m\log(x))} \\
& + 4149B^2a^2c^2d^2m^2n^3xxx^n e^{(m\log(e) + m\log(x))} + 8298A^2ab^2c^2d^2m^2n^3xxx^n e^{(m\log(e) + m\log(x))} \\
& + 6696B^2a^2b^2c^2d^2m^2n^3xxx^n e^{(m\log(e) + m\log(x))} + 3348A^2b^2c^2d^2m^2n^3xxx^n e^{(m\log(e) + m\log(x))} \\
& + 2763B^2b^2c^2d^2m^2n^3xxx^n e^{(m\log(e) + m\log(x))} + 4149A^2a^2c^2d^2m^2n^3xxx^n e^{(m\log(e) + m\log(x))} \\
& + 3348B^2a^2c^2d^2m^2n^3xxx^n e^{(m\log(e) + m\log(x))} + 6696A^2ab^2c^2d^2m^2n^3xxx^n e^{(m\log(e) + m\log(x))} \\
& + 5526B^2a^2b^2c^2d^2m^2n^3xxx^n e^{(m\log(e) + m\log(x))} + 2763A^2b^2c^2d^2m^2n^3xxx^n e^{(m\log(e) + m\log(x))} \\
& + 2340B^2b^2c^2d^2m^2n^3xxx^n e^{(m\log(e) + m\log(x))} + 1116A^2a^2d^3m^2n^3xxx^n e^{(m\log(e) + m\log(x))} \\
& + 921B^2a^2d^3m^2n^3xxx^n e^{(m\log(e) + m\log(x))} + 1842A^2ab^2d^3m^2n^3xxx^n e^{(m\log(e) + m\log(x))} \\
& + 1560B^2a^2b^2d^3m^2n^3xxx^n e^{(m\log(e) + m\log(x))} + 780A^2b^2d^3m^2n^3xxx^n e^{(m\log(e) + m\log(x))} \\
& + 675B^2b^2d^3m^2n^3xxx^n e^{(m\log(e) + m\log(x))} + 2088B^2a^2c^3m^2n^4xxx^n e^{(m\log(e) + m\log(x))} \\
& + 4176A^2ab^2c^3m^2n^4xxx^n e^{(m\log(e) + m\log(x))} + 2808B^2a^2b^2c^3m^2n^4xxx^n e^{(m\log(e) + m\log(x))} \\
& + 1404A^2b^2c^3m^2n^4xxx^n e^{(m\log(e) + m\log(x))} + 1016B^2b^2c^3m^2n^4xxx^n e^{(m\log(e) + m\log(x))} \\
& + 6264A^2a^2c^2d^2m^2n^4xxx^n e^{(m\log(e) + m\log(x))} + 4212B^2a^2c^2d^2m^2n^4xxx^n e^{(m\log(e) + m\log(x))} \\
& + 8424A^2ab^2c^2d^2m^2n^4xxx^n e^{(m\log(e) + m\log(x))} + 6096B^2a^2b^2c^2d^2m^2n^4xxx^n e^{(m\log(e) + m\log(x))} \\
& + 3048A^2b^2c^2d^2m^2n^4xxx^n e^{(m\log(e) + m\log(x))} + 2376B^2b^2c^2d^2m^2n^4xxx^n e^{(m\log(e) + m\log(x))} \\
& + 4212A^2a^2c^2d^2m^2n^4xxx^n e^{(m\log(e) + m\log(x))} + 3048B^2a^2c^2d^2m^2n^4xxx^n e^{(m\log(e) + m\log(x))} \\
& + 6096A^2ab^2c^2d^2m^2n^4xxx^n e^{(m\log(e) + m\log(x))} + 4752B^2a^2b^2c^2d^2m^2n^4xxx^n e^{(m\log(e) + m\log(x))} \\
& + 2376A^2b^2c^2d^2m^2n^4xxx^n e^{(m\log(e) + m\log(x))} + 1944B^2b^2c^2d^2m^2n^4xxx^n e^{(m\log(e) + m\log(x))} \\
& + 1016A^2a^2d^3m^2n^4xxx^n e^{(m\log(e) + m\log(x))} + 792B^2a^2d^3m^2n^4xxx^n e^{(m\log(e) + m\log(x))} \\
& + 1584A^2ab^2d^3m^2n^4xxx^n e^{(m\log(e) + m\log(x))} + 1296B^2a^2b^2d^3m^2n^4xxx^n e^{(m\log(e) + m\log(x))} \\
& + 648A^2b^2d^3m^2n^4xxx^n e^{(m\log(e) + m\log(x))} + 548B^2b^2d^3m^2n^4xxx^n e^{(m\log(e) + m\log(x))} \\
& + 720B^2a^2c^3n^5xxx^n e^{(m\log(e) + m\log(x))} + 1440A^2ab^2c^3n^5xxx^n e^{(m\log(e) + m\log(x))} \\
& + 720B^2a^2b^2c^3n^5xxx^n e^{(m\log(e) + m\log(x))} + 360A^2b^2c^3n^5xxx^n e^{(m\log(e) + m\log(x))} \\
& + 240B^2b^2c^3n^5xxx^n e^{(m\log(e) + m\log(x))} + 2160A^2a^2c^2d^2n^5xxx^n e^{(m\log(e) + m\log(x))} \\
& + 1080B^2a^2c^2d^2n^5xxx^n e^{(m\log(e) + m\log(x))} + 2160A^2ab^2c^2d^2n^5xxx^n e^{(m\log(e) + m\log(x))} \\
& + 1440B^2a^2b^2c^2d^2n^5xxx^n e^{(m\log(e) + m\log(x))} + 720A^2b^2c^2d^2n^5xxx^n e^{(m\log(e) + m\log(x))} \\
& + 540B^2b^2c^2d^2n^5xxx^n e^{(m\log(e) + m\log(x))} + 1080A^2a^2c^2d^2n^5xxx^n e^{(m\log(e) + m\log(x))} \\
& + 720B^2a^2c^2d^2n^5xxx^n e^{(m\log(e) + m\log(x))} + 1440A^2ab^2c^2d^2n^5xxx^n e^{(m\log(e) + m\log(x))} \\
& + 1080B^2a^2b^2c^2d^2n^5xxx^n e^{(m\log(e) + m\log(x))} + 540A^2b^2c^2d^2n^5xxx^n e^{(m\log(e) + m\log(x))} \\
& + 432B^2b^2c^2d^2n^5xxx^n e^{(m\log(e) + m\log(x))}
\end{aligned}$$

$\log(e) + m \log(x)) + 240 * A * a^2 * d^3 * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + 180 * B * a^2 * d^3 * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + 360 * A * a * b * d^3 * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + 288 * B * a * b * d^3 * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + 144 * A * b^2 * d^3 * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + 120 * B * b^2 * d^3 * n^5 * x * x^n * e^{(m \log(e) + m \log(x))} + 6 * A * a^2 * c^3 * m^5 * x * e^{(m \log(e) + m \log(x))} + 6 * B * a^2 * c^3 * m^5 * x * e^{(m \log(e) + m \log(x))} + 12 * A * a * b * c^3 * m^5 * x * e^{(m \log(e) + m \log(x))} + 12 * B * a * b * c^3 * m^5 * x * e^{(m \log(e) + m \log(x))} + 6 * A * b^2 * c^3 * m^5 * x * e^{(m \log(e) + m \log(x))} + 6 * B * b^2 * c^3 * m^5 * x * e^{(m \log(e) + m \log(x))} + 18 * A * a^2 * c^2 * d * m^5 * x * e^{(m \log(e) + m \log(x))} + 18 * B * a^2 * c^2 * d * m^5 * x * e^{(m \log(e) + m \log(x))} + 36 * A * a * b * c^2 * d * m^5 * x * e^{(m \log(e) + m \log(x))} + 36 * B * a * b * c^2 * d * m^5 * x * e^{(m \log(e) + m \log(x))} + 18 * A * b^2 * c^2 * d * m^5 * x * e^{(m \log(e) + m \log(x))} + 18 * B * b^2 * c^2 * d * m^5 * x * e^{(m \log(e) + m \log(x))} + 18 * A * a^2 * c * d^2 * m^5 * x * e^{(m \log(e) + m \log(x))} + 18 * B * a^2 * c * d^2 * m^5 * x * e^{(m \log(e) + m \log(x))} + 36 * A * a * b * c * d^2 * m^5 * x * e^{(m \log(e) + m \log(x))} + 36 * B * a * b * c * d^2 * m^5 * x * e^{(m \log(e) + m \log(x))} + 18 * A * b^2 * c * d^2 * m^5 * x * e^{(m \log(e) + m \log(x))} + 18 * B * b^2 * c * d^2 * m^5 * x * e^{(m \log(e) + m \log(x))} + 6 * A * a^2 * d^3 * m^5 * x * e^{(m \log(e) + m \log(x))} + 6 * B * a^2 * d^3 * m^5 * x * e^{(m \log(e) + m \log(x))} + 12 * A * a * b * d^3 * m^5 * x * e^{(m \log(e) + m \log(x))} + 12 * B * a * b * d^3 * m^5 * x * e^{(m \log(e) + m \log(x))} + 6 * A * b^2 * d^3 * m^5 * x * e^{(m \log(e) + m \log(x))} + 6 * B * b^2 * d^3 * m^5 * x * e^{(m \log(e) + m \log(x))} + 105 * A * a^2 * c^3 * m^4 * n * x * e^{(m \log(e) + m \log(x))} + 100 * B * a^2 * c^3 * m^4 * n * x * e^{(m \log(e) + m \log(x))} + 200 * A * a * b * c^3 * m^4 * n * x * e^{(m \log(e) + m \log(x))} + 190 * B * a * b * c^3 * m^4 * n * x * e^{(m \log(e) + m \log(x))} + 95 * A * b^2 * c^3 * m^4 * n * x * e^{(m \log(e) + m \log(x))} + 90 * B * b^2 * c^3 * m^4 * n * x * e^{(m \log(e) + m \log(x))} + 300 * A * a^2 * c^2 * d * m^4 * n * x * e^{(m \log(e) + m \log(x))} + 285 * B * a^2 * c^2 * d * m^4 * n * x * e^{(m \log(e) + m \log(x))} + 570 * A * a * b * c^2 * d * m^4 * n * x * e^{(m \log(e) + m \log(x))} + 540 * B * a * b * c^2 * d * m^4 * n * x * e^{(m \log(e) + m \log(x))} + 270 * A * b^2 * c^2 * d * m^4 * n * x * e^{(m \log(e) + m \log(x))} + 255 * B * b^2 * c^2 * d * m^4 * n * x * e^{(m \log(e) + m \log(x))} + 285 * A * a^2 * c * d^2 * m^4 * n * x * e^{(m \log(e) + m \log(x))} + 270 * B * a^2 * c * d^2 * m^4 * n * x * e^{(m \log(e) + m \log(x))} + 540 * A * a * b * c * d^2 * m^4 * n * x * e^{(m \log(e) + m \log(x))} + 510 * B * a * b * c * d^2 * m^4 * n * x * e^{(m \log(e) + m \log(x))} + 255 * A * b^2 * c * d^2 * m^4 * n * x * e^{(m \log(e) + m \log(x))} + 240 * B * b^2 * c * d^2 * m^4 * n * x * e^{(m \log(e) + m \log(x))} + 90 * A * a^2 * d^3 * m^4 * n * x * e^{(m \log(e) + m \log(x))} + 85 * B * a^2 * d^3 * m^4 * n * x * e^{(m \log(e) + m \log(x))} + 170 * A * a * b * d^3 * m^4 * n * x * e^{(m \log(e) + m \log(x))} + 160 * B * a * b * d^3 * m^4 * n * x * e^{(m \log(e) + m \log(x))} + 80 * A * b^2 * d^3 * m^4 * n * x * e^{(m \log(e) + m \log(x))} + 75 * B * b^2 * d^3 * m^4 * n * x * e^{(m \log(e) + m \log(x))} + 700 * A * a^2 * c^3 * m^3 * n^2 * x * e^{(m \log(e) + m \log(x))} + 620 * B * a^2 * c^3 * m^3 * n^2 * x * e^{(m \log(e) + m \log(x))} + 1240 * A * a * b * c^3 * m^3 * n^2 * x * e^{(m \log(e) + m \log(x))} + 1096 * B * a * b * c^3 * m^3 * n^2 * x * e^{(m \log(e) + m \log(x))} + 548 * A * b^2 * c^3 * m^3 * n^2 * x * e^{(m \log(e) + m \log(x))} + 484 * B * b^2 * c^3 * m^3 * n^2 * x * e^{(m \log(e) + m \log(x))} + 1860 * A * a^2 * c^2 * d * m^3 * n^2 * x * e^{(m \log(e) + m \log(x))} + 1644 * B * a^2 * c^2 * d * m^3 * n^2 * x * e^{(m \log(e) + m \log(x))} + 3288 * A * a * b * c^2 * d * m^3 * n^2 * x * e^{(m \log(e) + m \log(x))} + 2904 * B * a * b * c^2 * d * m^3 * n^2 * x * e^{(m \log(e) + m \log(x))} + 1452 * A * b^2 * c^2 * d * m^3 * n^2 * x * e^{(m \log(e) + m \log(x))} + 1284 * B * b^2 * c^2 * d * m^3 * n^2 * x * e^{(m \log(e) + m \log(x))} + 1644 * A * a^2 * c * d^2 * m^3 * n^2 * x * e^{(m \log(e) + m \log(x))} + 1452 * B * a^2 * c * d^2 * m^3 * n^2 * x * e^{(m \log(e) + m \log(x))} + 2904 * A * a * b * c * d^2 * m^3 * n^2 * x * e^{(m \log(e) + m \log(x))} + 2568 * B * a * b$

$*c*d^2*m^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 1284*A*b^2*c*d^2*m^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 1140*B*b^2*c*d^2*m^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 484*A*a^2*d^3*m^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 428*B*a^2*d^3*m^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 856*A*a*b*d^3*m^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 760*B*a*b*d^3*m^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 380*A*b^2*d^3*m^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 340*B*b^2*d^3*m^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 2205*A*a^2*c^3*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 1740*B*a^2*c^3*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 3480*A*a*b*c^3*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 2766*B*a*b*c^3*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 1383*A*b^2*c^3*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 1116*B*b^2*c^3*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 5220*A*a^2*c^2*d*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 4149*B*a^2*c^2*d*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 8298*A*a*b*c^2*d*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 6696*B*a*b*c^2*d*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 3348*A*b^2*c^2*d*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 2763*B*b^2*c^2*d*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 4149*A*a^2*c*d^2*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 3348*B*a^2*c*d^2*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 6696*A*a*b*c*d^2*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 5526*B*a*b*c*d^2*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 2763*A*b^2*c*d^2*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 2340*B*b^2*c*d^2*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 1116*A*a^2*d^3*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 921*B*a^2*d^3*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 1842*A*a*b*d^3*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 1560*B*a*b*d^3*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 780*A*b^2*d^3*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 675*B*b^2*d^3*m^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 3248*A*a^2*c^3*m*n^4*x*e^{(m*\log(e) + m*\log(x))} + 2088*B*a^2*c^3*m*n^4*x*e^{(m*\log(e) + m*\log(x))} + 4176*A*a*b*c^3*m*n^4*x*e^{(m*\log(e) + m*\log(x))} + 2808*B*a*b*c^3*m*n^4*x*e^{(m*\log(e) + m*\log(x))} + 1404*A*b^2*c^3*m*n^4*x*e^{(m*\log(e) + m*\log(x))} + 1016*B*b^2*c^3*m*n^4*x*e^{(m*\log(e) + m*\log(x))} + 6264*A*a^2*c^2*d*m*n^4*x*e^{(m*\log(e) + m*\log(x))} + 4212*B*a^2*c^2*d*m*n^4*x*e^{(m*\log(e) + m*\log(x))} + 8424*A*a*b*c^2*d*m*n^4*x*e^{(m*\log(e) + m*\log(x))} + 6096*B*a*b*c^2*d*m*n^4*x*e^{(m*\log(e) + m*\log(x))} + 3048*A*b^2*c^2*d*m*n^4*x*e^{(m*\log(e) + m*\log(x))} + 2376*B*b^2*c^2*d*m*n^4*x*e^{(m*\log(e) + m*\log(x))} + 4212*A*a^2*c*d^2*m*n^4*x*e^{(m*\log(e) + m*\log(x))} + 3048*B*a^2*c*d^2*m*n^4*x*e^{(m*\log(e) + m*\log(x))} + 6096*A*a*b*c*d^2*m*n^4*x*e^{(m*\log(e) + m*\log(x))} + 4752*B*a*b*c*d^2*m*n^4*x*e^{(m*\log(e) + m*\log(x))} + 2376*A*b^2*c*d^2*m*n^4*x*e^{(m*\log(e) + m*\log(x))} + 1944*B*b^2*c*d^2*m*n^4*x*e^{(m*\log(e) + m*\log(x))} + 1016*A*a^2*d^3*m*n^4*x*e^{(m*\log(e) + m*\log(x))} + 792*B*a^2*d^3*m*n^4*x*e^{(m*\log(e) + m*\log(x))} + 1584*A*a*b*d^3*m*n^4*x*e^{(m*\log(e) + m*\log(x))} + 1296*B*a*b*d^3*m*n^4*x*e^{(m*\log(e) + m*\log(x))} + 648*A*b^2*d^3*m*n^4*x*e^{(m*\log(e) + m*\log(x))} + 548*B*b^2*d^3*m*n^4*x*e^{(m*\log(e) + m*\log(x))} + 1764*A*a^2*c^3*n^5*x*e^{(m*\log(e) + m*\log(x))} + 720*B*a^2*c^3*n^5*x*e^{(m*\log(e) + m*\log(x))} + 1440*A*a*b*c^3*n^5*x*e^{(m*\log(e) + m*\log(x))} + 720*B*a*b*c^3*n^5*x*e^{(m*\log(e) + m*\log(x))} + 360*A*b^2*c^3*n^5*x*e^{(m*\log(e) + m*\log(x))} + 240*B*b^2*c^3*n^5*x*e^{(m*\log(e) + m*\log(x))} + 2160*A*a^2*c^2*d*n^5*x*e^{(m*\log(e) + m*\log(x))} + 1080*B*a^2*c^2*d*n^5*x*e^{(m*\log(e) + m*\log(x))} + 2160*A*a*b*c^2*d*n^5*x*e^{(m*\log(e) + m*\log(x))} + 1440*B*a*b*c^2*d*n^5*x*e^{(m*\log(e) + m*\log(x))} + 720*A*b^2*c$

$$\begin{aligned}
& c^2*d^n^5*x*e^{(m*\log(e) + m*\log(x))} + 540*B*b^2*c^2*d^n^5*x*e^{(m*\log(e) + m*\log(x))} + 1080*A*a^2*c*d^2*n^5*x*e^{(m*\log(e) + m*\log(x))} + 720*B*a^2*c*d^2*n^5*x*e^{(m*\log(e) + m*\log(x))} + 1440*A*a*b*c*d^2*n^5*x*e^{(m*\log(e) + m*\log(x))} + 1080*B*a*b*c*d^2*n^5*x*e^{(m*\log(e) + m*\log(x))} + 540*A*b^2*c*d^2*n^5*x*e^{(m*\log(e) + m*\log(x))} + 432*B*b^2*c*d^2*n^5*x*e^{(m*\log(e) + m*\log(x))} \\
& + 240*A*a^2*d^3*n^5*x*e^{(m*\log(e) + m*\log(x))} + 180*B*a^2*d^3*n^5*x*e^{(m*\log(e) + m*\log(x))} + 360*A*a*b*d^3*n^5*x*e^{(m*\log(e) + m*\log(x))} + 288*B*a*b*d^3*n^5*x*e^{(m*\log(e) + m*\log(x))} + 144*A*b^2*d^3*n^5*x*e^{(m*\log(e) + m*\log(x))} + 120*B*b^2*d^3*n^5*x*e^{(m*\log(e) + m*\log(x))} + 15*B*b^2*d^3*m^4*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 150*B*b^2*d^3*m^3*n*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 510*B*b^2*d^3*m^2*n^2*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 675*B*b^2*d^3*m*n^3*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 274*B*b^2*d^3*n^4*x*x^{(6*n)}*e^{(m*\log(e) + m*\log(x))} + 45*B*b^2*c*d^2*m^4*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 30*B*a*b*d^3*m^4*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 15*A*b^2*d^3*m^4*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 15*B*b^2*d^3*m^4*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 480*B*b^2*c*d^2*m^3*n*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 320*B*a*b*d^3*m^3*n*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 160*A*b^2*d^3*m^3*n*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 1710*B*b^2*c*d^2*m^2*n^2*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 1140*B*a*b*d^3*m^2*n^2*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 570*A*b^2*d^3*m^2*n^2*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 510*B*b^2*d^3*m^2*n^2*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 2340*B*b^2*c*d^2*m*n^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 1560*B*a*b*d^3*m*n^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 780*A*b^2*d^3*m*n^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 675*B*b^2*d^3*m*n^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 972*B*b^2*c*d^2*n^4*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 648*B*a*b*d^3*n^4*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 324*A*b^2*d^3*n^4*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 274*B*b^2*d^3*n^4*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 45*B*b^2*c^2*d*m^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 90*B*a*b*c*d^2*m^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 45*A*b^2*c*d^2*m^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 15*B*a^2*d^3*m^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 30*A*a*b*d^3*m^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 30*B*a*b*d^3*m^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 15*A*b^2*d^3*m^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 15*B*b^2*d^3*m^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 510*B*b^2*c^2*d*m^3*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 1020*B*a*b*c*d^2*m^3*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 480*B*b^2*c*d^2*m^3*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 170*B*a^2*d^3*m^3*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 340*A*a*b*d^3*m^3*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 320*B*a*b*d^3*m^3*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 160*A*b^2*d^3*m^3*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 150*B*b^2*d^3*m^3*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 1926*B*b^2*c^2*d*m^2*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3852*B*a*b*c*d^2*m^2*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 1926*A*b^2*c*d^2*m^2*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 1710*B*b^2*c*d^2*m^2*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 642*B*a^2*d^3*m^2*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 1284*A*a*b*d^3*m^2*n^2*
\end{aligned}$$

$$\begin{aligned}
& x^{4n} e^{(m \log(e) + m \log(x))} + 1140 B^a b^2 d^3 m^2 n^2 x^{4n} e^{(m \log(e) + m \log(x))} \\
& + 570 A^a b^2 d^3 m^2 n^2 x^{4n} e^{(m \log(e) + m \log(x))} + 510 B^a b^2 d^3 m^2 n^2 x^{4n} e^{(m \log(e) + m \log(x))} \\
& + 2763 B^a b^2 c^2 d^2 m^3 n^3 x^{4n} e^{(m \log(e) + m \log(x))} + 5526 B^a b^2 c^2 d^2 m^3 n^3 x^{4n} e^{(m \log(e) + m \log(x))} \\
& + 2763 A^a b^2 c^2 d^2 m^3 n^3 x^{4n} e^{(m \log(e) + m \log(x))} + 2340 B^a b^2 c^2 d^2 m^3 n^3 x^{4n} e^{(m \log(e) + m \log(x))} \\
& + 921 B^a d^3 m^3 n^3 x^{4n} e^{(m \log(e) + m \log(x))} + 1842 A^a b^2 d^3 m^3 n^3 x^{4n} e^{(m \log(e) + m \log(x))} \\
& + 1560 B^a b^2 d^3 m^3 n^3 x^{4n} e^{(m \log(e) + m \log(x))} + 780 A^a b^2 d^3 m^3 n^3 x^{4n} e^{(m \log(e) + m \log(x))} \\
& + 675 B^a b^2 d^3 m^3 n^3 x^{4n} e^{(m \log(e) + m \log(x))} + 1188 B^a b^2 c^2 d^2 m^4 n^4 x^{4n} e^{(m \log(e) + m \log(x))} \\
& + 2376 B^a b^2 c^2 d^2 m^4 n^4 x^{4n} e^{(m \log(e) + m \log(x))} + 1188 A^a b^2 c^2 d^2 m^4 n^4 x^{4n} e^{(m \log(e) + m \log(x))} \\
& + 972 B^a b^2 c^2 d^2 m^4 n^4 x^{4n} e^{(m \log(e) + m \log(x))} + 396 B^a d^3 m^4 n^4 x^{4n} e^{(m \log(e) + m \log(x))} \\
& + 792 A^a b^2 d^3 m^4 n^4 x^{4n} e^{(m \log(e) + m \log(x))} + 648 B^a b^2 d^3 m^4 n^4 x^{4n} e^{(m \log(e) + m \log(x))} \\
& + 324 A^a b^2 d^3 m^4 n^4 x^{4n} e^{(m \log(e) + m \log(x))} + 274 B^a b^2 d^3 m^4 n^4 x^{4n} e^{(m \log(e) + m \log(x))} \\
& + 15 B^a b^2 c^3 m^4 n^4 x^{3n} e^{(m \log(e) + m \log(x))} + 90 B^a b^2 c^3 m^4 n^4 x^{3n} e^{(m \log(e) + m \log(x))} \\
& + 45 A^a b^2 c^3 m^4 n^4 x^{3n} e^{(m \log(e) + m \log(x))} + 45 B^a b^2 c^3 m^4 n^4 x^{3n} e^{(m \log(e) + m \log(x))} \\
& + 45 B^a d^2 c^2 m^4 n^4 x^{3n} e^{(m \log(e) + m \log(x))} + 90 A^a b^2 c^2 d^2 m^4 n^4 x^{3n} e^{(m \log(e) + m \log(x))} \\
& + 90 B^a b^2 c^2 d^2 m^4 n^4 x^{3n} e^{(m \log(e) + m \log(x))} + 45 A^a b^2 c^2 d^2 m^4 n^4 x^{3n} e^{(m \log(e) + m \log(x))} \\
& + 90 A^a b^2 c^2 d^2 m^4 n^4 x^{3n} e^{(m \log(e) + m \log(x))} + 45 B^a b^2 c^2 d^2 m^4 n^4 x^{3n} e^{(m \log(e) + m \log(x))} \\
& + 15 A^a b^2 d^3 m^4 n^4 x^{3n} e^{(m \log(e) + m \log(x))} + 15 B^a d^3 m^4 n^4 x^{3n} e^{(m \log(e) + m \log(x))} \\
& + 30 A^a b^2 d^3 m^4 n^4 x^{3n} e^{(m \log(e) + m \log(x))} + 30 B^a b^2 d^3 m^4 n^4 x^{3n} e^{(m \log(e) + m \log(x))} \\
& + 15 A^a b^2 d^3 m^4 n^4 x^{3n} e^{(m \log(e) + m \log(x))} + 15 B^a b^2 d^3 m^4 n^4 x^{3n} e^{(m \log(e) + m \log(x))} \\
& + 180 B^a b^2 c^3 m^3 n^3 x^{3n} e^{(m \log(e) + m \log(x))} + 1080 B^a b^2 c^3 m^3 n^3 x^{3n} e^{(m \log(e) + m \log(x))} \\
& + 540 A^a b^2 c^3 m^3 n^3 x^{3n} e^{(m \log(e) + m \log(x))} + 510 B^a b^2 c^3 m^3 n^3 x^{3n} e^{(m \log(e) + m \log(x))} \\
& + 540 B^a d^2 c^2 m^3 n^3 x^{3n} e^{(m \log(e) + m \log(x))} + 1080 A^a b^2 c^2 d^2 m^3 n^3 x^{3n} e^{(m \log(e) + m \log(x))} \\
& + 1020 B^a b^2 c^2 d^2 m^3 n^3 x^{3n} e^{(m \log(e) + m \log(x))} + 510 A^a b^2 c^2 d^2 m^3 n^3 x^{3n} e^{(m \log(e) + m \log(x))} \\
& + 480 B^a b^2 c^2 d^2 m^3 n^3 x^{3n} e^{(m \log(e) + m \log(x))} + 180 A^a d^2 c^2 m^3 n^3 x^{3n} e^{(m \log(e) + m \log(x))} \\
& + 170 B^a d^2 c^2 m^3 n^3 x^{3n} e^{(m \log(e) + m \log(x))} + 340 A^a b^2 d^3 m^3 n^3 x^{3n} e^{(m \log(e) + m \log(x))} \\
& + 320 B^a b^2 d^3 m^3 n^3 x^{3n} e^{(m \log(e) + m \log(x))} + 160 A^a b^2 d^3 m^3 n^3 x^{3n} e^{(m \log(e) + m \log(x))} \\
& + 150 B^a b^2 d^3 m^3 n^3 x^{3n} e^{(m \log(e) + m \log(x))} + 726 B^a b^2 c^3 m^2 n^2 x^{3n} e^{(m \log(e) + m \log(x))} \\
& + 4356 B^a b^2 c^3 m^2 n^2 x^{3n} e^{(m \log(e) + m \log(x))} + 2178 A^a b^2 c^3 m^2 n^2 x^{3n} e^{(m \log(e) + m \log(x))} \\
& + 1926 B^a b^2 c^3 m^2 n^2 x^{3n} e^{(m \log(e) + m \log(x))} + 2178 B^a d^2 c^2 m^2 n^2 x^{3n} e^{(m \log(e) + m \log(x))} \\
& + 4356 A^a b^2 c^2 d^2 m^2 n^2 x^{3n} e^{(m \log(e) + m \log(x))} + 3852 B^a b^2 c^2 d^2 m^2 n^2 x^{3n} e^{(m \log(e) + m \log(x))} \\
& + 1926 A^a b^2 c^2 d^2 m^2 n^2 x^{3n} e^{(m \log(e) + m \log(x))}
\end{aligned}$$

$x)) + 1710*B*b^2*c*d^2*m^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 726*A*a^2*d^3*m^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 642*B*a^2*d^3*m^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1284*A*a*b*d^3*m^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1140*B*a*b*d^3*m^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 570*A*b^2*d^3*m^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 510*B*b^2*d^3*m^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1116*B*b^2*c^3*m^n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 6696*B*a*b*c^2*d*m^n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3348*A*b^2*c^2*d*m^n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 2763*B*b^2*c^2*d*m^n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3348*B*a^2*c*d^2*m^n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 6696*A*a*b*c*d^2*m^n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 5526*B*a*b*c*d^2*m^n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 2763*A*b^2*c*d^2*m^n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 2340*B*b^2*c*d^2*m^n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1116*A*a^2*d^3*m^n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 921*B*a^2*d^3*m^n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1842*A*a*b*d^3*m^n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1560*B*a*b*d^3*m^n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 780*A*b^2*d^3*m^n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 675*B*b^2*d^3*m^n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 508*B*b^2*c^3*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3048*B*a*b*c^2*d*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1524*A*b^2*c^2*d*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1188*B*b^2*c^2*d*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1524*B*a^2*c*d^2*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3048*A*a*b*c*d^2*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 2376*B*a*b*c*d^2*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 1188*A*b^2*c*d^2*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 972*B*b^2*c*d^2*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 508*A*a^2*d^3*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 396*B*a^2*d^3*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 792*A*a*b*d^3*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 648*B*a*b*d^3*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 324*A*b^2*d^3*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 274*B*b^2*d^3*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 30*B*a*b*c^3*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 15*A*b^2*c^3*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 15*B*b^2*c^3*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 45*B*a^2*c^2*d*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 90*A*a*b*c^2*d*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 90*B*a*b*c^2*d*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 45*A*b^2*c^2*d*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 45*B*b^2*c^2*d*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 45*A*a^2*c*d^2*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 45*B*a^2*c*d^2*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 90*A*a*b*c*d^2*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 90*B*a*b*c*d^2*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 45*A*b^2*c*d^2*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 45*B*b^2*c*d^2*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 15*A*a^2*d^3*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 15*B*a^2*d^3*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 30*A*a*b*d^3*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 30*B*a*b*d^3*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 15*A*b^2*d^3*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 15*B*b^2*d^3*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 380*B*a*b*c^3*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 190*A*b^2*c^3*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 180*B*b^2*c^3*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 570*B*a$

$$\begin{aligned}
& 2^2 c^2 d^2 m^3 n^3 x^{2n} e^{(m \log(e) + m \log(x))} + 1140 A^2 a^2 b^2 c^2 d^2 m^3 n^3 x^{2n} e^{(m \log(e) + m \log(x))} \\
& + 1080 B^2 a^2 b^2 c^2 d^2 m^3 n^3 x^{2n} e^{(m \log(e) + m \log(x))} + 540 A^2 a^2 b^2 c^2 d^2 m^3 n^3 x^{2n} e^{(m \log(e) + m \log(x))} \\
& + 510 B^2 b^2 c^2 d^2 m^3 n^3 x^{2n} e^{(m \log(e) + m \log(x))} + 570 A^2 a^2 c^2 d^2 m^3 n^3 x^{2n} e^{(m \log(e) + m \log(x))} \\
& + 540 B^2 a^2 c^2 d^2 m^3 n^3 x^{2n} e^{(m \log(e) + m \log(x))} + 1080 A^2 a^2 b^2 c^2 d^2 m^3 n^3 x^{2n} e^{(m \log(e) + m \log(x))} \\
& + 1020 B^2 a^2 b^2 c^2 d^2 m^3 n^3 x^{2n} e^{(m \log(e) + m \log(x))} + 510 A^2 b^2 c^2 d^2 m^3 n^3 x^{2n} e^{(m \log(e) + m \log(x))} \\
& + 480 B^2 b^2 c^2 d^2 m^3 n^3 x^{2n} e^{(m \log(e) + m \log(x))} + 180 A^2 a^2 d^3 m^3 n^3 x^{2n} e^{(m \log(e) + m \log(x))} \\
& + 170 B^2 a^2 d^3 m^3 n^3 x^{2n} e^{(m \log(e) + m \log(x))} + 340 A^2 a^2 b^2 d^3 m^3 n^3 x^{2n} e^{(m \log(e) + m \log(x))} \\
& + 320 B^2 a^2 b^2 d^3 m^3 n^3 x^{2n} e^{(m \log(e) + m \log(x))} + 160 A^2 b^2 d^3 m^3 n^3 x^{2n} e^{(m \log(e) + m \log(x))} \\
& + 150 B^2 b^2 d^3 m^3 n^3 x^{2n} e^{(m \log(e) + m \log(x))} + 1644 A^2 a^2 b^2 c^3 m^2 n^2 x^{2n} e^{(m \log(e) + m \log(x))} \\
& + 822 A^2 b^2 c^3 m^2 n^2 x^{2n} e^{(m \log(e) + m \log(x))} + 726 B^2 b^2 c^3 m^2 n^2 x^{2n} e^{(m \log(e) + m \log(x))} \\
& + 2466 B^2 a^2 c^2 d^2 m^2 n^2 x^{2n} e^{(m \log(e) + m \log(x))} + 4932 A^2 a^2 b^2 c^2 d^2 m^2 n^2 x^{2n} e^{(m \log(e) + m \log(x))} \\
& + 4356 B^2 a^2 b^2 c^2 d^2 m^2 n^2 x^{2n} e^{(m \log(e) + m \log(x))} + 2178 A^2 b^2 c^2 d^2 m^2 n^2 x^{2n} e^{(m \log(e) + m \log(x))} \\
& + 1926 B^2 b^2 c^2 d^2 m^2 n^2 x^{2n} e^{(m \log(e) + m \log(x))} + 2466 A^2 a^2 c^2 d^2 m^2 n^2 x^{2n} e^{(m \log(e) + m \log(x))} \\
& + 2178 B^2 a^2 c^2 d^2 m^2 n^2 x^{2n} e^{(m \log(e) + m \log(x))} + 4356 A^2 a^2 b^2 c^2 d^2 m^2 n^2 x^{2n} e^{(m \log(e) + m \log(x))} \\
& + 3852 B^2 a^2 b^2 c^2 d^2 m^2 n^2 x^{2n} e^{(m \log(e) + m \log(x))} + 1926 A^2 b^2 c^2 d^2 m^2 n^2 x^{2n} e^{(m \log(e) + m \log(x))} \\
& + 1710 B^2 b^2 c^2 d^2 m^2 n^2 x^{2n} e^{(m \log(e) + m \log(x))} + 726 A^2 a^2 d^3 m^2 n^2 x^{2n} e^{(m \log(e) + m \log(x))} \\
& + 642 B^2 a^2 d^3 m^2 n^2 x^{2n} e^{(m \log(e) + m \log(x))} + 1284 A^2 a^2 b^2 d^3 m^2 n^2 x^{2n} e^{(m \log(e) + m \log(x))} \\
& + 1140 B^2 a^2 b^2 d^3 m^2 n^2 x^{2n} e^{(m \log(e) + m \log(x))} + 570 A^2 b^2 d^3 m^2 n^2 x^{2n} e^{(m \log(e) + m \log(x))} \\
& + 510 B^2 b^2 d^3 m^2 n^2 x^{2n} e^{(m \log(e) + m \log(x))} + 2766 B^2 a^2 b^2 c^3 m^2 n^3 x^{2n} e^{(m \log(e) + m \log(x))} \\
& + 1383 A^2 b^2 c^3 m^2 n^3 x^{2n} e^{(m \log(e) + m \log(x))} + 1116 B^2 b^2 c^3 m^2 n^3 x^{2n} e^{(m \log(e) + m \log(x))} \\
& + 4149 B^2 a^2 c^2 d^2 m^2 n^3 x^{2n} e^{(m \log(e) + m \log(x))} + 8298 A^2 a^2 b^2 c^2 d^2 m^2 n^3 x^{2n} e^{(m \log(e) + m \log(x))} \\
& + 6696 B^2 a^2 b^2 c^2 d^2 m^2 n^3 x^{2n} e^{(m \log(e) + m \log(x))} + 3348 A^2 b^2 c^2 d^2 m^2 n^3 x^{2n} e^{(m \log(e) + m \log(x))} \\
& + 2763 B^2 b^2 c^2 d^2 m^2 n^3 x^{2n} e^{(m \log(e) + m \log(x))} + 4149 A^2 a^2 c^2 d^2 m^2 n^3 x^{2n} e^{(m \log(e) + m \log(x))} \\
& + 3348 B^2 a^2 c^2 d^2 m^2 n^3 x^{2n} e^{(m \log(e) + m \log(x))} + 6696 A^2 a^2 b^2 c^2 d^2 m^2 n^3 x^{2n} e^{(m \log(e) + m \log(x))} \\
& + 5526 B^2 a^2 b^2 c^2 d^2 m^2 n^3 x^{2n} e^{(m \log(e) + m \log(x))} + 2763 A^2 b^2 c^2 d^2 m^2 n^3 x^{2n} e^{(m \log(e) + m \log(x))} \\
& + 2340 B^2 b^2 c^2 d^2 m^2 n^3 x^{2n} e^{(m \log(e) + m \log(x))} + 1116 A^2 a^2 d^3 m^2 n^3 x^{2n} e^{(m \log(e) + m \log(x))} \\
& + 921 B^2 a^2 d^3 m^2 n^3 x^{2n} e^{(m \log(e) + m \log(x))} + 1842 A^2 a^2 b^2 d^3 m^2 n^3 x^{2n} e^{(m \log(e) + m \log(x))} \\
& + 1560 B^2 a^2 b^2 d^3 m^2 n^3 x^{2n} e^{(m \log(e) + m \log(x))} + 780 A^2 b^2 d^3 m^2 n^3 x^{2n} e^{(m \log(e) + m \log(x))} \\
& + 675 B^2 b^2 d^3 m^2 n^3 x^{2n} e^{(m \log(e) + m \log(x))} + 1404 B^2 a^2 b^2 c^3 m^2 n^4 x^{2n} e^{(m \log(e) + m \log(x))}
\end{aligned}$$

$x)) + 702*A*b^2*c^3*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 508*B*b^2*c^3*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 2106*B*a^2*c^2*d*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 4212*A*a*b*c^2*d*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3048*B*a*b*c^2*d*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1524*A*b^2*c^2*d*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1188*B*b^2*c^2*d*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 2106*A*a^2*c*d^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1524*B*a^2*c*d^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3048*A*a*b*c*d^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 2376*B*a*b*c*d^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 1188*A*b^2*c*d^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 972*B*b^2*c*d^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 508*A*a^2*d^3*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 396*B*a^2*d^3*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 792*A*a*b*d^3*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 648*B*a*b*d^3*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 324*A*b^2*d^3*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 274*B*b^2*d^3*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 15*B*a^2*c^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 30*A*a*b*c^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 30*B*a*b*c^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*A*b^2*c^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*B*b^2*c^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 45*A*a^2*c^2*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 45*B*a^2*c^2*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 90*A*a*b*c^2*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 90*B*a*b*c^2*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 45*A*b^2*c^2*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 45*B*b^2*c^2*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 45*A*a^2*c*d^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 90*A*a*b*c*d^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 90*B*a*b*c*d^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 45*A*b^2*c*d^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 45*B*b^2*c*d^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*A*a^2*d^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*B*a^2*d^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 30*A*a*b*d^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 30*B*a*b*d^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*A*b^2*d^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*B*b^2*d^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 200*B*a^2*c^3*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 400*A*a*b*c^3*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 380*B*a*b*c^3*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 190*A*b^2*c^3*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 180*B*b^2*c^3*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 600*A*a^2*c^2*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 570*B*a^2*c^2*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1140*A*a*b*c^2*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1080*B*a*b*c^2*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 540*A*b^2*c^2*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 510*B*b^2*c^2*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 570*A*a^2*c*d^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 540*B*a^2*c*d^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1080*A*a*b*c*d^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 1020*B*a*b*c*d^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 510*A*b^2*c*d^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 480*B*b^2*c*d^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 180*A*a^2*d^3*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 170*B*a^2*d^3*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 340*A*a*b*d^3*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 320*B*a*b*d^3*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 160*A*b^2*d^3*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} +$

$$\begin{aligned}
& *b^2*c*d^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 972*B*b^2*c*d^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 508*A*a^2*d^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 396*B*a^2*d^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 792*A*a*b*d^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 648*B*a*b*d^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 324*A*b^2*d^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 274*B*b^2*d^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*A*a^2*c^3*m^4*x*e^{(m*\log(e) + m*\log(x))} + 15*B*a^2*c^3*m^4*x*e^{(m*\log(e) + m*\log(x))} + 30*A*a*b*c^3*m^4*x*e^{(m*\log(e) + m*\log(x))} + 15*A*b^2*c^3*m^4*x*e^{(m*\log(e) + m*\log(x))} + 15*B*b^2*c^3*m^4*x*e^{(m*\log(e) + m*\log(x))} + 45*A*a^2*c^2*d*m^4*x*e^{(m*\log(e) + m*\log(x))} + 45*B*a^2*c^2*d*m^4*x*e^{(m*\log(e) + m*\log(x))} + 90*A*a*b*c^2*d*m^4*x*e^{(m*\log(e) + m*\log(x))} + 90*B*a*b*c^2*d*m^4*x*e^{(m*\log(e) + m*\log(x))} + 45*A*b^2*c^2*d*m^4*x*e^{(m*\log(e) + m*\log(x))} + 45*B*b^2*c^2*d*m^4*x*e^{(m*\log(e) + m*\log(x))} + 45*A*a^2*c*d^2*m^4*x*e^{(m*\log(e) + m*\log(x))} + 90*A*a*b*c*d^2*m^4*x*e^{(m*\log(e) + m*\log(x))} + 90*B*a*b*c*d^2*m^4*x*e^{(m*\log(e) + m*\log(x))} + 45*A*b^2*c*d^2*m^4*x*e^{(m*\log(e) + m*\log(x))} + 45*B*b^2*c*d^2*m^4*x*e^{(m*\log(e) + m*\log(x))} + 15*A*a^2*d^3*m^4*x*e^{(m*\log(e) + m*\log(x))} + 15*B*a^2*d^3*m^4*x*e^{(m*\log(e) + m*\log(x))} + 30*A*a*b*d^3*m^4*x*e^{(m*\log(e) + m*\log(x))} + 30*B*a*b*d^3*m^4*x*e^{(m*\log(e) + m*\log(x))} + 15*A*b^2*d^3*m^4*x*e^{(m*\log(e) + m*\log(x))} + 15*B*b^2*d^3*m^4*x*e^{(m*\log(e) + m*\log(x))} + 210*A*a^2*c^3*m^3*n*x*e^{(m*\log(e) + m*\log(x))} + 200*B*a^2*c^3*m^3*n*x*e^{(m*\log(e) + m*\log(x))} + 400*A*a*b*c^3*m^3*n*x*e^{(m*\log(e) + m*\log(x))} + 380*B*a*b*c^3*m^3*n*x*e^{(m*\log(e) + m*\log(x))} + 190*A*b^2*c^3*m^3*n*x*e^{(m*\log(e) + m*\log(x))} + 180*B*b^2*c^3*m^3*n*x*e^{(m*\log(e) + m*\log(x))} + 600*A*a^2*c^2*d*m^3*n*x*e^{(m*\log(e) + m*\log(x))} + 570*B*a^2*c^2*d*m^3*n*x*e^{(m*\log(e) + m*\log(x))} + 1140*A*a*b*c^2*d*m^3*n*x*e^{(m*\log(e) + m*\log(x))} + 1080*B*a*b*c^2*d*m^3*n*x*e^{(m*\log(e) + m*\log(x))} + 540*A*b^2*c^2*d*m^3*n*x*e^{(m*\log(e) + m*\log(x))} + 510*B*b^2*c^2*d*m^3*n*x*e^{(m*\log(e) + m*\log(x))} + 570*A*a^2*c*d^2*m^3*n*x*e^{(m*\log(e) + m*\log(x))} + 540*B*a^2*c*d^2*m^3*n*x*e^{(m*\log(e) + m*\log(x))} + 1080*A*a*b*c*d^2*m^3*n*x*e^{(m*\log(e) + m*\log(x))} + 1020*B*a*b*c*d^2*m^3*n*x*e^{(m*\log(e) + m*\log(x))} + 510*A*b^2*c*d^2*m^3*n*x*e^{(m*\log(e) + m*\log(x))} + 480*B*b^2*c*d^2*m^3*n*x*e^{(m*\log(e) + m*\log(x))} + 180*A*a^2*d^3*m^3*n*x*e^{(m*\log(e) + m*\log(x))} + 170*B*a^2*d^3*m^3*n*x*e^{(m*\log(e) + m*\log(x))} + 340*A*a*b*d^3*m^3*n*x*e^{(m*\log(e) + m*\log(x))} + 320*B*a*b*d^3*m^3*n*x*e^{(m*\log(e) + m*\log(x))} + 160*A*b^2*d^3*m^3*n*x*e^{(m*\log(e) + m*\log(x))} + 150*B*b^2*d^3*m^3*n*x*e^{(m*\log(e) + m*\log(x))} + 1050*A*a^2*c^3*m^2*n^2*x*e^{(m*\log(e) + m*\log(x))} + 930*B*a^2*c^3*m^2*n^2*x*e^{(m*\log(e) + m*\log(x))} + 1860*A*a*b*c^3*m^2*n^2*x*e^{(m*\log(e) + m*\log(x))} + 1644*B*a*b*c^3*m^2*n^2*x*e^{(m*\log(e) + m*\log(x))} + 822*A*b^2*c^3*m^2*n^2*x*e^{(m*\log(e) + m*\log(x))} + 726*B*b^2*c^3*m^2*n^2*x*e^{(m*\log(e) + m*\log(x))} + 2790*A*a^2*c^2*d*m^2*n^2*x*e^{(m*\log(e) + m*\log(x))} + 2466*B*a^2*c^2*d*m^2*n^2*x*e^{(m*\log(e) + m*\log(x))} + 4932*A*a*b*c^2*d*m^2*n^2*x*e^{(m*\log(e) + m*\log(x))} + 4356*B*a*b*c^2*d*m^2*n^2*x*e^{(m*\log(e) + m*\log(x))} + 2178*A*b^2*c^2*d*m^2*n^2*x*e^{(m*\log(e) + m*\log(x))} + 1926*B*b^2*c^2*d*m^2*n^2*x*e^{(m*\log(e) + m*\log(x))} + 2466*A*a^2*c*d^2*m^2*n^2*x*e^{(m*\log(e) + m*\log(x))} + 2178*B*a^2*c*d^2*m
\end{aligned}$$

$$\begin{aligned}
& ^2n^2xe^{(m\log(e) + m\log(x))} + 4356A^2a^2b^2c^2d^2m^2n^2xe^{(m\log(e) + m\log(x))} + 3852B^2a^2b^2c^2d^2m^2n^2xe^{(m\log(e) + m\log(x))} + 1926A^2b^2c^2d^2m^2n^2xe^{(m\log(e) + m\log(x))} + 1710B^2b^2c^2d^2m^2n^2xe^{(m\log(e) + m\log(x))} + 726A^2a^2d^3m^2n^2xe^{(m\log(e) + m\log(x))} + 642B^2a^2d^3m^2n^2xe^{(m\log(e) + m\log(x))} + 1284A^2a^2b^2d^3m^2n^2xe^{(m\log(e) + m\log(x))} + 1140B^2a^2b^2d^3m^2n^2xe^{(m\log(e) + m\log(x))} + 570A^2b^2d^3m^2n^2xe^{(m\log(e) + m\log(x))} + 510B^2b^2d^3m^2n^2xe^{(m\log(e) + m\log(x))} + 2205A^2a^2c^3m^2n^3xe^{(m\log(e) + m\log(x))} + 1740B^2a^2c^3m^2n^3xe^{(m\log(e) + m\log(x))} + 3480A^2a^2b^2c^3m^2n^3xe^{(m\log(e) + m\log(x))} + 2766B^2a^2b^2c^3m^2n^3xe^{(m\log(e) + m\log(x))} + 1383A^2b^2c^3m^2n^3xe^{(m\log(e) + m\log(x))} + 1116B^2b^2c^3m^2n^3xe^{(m\log(e) + m\log(x))} + 5220A^2a^2c^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 4149B^2a^2c^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 8298A^2a^2b^2c^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 6696B^2a^2b^2c^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 3348A^2b^2c^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 2763B^2b^2c^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 4149A^2a^2c^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 3348B^2a^2c^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 6696A^2a^2b^2c^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 5526B^2a^2b^2c^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 2763A^2b^2c^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 2340B^2b^2c^2d^2m^2n^3xe^{(m\log(e) + m\log(x))} + 1116A^2a^2d^3m^2n^3xe^{(m\log(e) + m\log(x))} + 921B^2a^2d^3m^2n^3xe^{(m\log(e) + m\log(x))} + 1842A^2a^2b^2d^3m^2n^3xe^{(m\log(e) + m\log(x))} + 1560B^2a^2b^2d^3m^2n^3xe^{(m\log(e) + m\log(x))} + 780A^2b^2d^3m^2n^3xe^{(m\log(e) + m\log(x))} + 675B^2b^2d^3m^2n^3xe^{(m\log(e) + m\log(x))} + 1624A^2a^2c^3n^4xe^{(m\log(e) + m\log(x))} + 1044B^2a^2c^3n^4xe^{(m\log(e) + m\log(x))} + 2088A^2a^2b^2c^3n^4xe^{(m\log(e) + m\log(x))} + 1404B^2a^2b^2c^3n^4xe^{(m\log(e) + m\log(x))} + 702A^2b^2c^3n^4xe^{(m\log(e) + m\log(x))} + 508B^2b^2c^3n^4xe^{(m\log(e) + m\log(x))} + 3132A^2a^2c^2d^2n^4xe^{(m\log(e) + m\log(x))} + 2106B^2a^2c^2d^2n^4xe^{(m\log(e) + m\log(x))} + 4212A^2a^2b^2c^2d^2n^4xe^{(m\log(e) + m\log(x))} + 3048B^2a^2b^2c^2d^2n^4xe^{(m\log(e) + m\log(x))} + 1524A^2b^2c^2d^2n^4xe^{(m\log(e) + m\log(x))} + 1188B^2b^2c^2d^2n^4xe^{(m\log(e) + m\log(x))} + 2106A^2a^2c^2d^2n^4xe^{(m\log(e) + m\log(x))} + 1524B^2a^2c^2d^2n^4xe^{(m\log(e) + m\log(x))} + 3048A^2a^2b^2c^2d^2n^4xe^{(m\log(e) + m\log(x))} + 2376B^2a^2b^2c^2d^2n^4xe^{(m\log(e) + m\log(x))} + 1188A^2b^2c^2d^2n^4xe^{(m\log(e) + m\log(x))} + 972B^2b^2c^2d^2n^4xe^{(m\log(e) + m\log(x))} + 508A^2a^2d^3n^4xe^{(m\log(e) + m\log(x))} + 396B^2a^2d^3n^4xe^{(m\log(e) + m\log(x))} + 792A^2a^2b^2d^3n^4xe^{(m\log(e) + m\log(x))} + 648B^2a^2b^2d^3n^4xe^{(m\log(e) + m\log(x))} + 324A^2b^2d^3n^4xe^{(m\log(e) + m\log(x))} + 274B^2b^2d^3n^4xe^{(m\log(e) + m\log(x))} + 20B^2b^2d^3m^3xxx^{(6n)}e^{(m\log(e) + m\log(x))} + 150B^2b^2d^3m^2nxxx^{(6n)}e^{(m\log(e) + m\log(x))} + 340B^2b^2d^3m^2nxxx^{(6n)}e^{(m\log(e) + m\log(x))} + 225B^2b^2d^3n^3xxx^{(6n)}e^{(m\log(e) + m\log(x))} + 60B^2b^2c^2d^2m^3xxx^{(5n)}e^{(m\log(e) + m\log(x))} + 40B^2a^2b^2d^3m^3xxx^{(5n)}e^{(m\log(e) + m\log(x))} + 20A^2b^2d^3m^3xxx^{(5n)}e^{(m\log(e) + m\log(x))} + 20B^2b^2d^3m^3xxx^{(5n)}e^{(m\log(e) + m\log(x))} + 480B^2b^2c^2d^2m^2nxxx^{(5n)}e^{(m\log(e) + m\log(x))}
\end{aligned}$$

$$\begin{aligned}
&)) + 320*B*a*b*d^3*m^2*n*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 160*A*b^2*d^3* \\
&m^2*n*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 150*B*b^2*d^3*m^2*n*x*x^{(5*n)}*e^{(\\
&m*\log(e) + m*\log(x))} + 1140*B*b^2*c*d^2*m*n^2*x*x^{(5*n)}*e^{(m*\log(e) + m*\log \\
&(x))} + 760*B*a*b*d^3*m*n^2*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 380*A*b^2*d^ \\
&3*m*n^2*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 340*B*b^2*d^3*m*n^2*x*x^{(5*n)}*e \\
&^{(m*\log(e) + m*\log(x))} + 780*B*b^2*c*d^2*n^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(\\
&x))} + 520*B*a*b*d^3*n^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 260*A*b^2*d^3*n \\
&^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 225*B*b^2*d^3*n^3*x*x^{(5*n)}*e^{(m*\log \\
&(e) + m*\log(x))} + 60*B*b^2*c^2*d*m^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 12 \\
&0*B*a*b*c*d^2*m^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 60*A*b^2*c*d^2*m^3*x* \\
&x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 60*B*b^2*c*d^2*m^3*x*x^{(4*n)}*e^{(m*\log(e) \\
&+ m*\log(x))} + 20*B*a^2*d^3*m^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 40*A*a*b \\
&*d^3*m^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 40*B*a*b*d^3*m^3*x*x^{(4*n)}*e^{(\\
&m*\log(e) + m*\log(x))} + 20*A*b^2*d^3*m^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + \\
&20*B*b^2*d^3*m^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 510*B*b^2*c^2*d*m^2*n \\
&*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 1020*B*a*b*c*d^2*m^2*n*x*x^{(4*n)}*e^{(m* \\
&\log(e) + m*\log(x))} + 510*A*b^2*c*d^2*m^2*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x) \\
&)} + 480*B*b^2*c*d^2*m^2*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 170*B*a^2*d^3 \\
&*m^2*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 340*A*a*b*d^3*m^2*n*x*x^{(4*n)}*e^{(\\
&m*\log(e) + m*\log(x))} + 320*B*a*b*d^3*m^2*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x \\
&))} + 160*A*b^2*d^3*m^2*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 150*B*b^2*d^3* \\
&m^2*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 1284*B*b^2*c^2*d*m*n^2*x*x^{(4*n)}* \\
&e^{(m*\log(e) + m*\log(x))} + 2568*B*a*b*c*d^2*m*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m* \\
&\log(x))} + 1284*A*b^2*c*d^2*m*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 1140*B \\
&*b^2*c*d^2*m*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 428*B*a^2*d^3*m*n^2*x* \\
&x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 856*A*a*b*d^3*m*n^2*x*x^{(4*n)}*e^{(m*\log(e) \\
&+ m*\log(x))} + 760*B*a*b*d^3*m*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 380* \\
&A*b^2*d^3*m*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 340*B*b^2*d^3*m*n^2*x*x \\
&^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 921*B*b^2*c^2*d*n^3*x*x^{(4*n)}*e^{(m*\log(e) \\
&+ m*\log(x))} + 1842*B*a*b*c*d^2*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 921* \\
&A*b^2*c*d^2*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 780*B*b^2*c*d^2*n^3*x*x \\
&^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 307*B*a^2*d^3*n^3*x*x^{(4*n)}*e^{(m*\log(e) + \\
&m*\log(x))} + 614*A*a*b*d^3*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 520*B*a*b \\
&*d^3*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 260*A*b^2*d^3*n^3*x*x^{(4*n)}*e^{(\\
&m*\log(e) + m*\log(x))} + 225*B*b^2*d^3*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} \\
&+ 20*B*b^2*c^3*m^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 120*B*a*b*c^2*d*m^3 \\
&*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 60*A*b^2*c^2*d*m^3*x*x^{(3*n)}*e^{(m*\log(\\
&e) + m*\log(x))} + 60*B*b^2*c^2*d*m^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 60* \\
&B*a^2*c*d^2*m^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 120*A*a*b*c*d^2*m^3*x*x \\
&^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 120*B*a*b*c*d^2*m^3*x*x^{(3*n)}*e^{(m*\log(e) \\
&+ m*\log(x))} + 60*A*b^2*c*d^2*m^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 60*B*b \\
&^2*c*d^2*m^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 20*A*a^2*d^3*m^3*x*x^{(3*n)} \\
&*e^{(m*\log(e) + m*\log(x))} + 20*B*a^2*d^3*m^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x \\
&))} + 40*A*a*b*d^3*m^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 40*B*a*b*d^3*m^3* \\
&x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 20*A*b^2*d^3*m^3*x*x^{(3*n)}*e^{(m*\log(e)
\end{aligned}$$

$$\begin{aligned}
& 2^n^3 x^x^{(2n)} e^{(m \log(e) + m \log(x))} + 372 A a^2 d^3 n^3 x^x^{(2n)} e^{(m \log(e) + m \log(x))} + 307 B a^2 d^3 n^3 x^x^{(2n)} e^{(m \log(e) + m \log(x))} + \\
& 614 A a b d^3 n^3 x^x^{(2n)} e^{(m \log(e) + m \log(x))} + 520 B a b d^3 n^3 x^x^{(2n)} e^{(m \log(e) + m \log(x))} + 260 A b^2 d^3 n^3 x^x^{(2n)} e^{(m \log(e) + m \log(x))} + \\
& 225 B b^2 d^3 n^3 x^x^{(2n)} e^{(m \log(e) + m \log(x))} + 20 B a^2 c^3 m^3 x^x^n e^{(m \log(e) + m \log(x))} + 40 A a b c^3 m^3 x^x^n e^{(m \log(e) + m \log(x))} + \\
& 40 B a b c^3 m^3 x^x^n e^{(m \log(e) + m \log(x))} + 20 A b^2 c^3 m^3 x^x^n e^{(m \log(e) + m \log(x))} + 60 A a^2 c^2 d m^3 x^x^n e^{(m \log(e) + m \log(x))} + \\
& 60 B a^2 c^2 d m^3 x^x^n e^{(m \log(e) + m \log(x))} + 120 A a b c^2 d m^3 x^x^n e^{(m \log(e) + m \log(x))} + 120 B a b c^2 d m^3 x^x^n e^{(m \log(e) + m \log(x))} + \\
& 60 A b^2 c^2 d m^3 x^x^n e^{(m \log(e) + m \log(x))} + 60 B b^2 c^2 d m^3 x^x^n e^{(m \log(e) + m \log(x))} + 60 A a^2 c d^2 m^3 x^x^n e^{(m \log(e) + m \log(x))} + \\
& 120 A a b c d^2 m^3 x^x^n e^{(m \log(e) + m \log(x))} + 120 B a b c d^2 m^3 x^x^n e^{(m \log(e) + m \log(x))} + 60 A b^2 c d^2 m^3 x^x^n e^{(m \log(e) + m \log(x))} + \\
& 60 B b^2 c d^2 m^3 x^x^n e^{(m \log(e) + m \log(x))} + 20 A a^2 d^3 m^3 x^x^n e^{(m \log(e) + m \log(x))} + 20 B a^2 d^3 m^3 x^x^n e^{(m \log(e) + m \log(x))} + \\
& 40 A a b d^3 m^3 x^x^n e^{(m \log(e) + m \log(x))} + 40 B a b d^3 m^3 x^x^n e^{(m \log(e) + m \log(x))} + 20 A b^2 d^3 m^3 x^x^n e^{(m \log(e) + m \log(x))} + \\
& 20 B b^2 d^3 m^3 x^x^n e^{(m \log(e) + m \log(x))} + 200 B a^2 c^3 m^2 n x^x^n e^{(m \log(e) + m \log(x))} + 400 A a b c^3 m^2 n x^x^n e^{(m \log(e) + m \log(x))} + \\
& 380 B a b c^3 m^2 n x^x^n e^{(m \log(e) + m \log(x))} + 190 A b^2 c^3 m^2 n x^x^n e^{(m \log(e) + m \log(x))} + 180 B b^2 c^3 m^2 n x^x^n e^{(m \log(e) + m \log(x))} + \\
& 600 A a^2 c^2 d m^2 n x^x^n e^{(m \log(e) + m \log(x))} + 570 B a^2 c^2 d m^2 n x^x^n e^{(m \log(e) + m \log(x))} + 1140 A a b c^2 d m^2 n x^x^n e^{(m \log(e) + m \log(x))} + \\
& 1080 B a b c^2 d m^2 n x^x^n e^{(m \log(e) + m \log(x))} + 540 A b^2 c^2 d m^2 n x^x^n e^{(m \log(e) + m \log(x))} + 510 B b^2 c^2 d m^2 n x^x^n e^{(m \log(e) + m \log(x))} + \\
& 570 A a^2 c d^2 m^2 n x^x^n e^{(m \log(e) + m \log(x))} + 540 B a^2 c d^2 m^2 n x^x^n e^{(m \log(e) + m \log(x))} + 1080 A a b c d^2 m^2 n x^x^n e^{(m \log(e) + m \log(x))} + \\
& 1020 B a b c d^2 m^2 n x^x^n e^{(m \log(e) + m \log(x))} + 510 A b^2 c d^2 m^2 n x^x^n e^{(m \log(e) + m \log(x))} + 480 B b^2 c d^2 m^2 n x^x^n e^{(m \log(e) + m \log(x))} + \\
& 180 A a^2 d^3 m^2 n x^x^n e^{(m \log(e) + m \log(x))} + 170 B a^2 d^3 m^2 n x^x^n e^{(m \log(e) + m \log(x))} + 340 A a b d^3 m^2 n x^x^n e^{(m \log(e) + m \log(x))} + \\
& 320 B a b d^3 m^2 n x^x^n e^{(m \log(e) + m \log(x))} + 160 A b^2 d^3 m^2 n x^x^n e^{(m \log(e) + m \log(x))} + 150 B b^2 d^3 m^2 n x^x^n e^{(m \log(e) + m \log(x))} + \\
& 620 B a^2 c^3 m n^2 x^x^n e^{(m \log(e) + m \log(x))} + 1240 A a b c^3 m n^2 x^x^n e^{(m \log(e) + m \log(x))} + 1096 B a b c^3 m n^2 x^x^n e^{(m \log(e) + m \log(x))} + \\
& 548 A b^2 c^3 m n^2 x^x^n e^{(m \log(e) + m \log(x))} + 484 B b^2 c^3 m n^2 x^x^n e^{(m \log(e) + m \log(x))} + 1860 A a^2 c^2 d m n^2 x^x^n e^{(m \log(e) + m \log(x))} + \\
& 1644 B a^2 c^2 d m n^2 x^x^n e^{(m \log(e) + m \log(x))} + 3288 A a b c^2 d m n^2 x^x^n e^{(m \log(e) + m \log(x))} + 2904 B a b c^2 d m n^2 x^x^n e^{(m \log(e) + m \log(x))} + \\
& 1452 A b^2 c^2 d m n^2 x^x^n e^{(m \log(e) + m \log(x))} + 1284 B b^2 c^2 d m n^2 x^x^n e^{(m \log(e) + m \log(x))} + 1644 A a^2 c d^2 m n^2 x^x^n e^{(m \log(e) + m \log(x))} + \\
& 1644 B a^2 c d^2 m n^2 x^x^n e^{(m \log(e) + m \log(x))}
\end{aligned}$$

$(e) + m \log(x)) + 1452 * B * a^2 * c * d^2 * m * n^2 * x * x^n * e^{(m \log(e) + m \log(x))} + 2904 * A * a * b * c * d^2 * m * n^2 * x * x^n * e^{(m \log(e) + m \log(x))} + 2568 * B * a * b * c * d^2 * m * n^2 * x * x^n * e^{(m \log(e) + m \log(x))} + 1284 * A * b^2 * c * d^2 * m * n^2 * x * x^n * e^{(m \log(e) + m \log(x))} + 1140 * B * b^2 * c * d^2 * m * n^2 * x * x^n * e^{(m \log(e) + m \log(x))} + 484 * A * a^2 * d^3 * m * n^2 * x * x^n * e^{(m \log(e) + m \log(x))} + 428 * B * a^2 * d^3 * m * n^2 * x * x^n * e^{(m \log(e) + m \log(x))} + 856 * A * a * b * d^3 * m * n^2 * x * x^n * e^{(m \log(e) + m \log(x))} + 760 * B * a * b * d^3 * m * n^2 * x * x^n * e^{(m \log(e) + m \log(x))} + 380 * A * b^2 * d^3 * m * n^2 * x * x^n * e^{(m \log(e) + m \log(x))} + 340 * B * b^2 * d^3 * m * n^2 * x * x^n * e^{(m \log(e) + m \log(x))} + 580 * B * a^2 * c^3 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 1160 * A * a * b * c^3 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 922 * B * a * b * c^3 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 461 * A * b^2 * c^3 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 372 * B * b^2 * c^3 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 1740 * A * a^2 * c^2 * d * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 1383 * B * a^2 * c^2 * d * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 2766 * A * a * b * c^2 * d * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 2232 * B * a * b * c^2 * d * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 1116 * A * b^2 * c^2 * d * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 921 * B * b^2 * c^2 * d * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 1383 * A * a^2 * c * d^2 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 1116 * B * a^2 * c * d^2 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 2232 * A * a * b * c * d^2 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 1842 * B * a * b * c * d^2 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 921 * A * b^2 * c * d^2 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 780 * B * b^2 * c * d^2 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 372 * A * a^2 * d^3 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 307 * B * a^2 * d^3 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 614 * A * a * b * d^3 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 520 * B * a * b * d^3 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 260 * A * b^2 * d^3 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 225 * B * b^2 * d^3 * n^3 * x * x^n * e^{(m \log(e) + m \log(x))} + 20 * A * a^2 * c^3 * m^3 * x * e^{(m \log(e) + m \log(x))} + 20 * B * a^2 * c^3 * m^3 * x * e^{(m \log(e) + m \log(x))} + 40 * A * a * b * c^3 * m^3 * x * e^{(m \log(e) + m \log(x))} + 40 * B * a * b * c^3 * m^3 * x * e^{(m \log(e) + m \log(x))} + 20 * A * b^2 * c^3 * m^3 * x * e^{(m \log(e) + m \log(x))} + 20 * B * b^2 * c^3 * m^3 * x * e^{(m \log(e) + m \log(x))} + 60 * A * a^2 * c^2 * d * m^3 * x * e^{(m \log(e) + m \log(x))} + 60 * B * a^2 * c^2 * d * m^3 * x * e^{(m \log(e) + m \log(x))} + 120 * A * a * b * c^2 * d * m^3 * x * e^{(m \log(e) + m \log(x))} + 120 * B * a * b * c^2 * d * m^3 * x * e^{(m \log(e) + m \log(x))} + 60 * A * b^2 * c^2 * d * m^3 * x * e^{(m \log(e) + m \log(x))} + 60 * B * b^2 * c^2 * d * m^3 * x * e^{(m \log(e) + m \log(x))} + 60 * A * a^2 * c * d^2 * m^3 * x * e^{(m \log(e) + m \log(x))} + 120 * A * a * b * c * d^2 * m^3 * x * e^{(m \log(e) + m \log(x))} + 120 * B * a * b * c * d^2 * m^3 * x * e^{(m \log(e) + m \log(x))} + 60 * A * b^2 * c * d^2 * m^3 * x * e^{(m \log(e) + m \log(x))} + 60 * B * b^2 * c * d^2 * m^3 * x * e^{(m \log(e) + m \log(x))} + 20 * A * a^2 * d^3 * m^3 * x * e^{(m \log(e) + m \log(x))} + 20 * B * a^2 * d^3 * m^3 * x * e^{(m \log(e) + m \log(x))} + 40 * A * a * b * d^3 * m^3 * x * e^{(m \log(e) + m \log(x))} + 40 * B * a * b * d^3 * m^3 * x * e^{(m \log(e) + m \log(x))} + 20 * A * b^2 * d^3 * m^3 * x * e^{(m \log(e) + m \log(x))} + 20 * B * b^2 * d^3 * m^3 * x * e^{(m \log(e) + m \log(x))} + 210 * A * a^2 * c^3 * m^2 * n * x * e^{(m \log(e) + m \log(x))} + 200 * B * a^2 * c^3 * m^2 * n * x * e^{(m \log(e) + m \log(x))} + 400 * A * a * b * c^3 * m^2 * n * x * e^{(m \log(e) + m \log(x))} + 380 * B * a * b * c^3 * m^2 * n * x * e^{(m \log(e) + m \log(x))} + 190 * A * b^2 * c^3 * m^2 * n * x * e^{(m \log(e) + m \log(x))} + 180 * B * b^2 * c^3 * m^2 * n * x * e^{(m \log(e) + m \log(x))} + 600 * A * a^2 * c^2 * d * m^2 * n * x * e^{(m \log(e) + m \log(x))} + 570 * B * a^2 * c^2 * d * m^2 * n * x * e^{(m \log(e) + m \log(x))} + 1140 * A * a * b * c^2 * d * m^2 * n * x * e^{(m \log(e) + m \log(x))} + 1080 * B * a * b * c^2 * d * m^2 * n * x * e^{(m \log(e) + m \log(x))} +$

$m \log(x) + 540 A^2 b^2 c^2 d^2 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 510 B^2 b^2 c^2 d^2 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 570 A^2 a^2 c^2 d^2 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 540 B^2 a^2 c^2 d^2 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 1080 A^2 a^2 b^2 c^2 d^2 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 1020 B^2 a^2 b^2 c^2 d^2 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 510 A^2 b^2 c^2 d^2 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 480 B^2 b^2 c^2 d^2 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 180 A^2 a^2 d^3 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 170 B^2 a^2 d^3 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 340 A^2 a^2 b^2 d^3 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 320 B^2 a^2 b^2 d^3 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 160 A^2 b^2 d^3 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 150 B^2 b^2 d^3 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 700 A^2 a^2 c^3 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 620 B^2 a^2 c^3 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 1240 A^2 a^2 b^2 c^3 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 1096 B^2 a^2 b^2 c^3 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 548 A^2 b^2 c^3 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 484 B^2 b^2 c^3 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 1860 A^2 a^2 c^2 d^2 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 1644 B^2 a^2 c^2 d^2 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 3288 A^2 a^2 b^2 c^2 d^2 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 2904 B^2 a^2 b^2 c^2 d^2 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 1452 A^2 b^2 c^2 d^2 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 1284 B^2 b^2 c^2 d^2 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 1644 A^2 a^2 c^2 d^2 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 1452 B^2 a^2 c^2 d^2 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 2904 A^2 a^2 b^2 c^2 d^2 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 2568 B^2 a^2 b^2 c^2 d^2 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 1284 A^2 b^2 c^2 d^2 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 1140 B^2 b^2 c^2 d^2 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 484 A^2 a^2 d^3 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 428 B^2 a^2 d^3 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 856 A^2 a^2 b^2 d^3 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 760 B^2 a^2 b^2 d^3 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 380 A^2 b^2 d^3 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 340 B^2 b^2 d^3 m^2 n^2 x^m e^{(m \log(e) + m \log(x))} + 735 A^2 a^2 c^3 n^3 x^m e^{(m \log(e) + m \log(x))} + 580 B^2 a^2 c^3 n^3 x^m e^{(m \log(e) + m \log(x))} + 1160 A^2 a^2 b^2 c^3 n^3 x^m e^{(m \log(e) + m \log(x))} + 922 B^2 a^2 b^2 c^3 n^3 x^m e^{(m \log(e) + m \log(x))} + 461 A^2 b^2 c^3 n^3 x^m e^{(m \log(e) + m \log(x))} + 372 B^2 b^2 c^3 n^3 x^m e^{(m \log(e) + m \log(x))} + 1740 A^2 a^2 c^2 d^2 n^3 x^m e^{(m \log(e) + m \log(x))} + 1383 B^2 a^2 c^2 d^2 n^3 x^m e^{(m \log(e) + m \log(x))} + 2766 A^2 a^2 b^2 c^2 d^2 n^3 x^m e^{(m \log(e) + m \log(x))} + 2232 B^2 a^2 b^2 c^2 d^2 n^3 x^m e^{(m \log(e) + m \log(x))} + 1116 A^2 b^2 c^2 d^2 n^3 x^m e^{(m \log(e) + m \log(x))} + 921 B^2 b^2 c^2 d^2 n^3 x^m e^{(m \log(e) + m \log(x))} + 1383 A^2 a^2 c^2 d^2 n^3 x^m e^{(m \log(e) + m \log(x))} + 1116 B^2 a^2 c^2 d^2 n^3 x^m e^{(m \log(e) + m \log(x))} + 2232 A^2 a^2 b^2 c^2 d^2 n^3 x^m e^{(m \log(e) + m \log(x))} + 1842 B^2 a^2 b^2 c^2 d^2 n^3 x^m e^{(m \log(e) + m \log(x))} + 921 A^2 b^2 c^2 d^2 n^3 x^m e^{(m \log(e) + m \log(x))} + 780 B^2 b^2 c^2 d^2 n^3 x^m e^{(m \log(e) + m \log(x))} + 372 A^2 a^2 d^3 n^3 x^m e^{(m \log(e) + m \log(x))} + 307 B^2 a^2 d^3 n^3 x^m e^{(m \log(e) + m \log(x))} + 614 A^2 a^2 b^2 d^3 n^3 x^m e^{(m \log(e) + m \log(x))} + 520 B^2 a^2 b^2 d^3 n^3 x^m e^{(m \log(e) + m \log(x))} + 260 A^2 b^2 d^3 n^3 x^m e^{(m \log(e) + m \log(x))} + 225 B^2 b^2 d^3 n^3 x^m e^{(m \log(e) + m \log(x))} + 15 B^2 b^2 d^3 m^2 n^2 x^m x^{(6n)} e^{(m \log(e) + m \log(x))} + 75 B^2 b^2 d^3 m^2 n^2 x^m x^{(6n)} e^{(m \log(e) + m \log(x))} + 85 B^2 b^2 d^3 m^2 n^2 x^m x^{(6n)} e^{(m \log(e) + m \log(x))} + 45 B^2 b^2 c^2 d^2 m^2 n^2 x^m x^{(5n)} e^{(m \log(e) + m \log(x))} + 30 B^2 a^2 b^2 d^3 m^2 n^2 x^m x^{(5n)} e^{(m \log(e) + m \log(x))} + 15 A^2 b^2 d^3 m^2 n^2 x^m x^{(5n)} e^{(m \log(e) + m \log(x))} + 15 B^2 b^2 d^3 m^2 n^2 x^m x^{(5n)} e^{(m \log(e) + m \log(x))}$

$$\begin{aligned}
& ^{(m\log(e) + m\log(x)) + 160*B*a*b*d^3*m*n*x*x^{(3*n)}*e^{(m\log(e) + m\log(x))} \\
&) + 80*A*b^2*d^3*m*n*x*x^{(3*n)}*e^{(m\log(e) + m\log(x))} + 75*B*b^2*d^3*m*n*x \\
& *x^{(3*n)}*e^{(m\log(e) + m\log(x))} + 121*B*b^2*c^3*n^2*x*x^{(3*n)}*e^{(m\log(e) \\
& + m\log(x))} + 726*B*a*b*c^2*d*n^2*x*x^{(3*n)}*e^{(m\log(e) + m\log(x))} + 363*A \\
& *b^2*c^2*d*n^2*x*x^{(3*n)}*e^{(m\log(e) + m\log(x))} + 321*B*b^2*c^2*d*n^2*x*x^{(3*n)}*e^{(m\log(e) + m\log(x))} \\
& + 363*B*a^2*c*d^2*n^2*x*x^{(3*n)}*e^{(m\log(e) + m\log(x))} + 726*A*a*b*c*d^2*n^2*x*x^{(3*n)}*e^{(m\log(e) + m\log(x))} + 642*B* \\
& a*b*c*d^2*n^2*x*x^{(3*n)}*e^{(m\log(e) + m\log(x))} + 321*A*b^2*c*d^2*n^2*x*x^{(3*n)}*e^{(m\log(e) + m\log(x))} + 285*B*b^2*c*d^2*n^2*x*x^{(3*n)}*e^{(m\log(e) + m\log(x))} \\
& + 121*A*a^2*d^3*n^2*x*x^{(3*n)}*e^{(m\log(e) + m\log(x))} + 107*B*a^2 \\
& *d^3*n^2*x*x^{(3*n)}*e^{(m\log(e) + m\log(x))} + 214*A*a*b*d^3*n^2*x*x^{(3*n)}*e^{(m\log(e) + m\log(x))} \\
& + 190*B*a*b*d^3*n^2*x*x^{(3*n)}*e^{(m\log(e) + m\log(x))} + 95*A*b^2*d^3*n^2*x*x^{(3*n)}*e^{(m\log(e) + m\log(x))} + 85*B*b^2*d^3*n^2*x*x^{(3*n)}*e^{(m\log(e) + m\log(x))} \\
& + 30*B*a*b*c^3*m^2*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 15*A*b^2*c^3*m^2*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 15*B*b^2*c^3*m^2*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} \\
& + 45*B*a^2*c^2*d*m^2*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 90*A*a*b*c^2*d*m^2*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 90*B*a*b*c^2*d*m^2*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} \\
& + 45*A*b^2*c^2*d*m^2*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 45*B*b^2*c^2*d*m^2*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 45*A*a^2*c*d^2*m^2*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 45 \\
& *B*a^2*c*d^2*m^2*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 90*A*a*b*c*d^2*m^2*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 90*B*a*b*c*d^2*m^2*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 45*A*b^2*c*d^2*m^2*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 45*B*b^2*c*d^2*m^2*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 15*A*a^2*d^3*m^2*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} \\
& + 15*B*a^2*d^3*m^2*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 30*A*a*b*d^3*m^2*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 30*B*a*b*d^3*m^2*x \\
& *x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 15*A*b^2*d^3*m^2*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 15*B*b^2*d^3*m^2*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 190*B*a*b \\
& *c^3*m*n*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 95*A*b^2*c^3*m*n*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 90*B*b^2*c^3*m*n*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + \\
& 285*B*a^2*c^2*d*m*n*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 570*A*a*b*c^2*d*m \\
& n*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 540*B*a*b*c^2*d*m*n*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 270*A*b^2*c^2*d*m*n*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + \\
& 255*B*b^2*c^2*d*m*n*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 285*A*a^2*c*d^2*m*n \\
& *x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 270*B*a^2*c*d^2*m*n*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 5 \\
& 10*B*a*b*c*d^2*m*n*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 255*A*b^2*c*d^2*m*n \\
& *x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 240*B*b^2*c*d^2*m*n*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 90*A*a^2*d^3*m*n*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 85*B* \\
& a^2*d^3*m*n*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 170*A*a*b*d^3*m*n*x*x^{(2*n)} \\
& *e^{(m\log(e) + m\log(x))} + 160*B*a*b*d^3*m*n*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 80*A*b^2*d^3*m*n*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 75*B*b^2*d^3*m*n \\
& *x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 274*B*a*b*c^3*n^2*x*x^{(2*n)}*e^{(m\log(e) \\
&) + m\log(x))} + 137*A*b^2*c^3*n^2*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 121*B \\
& *b^2*c^3*n^2*x*x^{(2*n)}*e^{(m\log(e) + m\log(x))} + 411*B*a^2*c^2*d*n^2*x*x^{(2
\end{aligned}$$

$x)) + 137*A*b^2*c^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 121*B*b^2*c^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 465*A*a^2*c^2*d*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 411*B*a^2*c^2*d*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 822*A*a*b*c^2*d*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 726*B*a*b*c^2*d*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 363*A*b^2*c^2*d*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 321*B*b^2*c^2*d*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 411*A*a^2*c*d^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 363*B*a^2*c*d^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 726*A*a*b*c*d^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 642*B*a*b*c*d^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 321*A*b^2*c*d^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 285*B*b^2*c*d^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 121*A*a^2*d^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 107*B*a^2*d^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 214*A*a*b*d^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 190*B*a*b*d^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 95*A*b^2*d^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 85*B*b^2*d^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*A*a^2*c^3*m^2*x*e^{(m*\log(e) + m*\log(x))} + 15*B*a^2*c^3*m^2*x*e^{(m*\log(e) + m*\log(x))} + 30*A*a*b*c^3*m^2*x*e^{(m*\log(e) + m*\log(x))} + 30*B*a*b*c^3*m^2*x*e^{(m*\log(e) + m*\log(x))} + 15*A*b^2*c^3*m^2*x*e^{(m*\log(e) + m*\log(x))} + 15*B*b^2*c^3*m^2*x*e^{(m*\log(e) + m*\log(x))} + 45*A*a^2*c^2*d*m^2*x*e^{(m*\log(e) + m*\log(x))} + 45*B*a^2*c^2*d*m^2*x*e^{(m*\log(e) + m*\log(x))} + 90*A*a*b*c^2*d*m^2*x*e^{(m*\log(e) + m*\log(x))} + 90*B*a*b*c^2*d*m^2*x*e^{(m*\log(e) + m*\log(x))} + 45*A*b^2*c^2*d*m^2*x*e^{(m*\log(e) + m*\log(x))} + 45*B*b^2*c^2*d*m^2*x*e^{(m*\log(e) + m*\log(x))} + 45*A*a^2*c*d^2*m^2*x*e^{(m*\log(e) + m*\log(x))} + 45*B*a^2*c*d^2*m^2*x*e^{(m*\log(e) + m*\log(x))} + 90*A*a*b*c*d^2*m^2*x*e^{(m*\log(e) + m*\log(x))} + 90*B*a*b*c*d^2*m^2*x*e^{(m*\log(e) + m*\log(x))} + 45*A*b^2*c*d^2*m^2*x*e^{(m*\log(e) + m*\log(x))} + 45*B*b^2*c*d^2*m^2*x*e^{(m*\log(e) + m*\log(x))} + 15*A*a^2*d^3*m^2*x*e^{(m*\log(e) + m*\log(x))} + 15*B*a^2*d^3*m^2*x*e^{(m*\log(e) + m*\log(x))} + 30*A*a*b*d^3*m^2*x*e^{(m*\log(e) + m*\log(x))} + 30*B*a*b*d^3*m^2*x*e^{(m*\log(e) + m*\log(x))} + 15*A*b^2*d^3*m^2*x*e^{(m*\log(e) + m*\log(x))} + 15*B*b^2*d^3*m^2*x*e^{(m*\log(e) + m*\log(x))} + 105*A*a^2*c^3*m*n*x*e^{(m*\log(e) + m*\log(x))} + 100*B*a^2*c^3*m*n*x*e^{(m*\log(e) + m*\log(x))} + 200*A*a*b*c^3*m*n*x*e^{(m*\log(e) + m*\log(x))} + 190*B*a*b*c^3*m*n*x*e^{(m*\log(e) + m*\log(x))} + 95*A*b^2*c^3*m*n*x*e^{(m*\log(e) + m*\log(x))} + 90*B*b^2*c^3*m*n*x*e^{(m*\log(e) + m*\log(x))} + 300*A*a^2*c^2*d*m*n*x*e^{(m*\log(e) + m*\log(x))} + 285*B*a^2*c^2*d*m*n*x*e^{(m*\log(e) + m*\log(x))} + 570*A*a*b*c^2*d*m*n*x*e^{(m*\log(e) + m*\log(x))} + 540*B*a*b*c^2*d*m*n*x*e^{(m*\log(e) + m*\log(x))} + 270*A*b^2*c^2*d*m*n*x*e^{(m*\log(e) + m*\log(x))} + 255*B*b^2*c^2*d*m*n*x*e^{(m*\log(e) + m*\log(x))} + 285*A*a^2*c*d^2*m*n*x*e^{(m*\log(e) + m*\log(x))} + 270*B*a^2*c*d^2*m*n*x*e^{(m*\log(e) + m*\log(x))} + 540*A*a*b*c*d^2*m*n*x*e^{(m*\log(e) + m*\log(x))} + 510*B*a*b*c*d^2*m*n*x*e^{(m*\log(e) + m*\log(x))} + 255*A*b^2*c*d^2*m*n*x*e^{(m*\log(e) + m*\log(x))} + 240*B*b^2*c*d^2*m*n*x*e^{(m*\log(e) + m*\log(x))} + 90*A*a^2*d^3*m*n*x*e^{(m*\log(e) + m*\log(x))} + 85*B*a^2*d^3*m*n*x*e^{(m*\log(e) + m*\log(x))} + 170*A*a*b*d^3*m*n*x*e^{(m*\log(e) + m*\log(x))} + 160*B*a*b*d^3*m*n*x*e^{(m*\log(e) + m*\log(x))} + 80*A*b^2*d^3*m*n*x*e^{(m*\log(e) + m*\log(x))} + 75*B*b^2*d^3*m*n*x*e^{(m*\log(e) + m*\log(x))} + 175*A*a^2*c^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 155*B*a^2*c^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 310*A*a*b*c^3*n^2*x*e^{(m*\log($

$(x) + 51*B*b^2*c^2*d^n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 54*B*a^2*c*d^2*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 108*A*a*b*c*d^2*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 102*B*a*b*c*d^2*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 51*A*b^2*c*d^2*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 48*B*b^2*c*d^2*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 18*A*a^2*d^3*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 17*B*a^2*d^3*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 34*A*a*b*d^3*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 32*B*a*b*d^3*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 16*A*b^2*d^3*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 15*B*b^2*d^3*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 12*B*a*b*c^3*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 6*A*b^2*c^3*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 6*B*b^2*c^3*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 18*B*a^2*c^2*d*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 36*A*a*b*c^2*d*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 36*B*a*b*c^2*d*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 18*A*b^2*c^2*d*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 18*B*b^2*c^2*d*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 18*A*a^2*c*d^2*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 18*B*a^2*c*d^2*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 36*A*a*b*c*d^2*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 18*A*b^2*c*d^2*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 18*B*b^2*c*d^2*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 6*A*a^2*d^3*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 6*B*a^2*d^3*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 12*A*a*b*d^3*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 12*B*a*b*d^3*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 6*A*b^2*d^3*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 6*B*b^2*d^3*m*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 38*B*a*b*c^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 19*A*b^2*c^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 18*B*b^2*c^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 57*B*a^2*c^2*d*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 114*A*a*b*c^2*d*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 108*B*a*b*c^2*d*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 54*A*b^2*c^2*d*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 57*A*a^2*c*d^2*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 108*A*a*b*c*d^2*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 102*B*a*b*c*d^2*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 51*A*b^2*c*d^2*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 48*B*b^2*c*d^2*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 18*A*a^2*d^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 17*B*a^2*d^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 34*A*a*b*d^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 32*B*a*b*d^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 16*A*b^2*d^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 15*B*b^2*d^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 6*B*a^2*c^3*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 12*A*a*b*c^3*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 12*B*a*b*c^3*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 6*A*b^2*c^3*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 6*B*b^2*c^3*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 18*A*a^2*c^2*d*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 18*B*a^2*c^2*d*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 36*A*a*b*c^2*d*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 36*B*a*b*c^2*d*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 18*A*b^2*c^2*d*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 18*B*b^2*c^2*d*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 18*A*a^2*c*d^2*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 18*B*a^2*c*d^2*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 36*A*a*b*c*d^2*m*x*x^n*e^{(m*\log(e) + m*\log(x))} +$

$$\begin{aligned}
& m \log(x)) + 36B^*a^*b^*c^*d^2m^*x^*x^n e^{(m \log(e) + m \log(x))} + 18A^*b^2c^*d^2m^*x^*x^n e^{(m \log(e) + m \log(x))} + 18B^*b^2c^*d^2m^*x^*x^n e^{(m \log(e) + m \log(x))} + 6A^*a^2d^3m^*x^*x^n e^{(m \log(e) + m \log(x))} + 6B^*a^2d^3m^*x^*x^n e^{(m \log(e) + m \log(x))} + 12A^*a^*b^*d^3m^*x^*x^n e^{(m \log(e) + m \log(x))} + 12B^*a^*b^*d^3m^*x^*x^n e^{(m \log(e) + m \log(x))} + 6A^*b^2d^3m^*x^*x^n e^{(m \log(e) + m \log(x))} + 6B^*b^2d^3m^*x^*x^n e^{(m \log(e) + m \log(x))} + 20B^*a^2c^3n^*x^*x^n e^{(m \log(e) + m \log(x))} + 40A^*a^*b^*c^3n^*x^*x^n e^{(m \log(e) + m \log(x))} + 38B^*a^*b^*c^3n^*x^*x^n e^{(m \log(e) + m \log(x))} + 19A^*b^2c^3n^*x^*x^n e^{(m \log(e) + m \log(x))} + 18B^*b^2c^3n^*x^*x^n e^{(m \log(e) + m \log(x))} + 60A^*a^2c^2d^*n^*x^*x^n e^{(m \log(e) + m \log(x))} + 57B^*a^2c^2d^*n^*x^*x^n e^{(m \log(e) + m \log(x))} + 114A^*a^*b^*c^2d^*n^*x^*x^n e^{(m \log(e) + m \log(x))} + 108B^*a^*b^*c^2d^*n^*x^*x^n e^{(m \log(e) + m \log(x))} + 54A^*b^2c^2d^*n^*x^*x^n e^{(m \log(e) + m \log(x))} + 51B^*b^2c^2d^*n^*x^*x^n e^{(m \log(e) + m \log(x))} + 57A^*a^2c^2d^2n^*x^*x^n e^{(m \log(e) + m \log(x))} + 54B^*a^2c^2d^2n^*x^*x^n e^{(m \log(e) + m \log(x))} + 108A^*a^*b^*c^2d^2n^*x^*x^n e^{(m \log(e) + m \log(x))} + 102B^*a^*b^*c^2d^2n^*x^*x^n e^{(m \log(e) + m \log(x))} + 51A^*b^2c^2d^2n^*x^*x^n e^{(m \log(e) + m \log(x))} + 48B^*b^2c^2d^2n^*x^*x^n e^{(m \log(e) + m \log(x))} + 18A^*a^2d^3n^*x^*x^n e^{(m \log(e) + m \log(x))} + 17B^*a^2d^3n^*x^*x^n e^{(m \log(e) + m \log(x))} + 34A^*a^*b^*d^3n^*x^*x^n e^{(m \log(e) + m \log(x))} + 32B^*a^*b^*d^3n^*x^*x^n e^{(m \log(e) + m \log(x))} + 16A^*b^2d^3n^*x^*x^n e^{(m \log(e) + m \log(x))} + 15B^*b^2d^3n^*x^*x^n e^{(m \log(e) + m \log(x))} + 6A^*a^2c^3m^*x^*e^{(m \log(e) + m \log(x))} + 6B^*a^2c^3m^*x^*e^{(m \log(e) + m \log(x))} + 12A^*a^*b^*c^3m^*x^*e^{(m \log(e) + m \log(x))} + 12B^*a^*b^*c^3m^*x^*e^{(m \log(e) + m \log(x))} + 6A^*b^2c^3m^*x^*e^{(m \log(e) + m \log(x))} + 6B^*b^2c^3m^*x^*e^{(m \log(e) + m \log(x))} + 18A^*a^2c^2d^*m^*x^*e^{(m \log(e) + m \log(x))} + 18B^*a^2c^2d^*m^*x^*e^{(m \log(e) + m \log(x))} + 36A^*a^*b^*c^2d^*m^*x^*e^{(m \log(e) + m \log(x))} + 36B^*a^*b^*c^2d^*m^*x^*e^{(m \log(e) + m \log(x))} + 18A^*b^2c^2d^*m^*x^*e^{(m \log(e) + m \log(x))} + 18B^*b^2c^2d^*m^*x^*e^{(m \log(e) + m \log(x))} + 18A^*a^2c^2d^2m^*x^*e^{(m \log(e) + m \log(x))} + 18B^*a^2c^2d^2m^*x^*e^{(m \log(e) + m \log(x))} + 36A^*a^*b^*c^2d^2m^*x^*e^{(m \log(e) + m \log(x))} + 36B^*a^*b^*c^2d^2m^*x^*e^{(m \log(e) + m \log(x))} + 18A^*b^2c^2d^2m^*x^*e^{(m \log(e) + m \log(x))} + 18B^*b^2c^2d^2m^*x^*e^{(m \log(e) + m \log(x))} + 6A^*a^2d^3m^*x^*e^{(m \log(e) + m \log(x))} + 6B^*a^2d^3m^*x^*e^{(m \log(e) + m \log(x))} + 12A^*a^*b^*d^3m^*x^*e^{(m \log(e) + m \log(x))} + 12B^*a^*b^*d^3m^*x^*e^{(m \log(e) + m \log(x))} + 6A^*b^2d^3m^*x^*e^{(m \log(e) + m \log(x))} + 6B^*b^2d^3m^*x^*e^{(m \log(e) + m \log(x))} + 21A^*a^2c^3n^*x^*e^{(m \log(e) + m \log(x))} + 20B^*a^2c^3n^*x^*e^{(m \log(e) + m \log(x))} + 40A^*a^*b^*c^3n^*x^*e^{(m \log(e) + m \log(x))} + 38B^*a^*b^*c^3n^*x^*e^{(m \log(e) + m \log(x))} + 19A^*b^2c^3n^*x^*e^{(m \log(e) + m \log(x))} + 18B^*b^2c^3n^*x^*e^{(m \log(e) + m \log(x))} + 60A^*a^2c^2d^*n^*x^*e^{(m \log(e) + m \log(x))} + 57B^*a^2c^2d^*n^*x^*e^{(m \log(e) + m \log(x))} + 114A^*a^*b^*c^2d^*n^*x^*e^{(m \log(e) + m \log(x))} + 108B^*a^*b^*c^2d^*n^*x^*e^{(m \log(e) + m \log(x))} + 54A^*b^2c^2d^*n^*x^*e^{(m \log(e) + m \log(x))} + 51B^*b^2c^2d^*n^*x^*e^{(m \log(e) + m \log(x))} + 57A^*a^2c^2d^2n^*x^*e^{(m \log(e) + m \log(x))} + 54B^*a^2c^2d^2n^*x^*e^{(m \log(e) + m \log(x))} + 108A^*a^*b^*c^2d^2n^*x^*e^{(m \log(e) + m \log(x))} + 102B^*a^*b^*c^2d^2n^*x^*e^{(m \log(e) + m \log(x))} + 51A^*b^2c^2d^2n^*x^*e^{(m \log(e) + m \log(x))} + 48B^*b^2c^2d^2n^*x^*e^{(m \log(e) + m \log(x))} +
\end{aligned}$$


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*d^2*x*x^n*e^(m*log(e) + m*log(x)) + A*a^2*d^3*x*x^n*e^(m*log(e) + m*log(x)
) + B*a^2*d^3*x*x^n*e^(m*log(e) + m*log(x)) + 2*A*a*b*d^3*x*x^n*e^(m*log(e)
+ m*log(x)) + 2*B*a*b*d^3*x*x^n*e^(m*log(e) + m*log(x)) + A*b^2*d^3*x*x^n*
e^(m*log(e) + m*log(x)) + B*b^2*d^3*x*x^n*e^(m*log(e) + m*log(x)) + A*a^2*c
^3*x*x*e^(m*log(e) + m*log(x)) + B*a^2*c^3*x*x*e^(m*log(e) + m*log(x)) + 2*A*a*
b*c^3*x*x*e^(m*log(e) + m*log(x)) + 2*B*a*b*c^3*x*x*e^(m*log(e) + m*log(x)) + A
*b^2*c^3*x*x*e^(m*log(e) + m*log(x)) + B*b^2*c^3*x*x*e^(m*log(e) + m*log(x)) +
3*A*a^2*c^2*d*x*x*e^(m*log(e) + m*log(x)) + 3*B*a^2*c^2*d*x*x*e^(m*log(e) + m*l
og(x)) + 6*A*a*b*c^2*d*x*x*e^(m*log(e) + m*log(x)) + 6*B*a*b*c^2*d*x*x*e^(m*log
(e) + m*log(x)) + 3*A*b^2*c^2*d*x*x*e^(m*log(e) + m*log(x)) + 3*B*b^2*c^2*d*x
*x*e^(m*log(e) + m*log(x)) + 3*A*a^2*c*d^2*x*x*e^(m*log(e) + m*log(x)) + 3*B*a^
2*c*d^2*x*x*e^(m*log(e) + m*log(x)) + 6*A*a*b*c*d^2*x*x*e^(m*log(e) + m*log(x))
+ 6*B*a*b*c*d^2*x*x*e^(m*log(e) + m*log(x)) + 3*A*b^2*c*d^2*x*x*e^(m*log(e) +
m*log(x)) + 3*B*b^2*c*d^2*x*x*e^(m*log(e) + m*log(x)) + A*a^2*d^3*x*x*e^(m*log(
e) + m*log(x)) + B*a^2*d^3*x*x*e^(m*log(e) + m*log(x)) + 2*A*a*b*d^3*x*x*e^(m*l
og(e) + m*log(x)) + 2*B*a*b*d^3*x*x*e^(m*log(e) + m*log(x)) + A*b^2*d^3*x*x*e^(
m*log(e) + m*log(x)) + B*b^2*d^3*x*x*e^(m*log(e) + m*log(x)))/(m^7 + 21*m^6*n
+ 175*m^5*n^2 + 735*m^4*n^3 + 1624*m^3*n^4 + 1764*m^2*n^5 + 720*m*n^6 + 7*
m^6 + 126*m^5*n + 875*m^4*n^2 + 2940*m^3*n^3 + 4872*m^2*n^4 + 3528*m*n^5 +
720*n^6 + 21*m^5 + 315*m^4*n + 1750*m^3*n^2 + 4410*m^2*n^3 + 4872*m*n^4 + 1
764*n^5 + 35*m^4 + 420*m^3*n + 1750*m^2*n^2 + 2940*m*n^3 + 1624*n^4 + 35*m^
3 + 315*m^2*n + 875*m*n^2 + 735*n^3 + 21*m^2 + 126*m*n + 175*n^2 + 7*m + 21
*n + 1)

```

Mupad [B] (verification not implemented)

Time = 10.84 (sec) , antiderivative size = 1882, normalized size of antiderivative = 6.07

$$\int (ex)^m (a + bx^n)^2 (A + Bx^n) (c + dx^n)^3 dx = \text{Too large to display}$$

[In] int((e*x)^m*(A + B*x^n)*(a + b*x^n)^2*(c + d*x^n)^3,x)

```

[Out] (x*x^(3*n)*(e*x)^m*(A*a^2*d^3 + B*b^2*c^3 + 3*A*b^2*c^2*d + 3*B*a^2*c*d^2 +
6*A*a*b*c*d^2 + 6*B*a*b*c^2*d)*(5*m + 18*n + 72*m*n + 363*m*n^2 + 108*m^2*n
n + 744*m*n^3 + 72*m^3*n + 508*m*n^4 + 18*m^4*n + 10*m^2 + 10*m^3 + 5*m^4 +
m^5 + 121*n^2 + 372*n^3 + 508*n^4 + 240*n^5 + 363*m^2*n^2 + 372*m^2*n^3 +
121*m^3*n^2 + 1))/(6*m + 21*n + 105*m*n + 700*m*n^2 + 210*m^2*n + 2205*m*n^
3 + 210*m^3*n + 3248*m*n^4 + 105*m^4*n + 1764*m*n^5 + 21*m^5*n + 15*m^2 + 2
0*m^3 + 15*m^4 + 6*m^5 + m^6 + 175*n^2 + 735*n^3 + 1624*n^4 + 1764*n^5 + 72
0*n^6 + 1050*m^2*n^2 + 2205*m^2*n^3 + 700*m^3*n^2 + 1624*m^2*n^4 + 735*m^3*
n^3 + 175*m^4*n^2 + 1) + (A*a^2*c^3*x*(e*x)^m)/(m + 1) + (c*x*x^(2*n)*(e*x)
^m*(3*A*a^2*d^2 + A*b^2*c^2 + 2*B*a*b*c^2 + 3*B*a^2*c*d + 6*A*a*b*c*d)*(5*m
+ 19*n + 76*m*n + 411*m*n^2 + 114*m^2*n + 922*m*n^3 + 76*m^3*n + 702*m*n^4
+ 19*m^4*n + 10*m^2 + 10*m^3 + 5*m^4 + m^5 + 137*n^2 + 461*n^3 + 702*n^4 +

```

$$\begin{aligned}
& (360*n^5 + 411*m^2*n^2 + 461*m^2*n^3 + 137*m^3*n^2 + 1) / (6*m + 21*n + 105* \\
& m*n + 700*m*n^2 + 210*m^2*n + 2205*m*n^3 + 210*m^3*n + 3248*m*n^4 + 105*m^4 \\
& *n + 1764*m*n^5 + 21*m^5*n + 15*m^2 + 20*m^3 + 15*m^4 + 6*m^5 + m^6 + 175*n \\
& ^2 + 735*n^3 + 1624*n^4 + 1764*n^5 + 720*n^6 + 1050*m^2*n^2 + 2205*m^2*n^3 \\
& + 700*m^3*n^2 + 1624*m^2*n^4 + 735*m^3*n^3 + 175*m^4*n^2 + 1) + (d*x*x^(4*n) \\
&)*(e*x)^m*(B*a^2*d^2 + 3*B*b^2*c^2 + 2*A*a*b*d^2 + 3*A*b^2*c*d + 6*B*a*b*c* \\
& d)*(5*m + 17*n + 68*m*n + 321*m*n^2 + 102*m^2*n + 614*m*n^3 + 68*m^3*n + 39 \\
& 6*m*n^4 + 17*m^4*n + 10*m^2 + 10*m^3 + 5*m^4 + m^5 + 107*n^2 + 307*n^3 + 39 \\
& 6*n^4 + 180*n^5 + 321*m^2*n^2 + 307*m^2*n^3 + 107*m^3*n^2 + 1) / (6*m + 21*n \\
& + 105*m*n + 700*m*n^2 + 210*m^2*n + 2205*m*n^3 + 210*m^3*n + 3248*m*n^4 + \\
& 105*m^4*n + 1764*m*n^5 + 21*m^5*n + 15*m^2 + 20*m^3 + 15*m^4 + 6*m^5 + m^6 \\
& + 175*n^2 + 735*n^3 + 1624*n^4 + 1764*n^5 + 720*n^6 + 1050*m^2*n^2 + 2205*m \\
& ^2*n^3 + 700*m^3*n^2 + 1624*m^2*n^4 + 735*m^3*n^3 + 175*m^4*n^2 + 1) + (a*c \\
& ^2*x*x^n*(e*x)^m*(3*A*a*d + 2*A*b*c + B*a*c)*(5*m + 20*n + 80*m*n + 465*m*n \\
& ^2 + 120*m^2*n + 1160*m*n^3 + 80*m^3*n + 1044*m*n^4 + 20*m^4*n + 10*m^2 + 1 \\
& 0*m^3 + 5*m^4 + m^5 + 155*n^2 + 580*n^3 + 1044*n^4 + 720*n^5 + 465*m^2*n^2 \\
& + 580*m^2*n^3 + 155*m^3*n^2 + 1) / (6*m + 21*n + 105*m*n + 700*m*n^2 + 210*m \\
& ^2*n + 2205*m*n^3 + 210*m^3*n + 3248*m*n^4 + 105*m^4*n + 1764*m*n^5 + 21*m^ \\
& 5*n + 15*m^2 + 20*m^3 + 15*m^4 + 6*m^5 + m^6 + 175*n^2 + 735*n^3 + 1624*n^4 \\
& + 1764*n^5 + 720*n^6 + 1050*m^2*n^2 + 2205*m^2*n^3 + 700*m^3*n^2 + 1624*m^ \\
& 2*n^4 + 735*m^3*n^3 + 175*m^4*n^2 + 1) + (b*d^2*x*x^(5*n))*(e*x)^m*(A*b*d + \\
& 2*B*a*d + 3*B*b*c)*(5*m + 16*n + 64*m*n + 285*m*n^2 + 96*m^2*n + 520*m*n^3 \\
& + 64*m^3*n + 324*m*n^4 + 16*m^4*n + 10*m^2 + 10*m^3 + 5*m^4 + m^5 + 95*n^2 \\
& + 260*n^3 + 324*n^4 + 144*n^5 + 285*m^2*n^2 + 260*m^2*n^3 + 95*m^3*n^2 + 1) \\
&) / (6*m + 21*n + 105*m*n + 700*m*n^2 + 210*m^2*n + 2205*m*n^3 + 210*m^3*n + \\
& 3248*m*n^4 + 105*m^4*n + 1764*m*n^5 + 21*m^5*n + 15*m^2 + 20*m^3 + 15*m^4 + \\
& 6*m^5 + m^6 + 175*n^2 + 735*n^3 + 1624*n^4 + 1764*n^5 + 720*n^6 + 1050*m^2 \\
& *n^2 + 2205*m^2*n^3 + 700*m^3*n^2 + 1624*m^2*n^4 + 735*m^3*n^3 + 175*m^4*n^ \\
& 2 + 1) + (B*b^2*d^3*x*x^(6*n))*(e*x)^m*(5*m + 15*n + 60*m*n + 255*m*n^2 + 90 \\
& *m^2*n + 450*m*n^3 + 60*m^3*n + 274*m*n^4 + 15*m^4*n + 10*m^2 + 10*m^3 + 5* \\
& m^4 + m^5 + 85*n^2 + 225*n^3 + 274*n^4 + 120*n^5 + 255*m^2*n^2 + 225*m^2*n^ \\
& 3 + 85*m^3*n^2 + 1) / (6*m + 21*n + 105*m*n + 700*m*n^2 + 210*m^2*n + 2205*m \\
& *n^3 + 210*m^3*n + 3248*m*n^4 + 105*m^4*n + 1764*m*n^5 + 21*m^5*n + 15*m^2 \\
& + 20*m^3 + 15*m^4 + 6*m^5 + m^6 + 175*n^2 + 735*n^3 + 1624*n^4 + 1764*n^5 + \\
& 720*n^6 + 1050*m^2*n^2 + 2205*m^2*n^3 + 700*m^3*n^2 + 1624*m^2*n^4 + 735*m \\
& ^3*n^3 + 175*m^4*n^2 + 1)
\end{aligned}$$

3.17 $\int (ex)^m (a + bx^n) (A + Bx^n) (c + dx^n)^3 dx$

Optimal result	894
Rubi [A] (verified)	894
Mathematica [A] (verified)	896
Maple [C] (warning: unable to verify)	897
Fricas [B] (verification not implemented)	899
Sympy [B] (verification not implemented)	901
Maxima [B] (verification not implemented)	937
Giac [B] (verification not implemented)	938
Mupad [B] (verification not implemented)	955

Optimal result

Integrand size = 29, antiderivative size = 210

$$\begin{aligned} & \int (ex)^m (a + bx^n) (A + Bx^n) (c + dx^n)^3 dx \\ &= \frac{c^2(ABC + aBc + 3aAd)x^{1+n}(ex)^m}{1+m+n} + \frac{c(3ad(Bc + Ad) + bc(Bc + 3Ad))x^{1+2n}(ex)^m}{1+m+2n} \\ &+ \frac{d(3bc(Bc + Ad) + ad(3Bc + Ad))x^{1+3n}(ex)^m}{1+m+3n} \\ &+ \frac{d^2(3bBc + Abd + aBd)x^{1+4n}(ex)^m}{1+m+4n} + \frac{bBd^3x^{1+5n}(ex)^m}{1+m+5n} + \frac{aAc^3(ex)^{1+m}}{e(1+m)} \end{aligned}$$

[Out] $c^2*(3*A*a*d+A*b*c+B*a*c)*x^{(1+n)}*(e*x)^m/(1+m+n)+c*(3*a*d*(A*d+B*c)+b*c*(3*A*d+B*c))*x^{(1+2*n)}*(e*x)^m/(1+m+2*n)+d*(3*b*c*(A*d+B*c)+a*d*(A*d+3*B*c))*x^{(1+3*n)}*(e*x)^m/(1+m+3*n)+d^2*(A*b*d+B*a*d+3*B*b*c)*x^{(1+4*n)}*(e*x)^m/(1+m+4*n)+b*B*d^3*x^{(1+5*n)}*(e*x)^m/(1+m+5*n)+a*A*c^3*(e*x)^{(1+m)}/e/(1+m)$

Rubi [A] (verified)

Time = 0.17 (sec) , antiderivative size = 210, normalized size of antiderivative = 1.00, number of steps used = 12, number of rules used = 3, $\frac{\text{number of rules}}{\text{integrand size}} = 0.103$, Rules used = {584, 20, 30}

$$\begin{aligned} & \int (ex)^m (a + bx^n) (A + Bx^n) (c + dx^n)^3 dx \\ &= \frac{c^2x^{n+1}(ex)^m(3aAd + aBc + Abc)}{m+n+1} + \frac{d^2x^{4n+1}(ex)^m(aBd + Abd + 3bBc)}{m+4n+1} \\ &+ \frac{cx^{2n+1}(ex)^m(3ad(Ad + Bc) + bc(3Ad + Bc))}{m+2n+1} \\ &+ \frac{dx^{3n+1}(ex)^m(ad(Ad + 3Bc) + 3bc(Ad + Bc))}{m+3n+1} + \frac{aAc^3(ex)^{m+1}}{e(m+1)} + \frac{bBd^3x^{5n+1}(ex)^m}{m+5n+1} \end{aligned}$$

[In] Int[(e*x)^m*(a + b*x^n)*(A + B*x^n)*(c + d*x^n)^3,x]

[Out] (c^2*(A*b*c + a*B*c + 3*a*A*d)*x^(1 + n)*(e*x)^m)/(1 + m + n) + (c*(3*a*d*(B*c + A*d) + b*c*(B*c + 3*A*d))*x^(1 + 2*n)*(e*x)^m)/(1 + m + 2*n) + (d*(3*b*c*(B*c + A*d) + a*d*(3*B*c + A*d))*x^(1 + 3*n)*(e*x)^m)/(1 + m + 3*n) + (d^2*(3*b*B*c + A*b*d + a*B*d)*x^(1 + 4*n)*(e*x)^m)/(1 + m + 4*n) + (b*B*d^3*x^(1 + 5*n)*(e*x)^m)/(1 + m + 5*n) + (a*A*c^3*(e*x)^(1 + m))/(e*(1 + m))

Rule 20

Int[(u_)*((a_)*(v_))^(m_)*((b_)*(v_))^(n_), x_Symbol] := Dist[b^IntPart[n]*((b*v)^FracPart[n]/(a^IntPart[n]*(a*v)^FracPart[n])), Int[u*(a*v)^(m + n), x], x] /; FreeQ[{a, b, m, n}, x] && !IntegerQ[m] && !IntegerQ[n] && !IntegerQ[m + n]

Rule 30

Int[(x_)^(m_), x_Symbol] := Simp[x^(m + 1)/(m + 1), x] /; FreeQ[m, x] && NeQ[m, -1]

Rule 584

Int[((g_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_)*((e_) + (f_)*(x_)^(n_))^(r_), x_Symbol] := Int[ExpandIntegrand[(g*x)^m*(a + b*x^n)^p*(c + d*x^n)^q*(e + f*x^n)^r, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n}, x] && IGtQ[p, -2] && IGtQ[q, 0] && IGtQ[r, 0]

Rubi steps

$$\begin{aligned} \text{integral} &= \int (aAc^3(ex)^m + c^2(ABC + aBc + 3aAd)x^n(ex)^m \\ &\quad + c(3ad(Bc + Ad) + bc(Bc + 3Ad))x^{2n}(ex)^m \\ &\quad + d(3bc(Bc + Ad) + ad(3Bc + Ad))x^{3n}(ex)^m + d^2(3bBc + Abd + aBd)x^{4n}(ex)^m \\ &\quad + bBd^3x^{5n}(ex)^m) dx \\ &= \frac{aAc^3(ex)^{1+m}}{e(1+m)} + (bBd^3) \int x^{5n}(ex)^m dx + (c^2(ABC + aBc + 3aAd)) \int x^n(ex)^m dx \\ &\quad + (d^2(3bBc + Abd + aBd)) \int x^{4n}(ex)^m dx \\ &\quad + (d(3bc(Bc + Ad) + ad(3Bc + Ad))) \int x^{3n}(ex)^m dx \\ &\quad + (c(3ad(Bc + Ad) + bc(Bc + 3Ad))) \int x^{2n}(ex)^m dx \end{aligned}$$

$$\begin{aligned}
&= \frac{aAc^3(ex)^{1+m}}{e(1+m)} + (bBd^3x^{-m}(ex)^m) \int x^{m+5n} dx \\
&\quad + (c^2(abc + aBc + 3aAd)x^{-m}(ex)^m) \int x^{m+n} dx \\
&\quad + (d^2(3bBc + Abd + aBd)x^{-m}(ex)^m) \int x^{m+4n} dx \\
&\quad + (d(3bc(Bc + Ad) + ad(3Bc + Ad))x^{-m}(ex)^m) \int x^{m+3n} dx \\
&\quad + (c(3ad(Bc + Ad) + bc(Bc + 3Ad))x^{-m}(ex)^m) \int x^{m+2n} dx \\
&= \frac{c^2(abc + aBc + 3aAd)x^{1+n}(ex)^m}{1+m+n} + \frac{c(3ad(Bc + Ad) + bc(Bc + 3Ad))x^{1+2n}(ex)^m}{1+m+2n} \\
&\quad + \frac{d(3bc(Bc + Ad) + ad(3Bc + Ad))x^{1+3n}(ex)^m}{1+m+3n} \\
&\quad + \frac{d^2(3bBc + Abd + aBd)x^{1+4n}(ex)^m}{1+m+4n} + \frac{bBd^3x^{1+5n}(ex)^m}{1+m+5n} + \frac{aAc^3(ex)^{1+m}}{e(1+m)}
\end{aligned}$$

Mathematica [A] (verified)

Time = 0.83 (sec) , antiderivative size = 172, normalized size of antiderivative = 0.82

$$\int (ex)^m (a + bx^n) (A + Bx^n) (c + dx^n)^3 dx = x(ex)^m \left(\frac{aAc^3}{1+m} + \frac{c^2(abc + aBc + 3aAd)x^n}{1+m+n} \right. \\
+ \frac{c(3ad(Bc + Ad) + bc(Bc + 3Ad))x^{2n}}{1+m+2n} \\
+ \frac{d(3bc(Bc + Ad) + ad(3Bc + Ad))x^{3n}}{1+m+3n} \\
\left. + \frac{d^2(3bBc + Abd + aBd)x^{4n}}{1+m+4n} + \frac{bBd^3x^{5n}}{1+m+5n} \right)$$

[In] Integrate[(e*x)^m*(a + b*x^n)*(A + B*x^n)*(c + d*x^n)^3,x]

[Out] x*(e*x)^m*((a*A*c^3)/(1+m) + (c^2*(A*b*c + a*B*c + 3*a*A*d)*x^n)/(1+m+n) + (c*(3*a*d*(B*c + A*d) + b*c*(B*c + 3*A*d))*x^(2*n))/(1+m+2*n) + (d*(3*b*c*(B*c + A*d) + a*d*(3*B*c + A*d))*x^(3*n))/(1+m+3*n) + (d^2*(3*b*B*c + A*b*d + a*B*d)*x^(4*n))/(1+m+4*n) + (b*B*d^3*x^(5*n))/(1+m+5*n))

Maple [C] (warning: unable to verify)

Result contains higher order function than in optimal. Order 9 vs. order 3.

Time = 3.27 (sec) , antiderivative size = 4939, normalized size of antiderivative = 23.52

method	result	size
risch	Expression too large to display	4939
parallelrisc	Expression too large to display	6818

[In] $\text{int}((e*x)^m*(a+b*x^n)*(A+B*x^n)*(c+d*x^n)^3,x,\text{method}=_RETURNVERBOSE)$

[Out] $x*(B*a*c^3*m^5*x^n+10*B*a*d^3*m^2*(x^n)^4+41*B*a*d^3*m^2*(x^n)^4+5*B*b*c^3*m^4*(x^n)^2+60*B*b*c^3*n^4*(x^n)^2+468*B*a*c*d^2*m*n^3*(x^n)^3+180*B*a*c^2*d*m*n^4*(x^n)^2+531*A*a*c*d^2*m*n^2*(x^n)^2+639*A*a*c^2*d*m*n^2*x^n+639*A*a*c^2*d*m^2*n^2*x^n+36*B*a*c*d^2*m^4*n*(x^n)^3+147*B*a*c*d^2*m^3*n^2*(x^n)^3+234*B*a*c*d^2*m^2*n^3*(x^n)^3+120*B*a*c*d^2*m*n^4*(x^n)^3+36*B*b*c^2*d*m^4*n*(x^n)^3+180*A*b*c^2*d*m*n^4*(x^n)^2+144*A*b*c*d^2*m^3*n*(x^n)^3+120*B*b*c^2*d*m*n^4*(x^n)^3+66*A*b*d^3*m^2*n*(x^n)^4+123*A*b*d^3*m^2*(x^n)^4+360*A*a*c^2*d*m*n^4*x^n+156*A*a*c*d^2*m^3*n*(x^n)^2+531*A*a*c*d^2*m^2*n^2*(x^n)^2+30*A*a*c^2*d*m^2*x^n+213*A*a*c^2*d*n^2*x^n+15*A*a*c*d^2*(x^n)^2*m+72*A*a*d^3*m^2*n*(x^n)^3+147*A*a*d^3*m*n^2*(x^n)^3+41*A*b*d^3*m^3*n^2*(x^n)^4+15*A*a*c^3*n+11*A*b*d^3*m^4*n*(x^n)^4+30*B*b*c^2*d*m^3*(x^n)^3+5*A*a*c^3*m+A*a*c^3+120*B*a*c*d^2*n^4*(x^n)^3+66*B*a*d^3*m^2*n*(x^n)^4+123*B*a*d^3*m*n^2*(x^n)^4+13*B*b*c^3*m^4*n*(x^n)^2+59*B*b*c^3*m^3*n^2*(x^n)^2+30*B*a*c^2*d*m^2*(x^n)^2+177*B*a*c^2*d*n^2*(x^n)^2+15*B*a*c*d^2*(x^n)^3*m+36*B*a*c*d^2*(x^n)^3*n+52*B*b*c^3*m*n*(x^n)^2+15*B*b*c^2*d*(x^n)^3*m+36*B*b*c^2*d*(x^n)^3*n+39*B*a*c^2*d*m^4*n*(x^n)^2+177*B*a*c^2*d*m^3*n^2*(x^n)^2+120*A*b*c*d^2*m*n^4*(x^n)^3+441*B*b*c^2*d*m*n^2*(x^n)^3+132*B*b*c*d^2*m*n*(x^n)^4+168*A*a*c^2*d*m^3*n*x^n+369*B*b*c*d^2*m*n^2*(x^n)^4+144*B*b*c^2*d*m*n*(x^n)^3+252*A*a*c^2*d*m^2*n*x^n+441*A*b*c*d^2*m*n^2*(x^n)^3+156*B*a*c^2*d*m^3*n*(x^n)^2+531*B*a*c^2*d*m^2*n^2*(x^n)^2+5*B*a*d^3*m^4*(x^n)^4+30*B*a*d^3*n^4*(x^n)^4+3*(x^n)^3*A*b*c*d^2+3*(x^n)^3*B*a*c*d^2+3*(x^n)^3*B*b*c^2*d+3*(x^n)^2*A*a*c*d^2+132*B*b*c*d^2*m^3*n*(x^n)^4+369*B*b*c*d^2*m^2*n^2*(x^n)^4+147*B*b*c^2*d*m^3*n^2*(x^n)^3+144*B*a*c*d^2*m*n*(x^n)^3+531*B*a*c^2*d*m*n^2*(x^n)^2+156*A*a*c*d^2*m*n*(x^n)^2+39*A*a*c*d^2*m^4*n*(x^n)^2+90*B*b*c*d^2*m*n^4*(x^n)^4+36*A*b*c*d^2*m^4*n*(x^n)^3+147*A*b*c*d^2*m^3*n^2*(x^n)^3+531*A*b*c^2*d*m*n^2*(x^n)^2+42*A*a*c^2*d*m^4*n*x^n+234*A*b*c^2*d*m^2*n*(x^n)^2+234*B*a*c^2*d*m^2*n*(x^n)^2+642*A*a*c*d^2*m*n^3*(x^n)^2+33*B*b*c*d^2*m^4*n*(x^n)^4+123*B*b*c*d^2*m^3*n^2*(x^n)^4+183*B*b*c*d^2*m^2*n^3*(x^n)^4+234*B*b*c^2*d*m^2*n^3*(x^n)^3+12*A*a*d^3*(x^n)^3*n+10*A*b*c^3*m^3*x^n+10*B*b*d^3*m^3*(x^n)^5+50*B*b*d^3*n^3*(x^n)^5+5*A*a*d^3*m^4*(x^n)^3+40*A*a*d^3*n^4*(x^n)^3+5*A*b*c^3*m^4*x^n+120*A*b*c^3*n^4*x^n+5*A*b*d^3*(x^n)^4*m+11*A*b*d^3*(x^n)^4*n+5*B*a*c^3*m^4*x^n+120*B*a*c^3*n^4*x^n+642*A*b*c^2*d*m*n^3*(x^n)^2+216*A*b*c*d^2*m^2*n*(x^n)^3+234*A*b*c*d^2*m^2*n^3*(x^n)^3+468*B*b*c^2*d*m*n^3*(x^n)^3+198*B*b*c*d^2*m^2*n*(x^n)^4+B*a*c^3*x^n+441*B*b*c^2*d*m^2*n^2*(x^n)^3+156*A*b*c^$

$$\begin{aligned}
& 2*d^3*n*(x^n)^2+531*A*b*c^2*d^2*n^2*(x^n)^2+321*B*a*c^2*d^2*n^3*(x^n)^2+168*A*a*c^2*d^2*n*x^n+144*B*b*c^2*d^2*n^3*(x^n)^3+B*a*d^3*(x^n)^4+A*a*d^3*(x^n)^3+642*B*a*c^2*d^2*n^3*(x^n)^2+441*B*a*c*d^2*m*n^2*(x^n)^3+216*B*b*c^2*d^2*n*(x^n)^3+216*B*a*c*d^2*m^2*n*(x^n)^3+156*A*b*c^2*d^2*m*n*(x^n)^2+156*B*a*c^2*d^2*m*n*(x^n)^2+366*B*b*c*d^2*m*n^3*(x^n)^4+213*A*a*c^2*d^2*m^3*n^2*x^n+462*A*a*c^2*d^2*m^2*n^3*x^n+15*A*a*c^2*d^2*m^4*x^n+360*A*a*c^2*d^2*n^4*x^n+177*A*a*c*d^2*m^3*n^2*(x^n)^2+321*A*a*c*d^2*m^2*n^3*(x^n)^2+180*A*a*c*d^2*m*n^4*(x^n)^2+39*A*b*c^2*d^2*m^4*n*(x^n)^2+177*A*b*c^2*d^2*m^3*n^2*(x^n)^2+441*A*b*c*d^2*m^2*n^2*(x^n)^3+468*A*b*c*d^2*m*n^3*(x^n)^3+5*A*a*d^3*(x^n)^3+m+60*A*a*c^3*m^3*n+255*A*a*c^3*m^2*n^2+450*A*a*c^3*m*n^3+144*A*b*c*d^2*m*n*(x^n)^3+A*b*d^3*m^5*(x^n)^4+924*A*a*c^2*d^2*m*n^3*x^n+234*A*a*c*d^2*m^2*n*(x^n)^2+321*A*b*c^2*d^2*m^2*n^3*(x^n)^2+144*B*a*c*d^2*m^3*n*(x^n)^3+441*B*a*c*d^2*m^2*n^2*(x^n)^3+30*B*a*c*d^2*m^3*(x^n)^3+234*B*a*c*d^2*n^3*(x^n)^3+180*A*b*c^2*d^2*n^4*(x^n)^2+30*A*b*c*d^2*m^3*(x^n)^3+183*B*b*c*d^2*n^3*(x^n)^4+40*B*b*d^3*m*n*(x^n)^5+308*A*b*c^3*m*n^3*x^n+39*B*a*c^2*d*(x^n)^2*n+39*A*a*c*d^2*(x^n)^2*n+56*A*b*c^3*m*n*x^n+15*A*b*c^2*d*(x^n)^2*m+39*A*b*c^2*d*(x^n)^2*n+56*B*a*c^3*m*n*x^n+15*B*a*c^2*d*(x^n)^2*m+44*B*a*d^3*m^3*n*(x^n)^4+123*B*a*d^3*m^2*n^2*(x^n)^4+122*B*a*d^3*m*n^3*(x^n)^4+3*B*b*c^2*d^2*m^5*(x^n)^3+15*B*b*c*d^2*m^4*(x^n)^4+90*B*b*c*d^2*n^4*(x^n)^4+321*A*b*c^2*d^2*n^3*(x^n)^2+15*A*a*c^2*d*x^n*m+42*A*a*c^2*d*x^n*n+3*A*b*c*d^2*m^5*(x^n)^3+44*A*b*d^3*m^3*n*(x^n)^4+123*A*b*d^3*m^2*n^2*(x^n)^4+462*A*a*c^2*d^2*n^3*x^n+30*A*a*c*d^2*m^2*(x^n)^2+177*A*a*c*d^2*n^2*(x^n)^2+84*A*b*c^3*m^2*n*x^n+14*B*a*c^3*m^4*n*x^n+71*B*a*c^3*m^3*n^2*x^n+30*A*b*c^2*d^2*m^3*(x^n)^2+30*B*a*d^3*m*n^4*(x^n)^4+3*B*b*c*d^2*m^5*(x^n)^4+40*B*b*d^3*m^3*n*(x^n)^5+105*B*b*d^3*m^2*n^2*(x^n)^5+100*B*b*d^3*m*n^3*(x^n)^5+12*A*a*d^3*m^4*n*(x^n)^3+49*A*a*d^3*m^3*n^2*(x^n)^3+78*A*a*d^3*m^2*n^3*(x^n)^3+40*A*a*d^3*m*n^4*(x^n)^3+105*B*b*d^3*m*n^2*(x^n)^5+3*A*a*c*d^2*m^5*(x^n)^2+48*A*a*d^3*m^3*n*(x^n)^3+3*B*a*c^2*d^2*m^5*(x^n)^2+15*B*a*c*d^2*m^4*(x^n)^3+154*B*a*c^3*m^2*n^3*x^n+120*B*a*c^3*m*n^4*x^n+15*B*a*c^2*d^2*m^4*(x^n)^2+60*B*b*d^3*m^2*n*(x^n)^5+10*A*a*c^3*m^2+85*A*a*c^3*n^2+b*B*d^3*(x^n)^5+A*b*d^3*(x^n)^4+5*B*a*d^3*(x^n)^4*m+11*B*a*d^3*(x^n)^4*n+B*b*c^3*(x^n)^2+A*b*c^3*x^n+156*A*a*d^3*m*n^3*(x^n)^3+3*A*b*c^2*d^2*m^5*(x^n)^2+15*A*b*c*d^2*m^4*(x^n)^3+120*A*b*c*d^2*n^4*(x^n)^3+5*B*b*c^3*(x^n)^2*m+13*B*b*c^3*(x^n)^2*n+234*B*b*c^2*d^2*n^3*(x^n)^3+15*A*b*c*d^2*(x^n)^3*m+213*A*b*c^3*m*n^2*x^n+30*A*b*c^2*d^2*m^2*(x^n)^2+177*A*b*c^2*d^2*n^2*(x^n)^2+61*A*b*d^3*m^2*n^3*(x^n)^4+122*A*b*d^3*m*n^3*(x^n)^4+3*B*a*c*d^2*m^5*(x^n)^3+78*A*a*d^3*n^3*(x^n)^3+A*b*c^3*m^5*x^n+3*(x^n)^2*d*c^2*A*b+10*A*a*d^3*m^2*(x^n)^3+49*A*a*d^3*n^2*(x^n)^3+3*A*a*c^2*d^2*m^5*x^n+15*A*a*c*d^2*m^4*(x^n)^2+180*A*a*c*d^2*n^4*(x^n)^2+10*B*b*c^3*m^3*(x^n)^2+5*B*a*c^3*x^n*m+120*A*a*c^3*n^5+A*a*c^3*m^5+5*A*a*c^3*m^4+274*A*a*c^3*n^4+10*A*a*c^3*m^3+225*A*a*c^3*n^3+71*A*b*c^3*n^2*x^n+10*B*a*c^3*m^2*x^n+71*B*a*c^3*n^2*x^n+24*B*b*d^3*m*n^4*(x^n)^5+36*A*b*c*d^2*(x^n)^3*n+84*B*a*c^3*m^2*n*x^n+213*B*a*c^3*m*n^2*x^n+15*A*a*c^3*m^4*n+85*A*a*c^3*m^3*n^2+225*A*a*c^3*m^2*n^3+274*A*a*c^3*m*n^4+60*A*a*c^3*m*n+123*B*b*c*d^2*n^2*(x^n)^4+A*a*d^3*m^5*(x^n)^3+5*A*b*d^3*m^4*(x^n)^4+30*A*b*d^3*n^4*(x^n)^4+30*A*b*c*d^2*m^2*(x^n)^3+147*A*b*c*d^2*n^2*(x^n)^3+56*B*a*c^3*m^3*n*x^n+234*A*b*c*d^2*n^3*(x^n)^3+44*A*b*d^3*m*n*(x^n)^4+35*B
\end{aligned}$$

$$\begin{aligned}
 & *b*d^3*m^3*n^2*(x^n)^5+177*B*b*c^3*m^2*n^2*(x^n)^2+214*B*b*c^3*m*n^3*(x^n)^2 \\
 & +90*A*a*c^3*m^2*n+255*A*a*c^3*m*n^2+154*B*a*c^3*n^3*x^n+10*B*b*c^3*m^2*(x^n)^2 \\
 & +33*B*b*c*d^2*(x^n)^4+n+30*A*a*c^2*d*m^3*x^n+107*B*b*c^3*m^2*n^3*(x^n)^2 \\
 & +60*B*b*c^3*m*n^4*(x^n)^2+15*B*b*c^2*d*m^4*(x^n)^3+120*B*b*c^2*d*n^4*(x^n)^3 \\
 & +30*B*b*c*d^2*m^3*(x^n)^4+213*B*a*c^3*m^2*n^2*x^n+308*B*a*c^3*m*n^3*x^n+10 \\
 & *A*b*d^3*m^2*(x^n)^4+3*(x^n)^2*d*c^2*B*a+3*x^n*A*a*c^2*d+41*A*b*d^3*n^2*(x^n)^4 \\
 & +50*B*b*d^3*m^2*n^3*(x^n)^5+10*B*b*d^3*m^4*n*(x^n)^5+30*A*a*c*d^2*m^3*(x^n)^2 \\
 & +30*A*b*d^3*m*n^4*(x^n)^4+11*B*a*d^3*m^4*n*(x^n)^4+41*B*a*d^3*m^3*n^2*(x^n)^4 \\
 & +61*B*a*d^3*m^2*n^3*(x^n)^4+5*A*b*c^3*x^n*m+107*B*b*c^3*n^3*(x^n)^2+30*B*a*c^2 \\
 & *d*m^3*(x^n)^2+321*B*a*c^2*d*n^3*(x^n)^2+30*B*a*c*d^2*m^2*(x^n)^3+147*B*a*c*d^2 \\
 & *n^2*(x^n)^3+78*B*b*c^3*m^2*n*(x^n)^2+177*B*b*c^3*m*n^2*(x^n)^2+30*B*b*c^2 \\
 & *d*m^2*(x^n)^3+154*A*b*c^3*n^3*x^n+10*A*b*d^3*m^3*(x^n)^4+61*A*b*d^3*n^3*(x^n)^4 \\
 & +10*B*a*d^3*m^3*(x^n)^4+61*B*a*d^3*n^3*(x^n)^4+B*b*c^3*m^5*(x^n)^2+B*b*d^3*m^5 \\
 & *(x^n)^5+10*B*a*c^3*m^3*x^n+147*A*a*d^3*m^2*n^2*(x^n)^3+14*A*b*c^3*m^4*n*x^n \\
 & +71*A*b*c^3*m^3*n^2*x^n+154*A*b*c^3*m^2*n^3*x^n+120*A*b*c^3*m*n^4*x^n+15 \\
 & *A*b*c^2*d*m^4*(x^n)^2+3*(x^n)^4*B*b*c*d^2+180*B*a*c^2*d*n^4*(x^n)^2+147 \\
 & *B*b*c^2*d*n^2*(x^n)^3+15*B*b*c*d^2*(x^n)^4*m+5*m*b*B*d^3*(x^n)^5+10*b*B \\
 & *d^3*(x^n)^5*n+14*A*b*c^3*x^n*n+10*B*b*d^3*m^2*(x^n)^5+35*B*b*d^3*n^2*(x^n)^5 \\
 & +10*A*a*d^3*m^3*(x^n)^3+14*B*a*c^3*x^n*n+B*a*d^3*m^5*(x^n)^4+5*B*b*d^3*m^4 \\
 & *(x^n)^5+24*B*b*d^3*n^4*(x^n)^5+59*B*b*c^3*n^2*(x^n)^2+10*A*b*c^3*m^2*x^n \\
 & +44*B*a*d^3*m*n*(x^n)^4+52*B*b*c^3*m^3*n*(x^n)^2+321*A*a*c*d^2*n^3*(x^n)^2 \\
 & +30*B*b*c*d^2*m^2*(x^n)^4+48*A*a*d^3*m*n*(x^n)^3+56*A*b*c^3*m^3*n*x^n+213 \\
 & *A*b*c^3*m^2*n^2*x^n)/(1+m)/(1+m+n)/(1+m+2*n)/(1+m+3*n)/(1+m+4*n)/(1+m+5*n) \\
 & *x^m*e^m*\exp(1/2*I*csgn(I*e*x)*Pi*m*(csgn(I*e*x)-csgn(I*x))*(-csgn(I*e*x)+csgn(I*e)))
 \end{aligned}$$

Fricas [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 2833 vs. $2(210) = 420$.

Time = 0.37 (sec) , antiderivative size = 2833, normalized size of antiderivative = 13.49

$$\int (ex)^m (a + bx^n) (A + Bx^n) (c + dx^n)^3 dx = \text{Too large to display}$$

[In] integrate((e*x)^m*(a+b*x^n)*(A+B*x^n)*(c+d*x^n)^3,x, algorithm="fricas")

[Out] ((B*b*d^3*m^5 + 5*B*b*d^3*m^4 + 10*B*b*d^3*m^3 + 10*B*b*d^3*m^2 + 5*B*b*d^3*m + B*b*d^3 + 24*(B*b*d^3*m + B*b*d^3)*n^4 + 50*(B*b*d^3*m^2 + 2*B*b*d^3*m + B*b*d^3)*n^3 + 35*(B*b*d^3*m^3 + 3*B*b*d^3*m^2 + 3*B*b*d^3*m + B*b*d^3)*n^2 + 10*(B*b*d^3*m^4 + 4*B*b*d^3*m^3 + 6*B*b*d^3*m^2 + 4*B*b*d^3*m + B*b*d^3)*n)*x^(5*n)*e^(m*log(e) + m*log(x)) + ((3*B*b*c*d^2 + (B*a + A*b)*d^3)*m^5 + 3*B*b*c*d^2 + 5*(3*B*b*c*d^2 + (B*a + A*b)*d^3)*m^4 + 30*(3*B*b*c*d^2 + (B*a + A*b)*d^3 + (3*B*b*c*d^2 + (B*a + A*b)*d^3)*m)*n^4 + (B*a + A*b)*d^3 + 10*(3*B*b*c*d^2 + (B*a + A*b)*d^3)*m^3 + 61*(3*B*b*c*d^2 + (B*a + A*b)*d^3 + (3*B*b*c*d^2 + (B*a + A*b)*d^3)*m^2 + 2*(3*B*b*c*d^2 + (B*a + A*b)*d^3)*m + (B*a + A*b)*d^3)

$$\begin{aligned}
& d^3)m)n^3 + 10*(3*B*b*c*d^2 + (B*a + A*b)*d^3)*m^2 + 41*(3*B*b*c*d^2 + (B \\
& *a + A*b)*d^3 + (3*B*b*c*d^2 + (B*a + A*b)*d^3)*m^3 + 3*(3*B*b*c*d^2 + (B*a \\
& + A*b)*d^3)*m^2 + 3*(3*B*b*c*d^2 + (B*a + A*b)*d^3)*m)n^2 + 5*(3*B*b*c*d^ \\
& 2 + (B*a + A*b)*d^3)*m + 11*(3*B*b*c*d^2 + (3*B*b*c*d^2 + (B*a + A*b)*d^3)* \\
& m^4 + (B*a + A*b)*d^3 + 4*(3*B*b*c*d^2 + (B*a + A*b)*d^3)*m^3 + 6*(3*B*b*c* \\
& d^2 + (B*a + A*b)*d^3)*m^2 + 4*(3*B*b*c*d^2 + (B*a + A*b)*d^3)*m)n)*x*x^(4 \\
& *n)*e^(m*log(e) + m*log(x)) + ((3*B*b*c^2*d + A*a*d^3 + 3*(B*a + A*b)*c*d^2 \\
&)*m^5 + 3*B*b*c^2*d + A*a*d^3 + 5*(3*B*b*c^2*d + A*a*d^3 + 3*(B*a + A*b)*c* \\
& d^2)*m^4 + 40*(3*B*b*c^2*d + A*a*d^3 + 3*(B*a + A*b)*c*d^2 + (3*B*b*c^2*d + \\
& A*a*d^3 + 3*(B*a + A*b)*c*d^2)*m)n^4 + 3*(B*a + A*b)*c*d^2 + 10*(3*B*b*c^ \\
& 2*d + A*a*d^3 + 3*(B*a + A*b)*c*d^2)*m^3 + 78*(3*B*b*c^2*d + A*a*d^3 + 3*(B \\
& *a + A*b)*c*d^2 + (3*B*b*c^2*d + A*a*d^3 + 3*(B*a + A*b)*c*d^2)*m^2 + 2*(3* \\
& B*b*c^2*d + A*a*d^3 + 3*(B*a + A*b)*c*d^2)*m)n^3 + 10*(3*B*b*c^2*d + A*a*d \\
& ^3 + 3*(B*a + A*b)*c*d^2)*m^2 + 49*(3*B*b*c^2*d + A*a*d^3 + 3*(B*a + A*b)*c \\
& *d^2 + (3*B*b*c^2*d + A*a*d^3 + 3*(B*a + A*b)*c*d^2)*m^3 + 3*(3*B*b*c^2*d + \\
& A*a*d^3 + 3*(B*a + A*b)*c*d^2)*m^2 + 3*(3*B*b*c^2*d + A*a*d^3 + 3*(B*a + A \\
& *b)*c*d^2)*m)n^2 + 5*(3*B*b*c^2*d + A*a*d^3 + 3*(B*a + A*b)*c*d^2)*m + 12* \\
& (3*B*b*c^2*d + A*a*d^3 + (3*B*b*c^2*d + A*a*d^3 + 3*(B*a + A*b)*c*d^2)*m^4 \\
& + 3*(B*a + A*b)*c*d^2 + 4*(3*B*b*c^2*d + A*a*d^3 + 3*(B*a + A*b)*c*d^2)*m^3 \\
& + 6*(3*B*b*c^2*d + A*a*d^3 + 3*(B*a + A*b)*c*d^2)*m^2 + 4*(3*B*b*c^2*d + A \\
& *a*d^3 + 3*(B*a + A*b)*c*d^2)*m)n)*x*x^(3*n)*e^(m*log(e) + m*log(x)) + ((B \\
& *b*c^3 + 3*A*a*c*d^2 + 3*(B*a + A*b)*c^2*d)*m^5 + B*b*c^3 + 3*A*a*c*d^2 + 5 \\
& *(B*b*c^3 + 3*A*a*c*d^2 + 3*(B*a + A*b)*c^2*d)*m^4 + 60*(B*b*c^3 + 3*A*a*c* \\
& d^2 + 3*(B*a + A*b)*c^2*d + (B*b*c^3 + 3*A*a*c*d^2 + 3*(B*a + A*b)*c^2*d)*m \\
&)n^4 + 3*(B*a + A*b)*c^2*d + 10*(B*b*c^3 + 3*A*a*c*d^2 + 3*(B*a + A*b)*c^2 \\
& *d)*m^3 + 107*(B*b*c^3 + 3*A*a*c*d^2 + 3*(B*a + A*b)*c^2*d + (B*b*c^3 + 3*A \\
& *a*c*d^2 + 3*(B*a + A*b)*c^2*d)*m^2 + 2*(B*b*c^3 + 3*A*a*c*d^2 + 3*(B*a + A \\
& *b)*c^2*d)*m)n^3 + 10*(B*b*c^3 + 3*A*a*c*d^2 + 3*(B*a + A*b)*c^2*d)*m^2 + \\
& 59*(B*b*c^3 + 3*A*a*c*d^2 + 3*(B*a + A*b)*c^2*d + (B*b*c^3 + 3*A*a*c*d^2 + \\
& 3*(B*a + A*b)*c^2*d)*m^3 + 3*(B*b*c^3 + 3*A*a*c*d^2 + 3*(B*a + A*b)*c^2*d)* \\
& m^2 + 3*(B*b*c^3 + 3*A*a*c*d^2 + 3*(B*a + A*b)*c^2*d)*m)n^2 + 5*(B*b*c^3 + \\
& 3*A*a*c*d^2 + 3*(B*a + A*b)*c^2*d)*m + 13*(B*b*c^3 + 3*A*a*c*d^2 + (B*b*c^ \\
& 3 + 3*A*a*c*d^2 + 3*(B*a + A*b)*c^2*d)*m^4 + 3*(B*a + A*b)*c^2*d + 4*(B*b*c \\
& ^3 + 3*A*a*c*d^2 + 3*(B*a + A*b)*c^2*d)*m^3 + 6*(B*b*c^3 + 3*A*a*c*d^2 + 3* \\
& (B*a + A*b)*c^2*d)*m^2 + 4*(B*b*c^3 + 3*A*a*c*d^2 + 3*(B*a + A*b)*c^2*d)*m) \\
& n)*x*x^(2*n)*e^(m*log(e) + m*log(x)) + ((3*A*a*c^2*d + (B*a + A*b)*c^3)*m^ \\
& 5 + 3*A*a*c^2*d + 5*(3*A*a*c^2*d + (B*a + A*b)*c^3)*m^4 + 120*(3*A*a*c^2*d \\
& + (B*a + A*b)*c^3 + (3*A*a*c^2*d + (B*a + A*b)*c^3)*m)n^4 + (B*a + A*b)*c^ \\
& 3 + 10*(3*A*a*c^2*d + (B*a + A*b)*c^3)*m^3 + 154*(3*A*a*c^2*d + (B*a + A*b) \\
& *c^3 + (3*A*a*c^2*d + (B*a + A*b)*c^3)*m^2 + 2*(3*A*a*c^2*d + (B*a + A*b)*c \\
& ^3)*m)n^3 + 10*(3*A*a*c^2*d + (B*a + A*b)*c^3)*m^2 + 71*(3*A*a*c^2*d + (B*a \\
& + A*b)*c^3 + (3*A*a*c^2*d + (B*a + A*b)*c^3)*m^3 + 3*(3*A*a*c^2*d + (B*a \\
& + A*b)*c^3)*m^2 + 3*(3*A*a*c^2*d + (B*a + A*b)*c^3)*m)n^2 + 5*(3*A*a*c^2*d \\
& + (B*a + A*b)*c^3)*m + 14*(3*A*a*c^2*d + (3*A*a*c^2*d + (B*a + A*b)*c^3)*m \\
& ^4 + (B*a + A*b)*c^3 + 4*(3*A*a*c^2*d + (B*a + A*b)*c^3)*m^3 + 6*(3*A*a*c^2
\end{aligned}$$

```
*d + (B*a + A*b)*c^3)*m^2 + 4*(3*A*a*c^2*d + (B*a + A*b)*c^3)*m)*n)*x*x^n*e
^(m*log(e) + m*log(x)) + (A*a*c^3*m^5 + 120*A*a*c^3*n^5 + 5*A*a*c^3*m^4 + 1
0*A*a*c^3*m^3 + 10*A*a*c^3*m^2 + 5*A*a*c^3*m + A*a*c^3 + 274*(A*a*c^3*m + A
*a*c^3)*n^4 + 225*(A*a*c^3*m^2 + 2*A*a*c^3*m + A*a*c^3)*n^3 + 85*(A*a*c^3*m
^3 + 3*A*a*c^3*m^2 + 3*A*a*c^3*m + A*a*c^3)*n^2 + 15*(A*a*c^3*m^4 + 4*A*a*c
^3*m^3 + 6*A*a*c^3*m^2 + 4*A*a*c^3*m + A*a*c^3)*n)*x*e^(m*log(e) + m*log(x)
))/ (m^6 + 120*(m + 1)*n^5 + 6*m^5 + 274*(m^2 + 2*m + 1)*n^4 + 15*m^4 + 225*
(m^3 + 3*m^2 + 3*m + 1)*n^3 + 20*m^3 + 85*(m^4 + 4*m^3 + 6*m^2 + 4*m + 1)*n
^2 + 15*m^2 + 15*(m^5 + 5*m^4 + 10*m^3 + 10*m^2 + 5*m + 1)*n + 6*m + 1)
```

Sympy [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 64068 vs. $2(206) = 412$.

Time = 13.33 (sec) , antiderivative size = 64068, normalized size of antiderivative = 305.09

$$\int (ex)^m (a + bx^n) (A + Bx^n) (c + dx^n)^3 dx = \text{Too large to display}$$

```
[In] integrate((e*x)**m*(a+b*x**n)*(A+B*x**n)*(c+d*x**n)**3,x)
```

```
[Out] Piecewise(((A + B)*(a + b)*(c + d)**3*log(x)/e, Eq(m, -1) & Eq(n, 0)), ((A*
a*c**3*log(x) + 3*A*a*c**2*d*x**n/n + 3*A*a*c*d**2*x**(2*n)/(2*n) + A*a*d**
3*x**(3*n)/(3*n) + A*b*c**3*x**n/n + 3*A*b*c**2*d*x**(2*n)/(2*n) + A*b*c*d*
**2*x**(3*n)/n + A*b*d**3*x**(4*n)/(4*n) + B*a*c**3*x**n/n + 3*B*a*c**2*d*x*
*(2*n)/(2*n) + B*a*c*d**2*x**(3*n)/n + B*a*d**3*x**(4*n)/(4*n) + B*b*c**3*x
**(2*n)/(2*n) + B*b*c**2*d*x**(3*n)/n + 3*B*b*c*d**2*x**(4*n)/(4*n) + B*b*d
**3*x**(5*n)/(5*n))/e, Eq(m, -1)), (A*a*c**3*Piecewise((0**(-5*n - 1)*x, Eq
(e, 0)), (Piecewise((-1/(5*n*(e*x)**(5*n))), Ne(n, 0)), (log(e*x), True))/e,
True)) + 3*A*a*c**2*d*Piecewise((-x*x**n*(e*x)**(-5*n - 1)/(4*n), Ne(n, 0)
), (x*x**n*(e*x)**(-5*n - 1)*log(x), True)) + 3*A*a*c*d**2*Piecewise((-x*x*
*(2*n)*(e*x)**(-5*n - 1)/(3*n), Ne(n, 0)), (x*x**(2*n)*(e*x)**(-5*n - 1)*lo
g(x), True)) + A*a*d**3*Piecewise((-x*x**(3*n)*(e*x)**(-5*n - 1)/(2*n), Ne(
n, 0)), (x*x**(3*n)*(e*x)**(-5*n - 1)*log(x), True)) + A*b*c**3*Piecewise((
-x*x**n*(e*x)**(-5*n - 1)/(4*n), Ne(n, 0)), (x*x**n*(e*x)**(-5*n - 1)*log(x)
), True)) + 3*A*b*c**2*d*Piecewise((-x*x**(2*n)*(e*x)**(-5*n - 1)/(3*n), Ne
(n, 0)), (x*x**(2*n)*(e*x)**(-5*n - 1)*log(x), True)) + 3*A*b*c*d**2*Piecew
ise((-x*x**(3*n)*(e*x)**(-5*n - 1)/(2*n), Ne(n, 0)), (x*x**(3*n)*(e*x)**(-5
*n - 1)*log(x), True)) + A*b*d**3*Piecewise((-x*x**(4*n)*(e*x)**(-5*n - 1)/
n, Ne(n, 0)), (x*x**(4*n)*(e*x)**(-5*n - 1)*log(x), True)) + B*a*c**3*Piec
e wise((-x*x**n*(e*x)**(-5*n - 1)/(4*n), Ne(n, 0)), (x*x**n*(e*x)**(-5*n - 1)
*log(x), True)) + 3*B*a*c**2*d*Piecewise((-x*x**(2*n)*(e*x)**(-5*n - 1)/(3*
n), Ne(n, 0)), (x*x**(2*n)*(e*x)**(-5*n - 1)*log(x), True)) + 3*B*a*c*d**2*
Piecewise((-x*x**(3*n)*(e*x)**(-5*n - 1)/(2*n), Ne(n, 0)), (x*x**(3*n)*(e*x)
)**(-5*n - 1)*log(x), True)) + B*a*d**3*Piecewise((-x*x**(4*n)*(e*x)**(-5*n
- 1)/n, Ne(n, 0)), (x*x**(4*n)*(e*x)**(-5*n - 1)*log(x), True)) + B*b*c**3
```

```

*Piecewise((-x*x**(2*n)*(e*x)**(-5*n - 1)/(3*n), Ne(n, 0)), (x*x**(2*n)*(e*
x)**(-5*n - 1)*log(x), True)) + 3*B*b*c**2*d*Piecewise((-x*x**(3*n)*(e*x)**
(-5*n - 1)/(2*n), Ne(n, 0)), (x*x**(3*n)*(e*x)**(-5*n - 1)*log(x), True)) +
3*B*b*c*d**2*Piecewise((-x*x**(4*n)*(e*x)**(-5*n - 1)/n, Ne(n, 0)), (x*x**
(4*n)*(e*x)**(-5*n - 1)*log(x), True)) + B*b*d**3*x*x**(5*n)*(e*x)**(-5*n -
1)*log(x), Eq(m, -5*n - 1)), (A*a*c**3*Piecewise((0**(-4*n - 1)*x, Eq(e, 0
)), (Piecewise((-1/(4*n*(e*x)**(4*n)), Ne(n, 0)), (log(e*x), True))/e, True
)) + 3*A*a*c**2*d*Piecewise((-x*x**n*(e*x)**(-4*n - 1)/(3*n), Ne(n, 0)), (x
*x**n*(e*x)**(-4*n - 1)*log(x), True)) + 3*A*a*c*d**2*Piecewise((-x*x**(2*n
)*(e*x)**(-4*n - 1)/(2*n), Ne(n, 0)), (x*x**(2*n)*(e*x)**(-4*n - 1)*log(x),
True)) + A*a*d**3*Piecewise((-x*x**(3*n)*(e*x)**(-4*n - 1)/n, Ne(n, 0)), (
x*x**(3*n)*(e*x)**(-4*n - 1)*log(x), True)) + A*b*c**3*Piecewise((-x*x**n*(
e*x)**(-4*n - 1)/(3*n), Ne(n, 0)), (x*x**n*(e*x)**(-4*n - 1)*log(x), True))
+ 3*A*b*c**2*d*Piecewise((-x*x**(2*n)*(e*x)**(-4*n - 1)/(2*n), Ne(n, 0)),
(x*x**(2*n)*(e*x)**(-4*n - 1)*log(x), True)) + 3*A*b*c*d**2*Piecewise((-x*x
**(3*n)*(e*x)**(-4*n - 1)/n, Ne(n, 0)), (x*x**(3*n)*(e*x)**(-4*n - 1)*log(x
), True)) + A*b*d**3*x*x**(4*n)*(e*x)**(-4*n - 1)*log(x) + B*a*c**3*Piecewi
se((-x*x**n*(e*x)**(-4*n - 1)/(3*n), Ne(n, 0)), (x*x**n*(e*x)**(-4*n - 1)*l
og(x), True)) + 3*B*a*c**2*d*Piecewise((-x*x**(2*n)*(e*x)**(-4*n - 1)/(2*n)
, Ne(n, 0)), (x*x**(2*n)*(e*x)**(-4*n - 1)*log(x), True)) + 3*B*a*c*d**2*Pi
ecewise((-x*x**(3*n)*(e*x)**(-4*n - 1)/n, Ne(n, 0)), (x*x**(3*n)*(e*x)**(-4
*n - 1)*log(x), True)) + B*a*d**3*x*x**(4*n)*(e*x)**(-4*n - 1)*log(x) + B*b
*c**3*Piecewise((-x*x**(2*n)*(e*x)**(-4*n - 1)/(2*n), Ne(n, 0)), (x*x**(2*n
)*(e*x)**(-4*n - 1)*log(x), True)) + 3*B*b*c**2*d*Piecewise((-x*x**(3*n)*(e
*x)**(-4*n - 1)/n, Ne(n, 0)), (x*x**(3*n)*(e*x)**(-4*n - 1)*log(x), True))
+ 3*B*b*c*d**2*x*x**(4*n)*(e*x)**(-4*n - 1)*log(x) + B*b*d**3*Piecewise((x*
x**(5*n)*(e*x)**(-4*n - 1)/n, Ne(n, 0)), (x*x**(5*n)*(e*x)**(-4*n - 1)*log(
x), True)), Eq(m, -4*n - 1)), (A*a*c**3*Piecewise((0**(-3*n - 1)*x, Eq(e, 0
)), (Piecewise((-1/(3*n*(e*x)**(3*n)), Ne(n, 0)), (log(e*x), True))/e, True
)) + 3*A*a*c**2*d*Piecewise((-x*x**n*(e*x)**(-3*n - 1)/(2*n), Ne(n, 0)), (x
*x**n*(e*x)**(-3*n - 1)*log(x), True)) + 3*A*a*c*d**2*Piecewise((-x*x**(2*n
)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x*x**(2*n)*(e*x)**(-3*n - 1)*log(x), Tru
e)) + A*a*d**3*x*x**(3*n)*(e*x)**(-3*n - 1)*log(x) + A*b*c**3*Piecewise((-x
*x**n*(e*x)**(-3*n - 1)/(2*n), Ne(n, 0)), (x*x**n*(e*x)**(-3*n - 1)*log(x),
True)) + 3*A*b*c**2*d*Piecewise((-x*x**(2*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)
), (x*x**(2*n)*(e*x)**(-3*n - 1)*log(x), True)) + 3*A*b*c*d**2*x*x**(3*n)*(
e*x)**(-3*n - 1)*log(x) + A*b*d**3*Piecewise((x*x**(4*n)*(e*x)**(-3*n - 1)/
n, Ne(n, 0)), (x*x**(4*n)*(e*x)**(-3*n - 1)*log(x), True)) + B*a*c**3*Piece
wise((-x*x**n*(e*x)**(-3*n - 1)/(2*n), Ne(n, 0)), (x*x**n*(e*x)**(-3*n - 1)
*log(x), True)) + 3*B*a*c**2*d*Piecewise((-x*x**(2*n)*(e*x)**(-3*n - 1)/n,
Ne(n, 0)), (x*x**(2*n)*(e*x)**(-3*n - 1)*log(x), True)) + 3*B*a*c*d**2*x*x*
*(3*n)*(e*x)**(-3*n - 1)*log(x) + B*a*d**3*Piecewise((x*x**(4*n)*(e*x)**(-3
*n - 1)/n, Ne(n, 0)), (x*x**(4*n)*(e*x)**(-3*n - 1)*log(x), True)) + B*b*c*
**3*Piecewise((-x*x**(2*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x*x**(2*n)*(e*x)
**(-3*n - 1)*log(x), True)) + 3*B*b*c**2*d*x*x**(3*n)*(e*x)**(-3*n - 1)*log

```

$(x) + 3*B*b*c*d**2*Piecewise((x*x**(4*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x$
 $*x**(4*n)*(e*x)**(-3*n - 1)*log(x), True)) + B*b*d**3*Piecewise((x*x**(5*n)$
 $*(e*x)**(-3*n - 1)/(2*n), Ne(n, 0)), (x*x**(5*n)*(e*x)**(-3*n - 1)*log(x),$
 $True)), Eq(m, -3*n - 1)), (A*a*c**3*Piecewise((0**(-2*n - 1)*x, Eq(e, 0)),$
 $(Piecewise((-1/(2*n*(e*x)**(2*n))), Ne(n, 0)), (log(e*x), True))/e, True)) +$
 $3*A*a*c**2*d*Piecewise((-x*x**n*(e*x)**(-2*n - 1)/n, Ne(n, 0)), (x*x**n*(e$
 $x)**(-2*n - 1)*log(x), True)) + 3*A*a*c*d**2*x*x**(2*n)*(e*x)**(-2*n - 1)*$
 $log(x) + A*a*d**3*Piecewise((x*x**(3*n)*(e*x)**(-2*n - 1)/n, Ne(n, 0)), (x*$
 $x**(3*n)*(e*x)**(-2*n - 1)*log(x), True)) + A*b*c**3*Piecewise((-x*x**n*(e*$
 $x)**(-2*n - 1)/n, Ne(n, 0)), (x*x**n*(e*x)**(-2*n - 1)*log(x), True)) + 3*A$
 $*b*c**2*d*x*x**(2*n)*(e*x)**(-2*n - 1)*log(x) + 3*A*b*c*d**2*Piecewise((x*x$
 $** (3*n)*(e*x)**(-2*n - 1)/n, Ne(n, 0)), (x*x**(3*n)*(e*x)**(-2*n - 1)*log(x$
 $), True)) + A*b*d**3*Piecewise((x*x**(4*n)*(e*x)**(-2*n - 1)/(2*n), Ne(n, 0$
 $)), (x*x**(4*n)*(e*x)**(-2*n - 1)*log(x), True)) + B*a*c**3*Piecewise((-x*x$
 $**n*(e*x)**(-2*n - 1)/n, Ne(n, 0)), (x*x**n*(e*x)**(-2*n - 1)*log(x), True)$
 $) + 3*B*a*c**2*d*x*x**(2*n)*(e*x)**(-2*n - 1)*log(x) + 3*B*a*c*d**2*Piecewi$
 $se((x*x**(3*n)*(e*x)**(-2*n - 1)/n, Ne(n, 0)), (x*x**(3*n)*(e*x)**(-2*n - 1$
 $)*log(x), True)) + B*a*d**3*Piecewise((x*x**(4*n)*(e*x)**(-2*n - 1)/(2*n),$
 $Ne(n, 0)), (x*x**(4*n)*(e*x)**(-2*n - 1)*log(x), True)) + B*b*c**3*x*x**(2*$
 $n)*(e*x)**(-2*n - 1)*log(x) + 3*B*b*c**2*d*Piecewise((x*x**(3*n)*(e*x)**(-2$
 $*n - 1)/n, Ne(n, 0)), (x*x**(3*n)*(e*x)**(-2*n - 1)*log(x), True)) + 3*B*b*$
 $c*d**2*Piecewise((x*x**(4*n)*(e*x)**(-2*n - 1)/(2*n), Ne(n, 0)), (x*x**(4*n$
 $)*(e*x)**(-2*n - 1)*log(x), True)) + B*b*d**3*Piecewise((x*x**(5*n)*(e*x)**$
 $(-2*n - 1)/(3*n), Ne(n, 0)), (x*x**(5*n)*(e*x)**(-2*n - 1)*log(x), True)),$
 $Eq(m, -2*n - 1)), (A*a*c**3*Piecewise((0**(-n - 1)*x, Eq(e, 0)), (Piecewise$
 $((-1/(n*(e*x)**n), Ne(n, 0)), (log(e*x), True))/e, True)) + 3*A*a*c**2*d*x*$
 $x**n*(e*x)**(-n - 1)*log(x) + 3*A*a*c*d**2*Piecewise((x*x**(2*n)*(e*x)**(-n$
 $- 1)/n, Ne(n, 0)), (x*x**(2*n)*(e*x)**(-n - 1)*log(x), True)) + A*a*d**3*P$
 $iecewise((x*x**(3*n)*(e*x)**(-n - 1)/(2*n), Ne(n, 0)), (x*x**(3*n)*(e*x)**(-$
 $n - 1)*log(x), True)) + A*b*c**3*x*x**n*(e*x)**(-n - 1)*log(x) + 3*A*b*c**$
 $2*d*Piecewise((x*x**(2*n)*(e*x)**(-n - 1)/n, Ne(n, 0)), (x*x**(2*n)*(e*x)**$
 $(-n - 1)*log(x), True)) + 3*A*b*c*d**2*Piecewise((x*x**(3*n)*(e*x)**(-n - 1$
 $)/(2*n), Ne(n, 0)), (x*x**(3*n)*(e*x)**(-n - 1)*log(x), True)) + A*b*d**3*P$
 $iecewise((x*x**(4*n)*(e*x)**(-n - 1)/(3*n), Ne(n, 0)), (x*x**(4*n)*(e*x)**(-$
 $n - 1)*log(x), True)) + B*a*c**3*x*x**n*(e*x)**(-n - 1)*log(x) + 3*B*a*c**$
 $2*d*Piecewise((x*x**(2*n)*(e*x)**(-n - 1)/n, Ne(n, 0)), (x*x**(2*n)*(e*x)**$
 $(-n - 1)*log(x), True)) + 3*B*a*c*d**2*Piecewise((x*x**(3*n)*(e*x)**(-n - 1$
 $)/(2*n), Ne(n, 0)), (x*x**(3*n)*(e*x)**(-n - 1)*log(x), True)) + B*a*d**3*P$
 $iecewise((x*x**(4*n)*(e*x)**(-n - 1)/(3*n), Ne(n, 0)), (x*x**(4*n)*(e*x)**(-$
 $n - 1)*log(x), True)) + B*b*c**3*Piecewise((x*x**(2*n)*(e*x)**(-n - 1)/n,$
 $Ne(n, 0)), (x*x**(2*n)*(e*x)**(-n - 1)*log(x), True)) + 3*B*b*c**2*d*Piecew$
 $ise((x*x**(3*n)*(e*x)**(-n - 1)/(2*n), Ne(n, 0)), (x*x**(3*n)*(e*x)**(-n -$
 $1)*log(x), True)) + 3*B*b*c*d**2*Piecewise((x*x**(4*n)*(e*x)**(-n - 1)/(3*n$
 $), Ne(n, 0)), (x*x**(4*n)*(e*x)**(-n - 1)*log(x), True)) + B*b*d**3*Piecewi$
 $se((x*x**(5*n)*(e*x)**(-n - 1)/(4*n), Ne(n, 0)), (x*x**(5*n)*(e*x)**(-n - 1$

$$\begin{aligned}
&) * \log(x), \text{True})), \text{Eq}(m, -n - 1)), (A * a * c^{**3} * m^{**5} * x * (e * x)^{**m} / (m^{**6} + 15 * m^{**5} \\
& * n + 6 * m^{**5} + 85 * m^{**4} * n^{**2} + 75 * m^{**4} * n + 15 * m^{**4} + 225 * m^{**3} * n^{**3} + 340 * m^{**3} \\
& * n^{**2} + 150 * m^{**3} * n + 20 * m^{**3} + 274 * m^{**2} * n^{**4} + 675 * m^{**2} * n^{**3} + 510 * m^{**2} * n^{**2} \\
& + 150 * m^{**2} * n + 15 * m^{**2} + 120 * m * n^{**5} + 548 * m * n^{**4} + 675 * m * n^{**3} + 340 * m * n^{**2} \\
& + 75 * m * n + 6 * m + 120 * n^{**5} + 274 * n^{**4} + 225 * n^{**3} + 85 * n^{**2} + 15 * n + 1) + 1 \\
& 5 * A * a * c^{**3} * m^{**4} * n * x * (e * x)^{**m} / (m^{**6} + 15 * m^{**5} * n + 6 * m^{**5} + 85 * m^{**4} * n^{**2} + 75 \\
& * m^{**4} * n + 15 * m^{**4} + 225 * m^{**3} * n^{**3} + 340 * m^{**3} * n^{**2} + 150 * m^{**3} * n + 20 * m^{**3} + \\
& 274 * m^{**2} * n^{**4} + 675 * m^{**2} * n^{**3} + 510 * m^{**2} * n^{**2} + 150 * m^{**2} * n + 15 * m^{**2} + 120 * \\
& m * n^{**5} + 548 * m * n^{**4} + 675 * m * n^{**3} + 340 * m * n^{**2} + 75 * m * n + 6 * m + 120 * n^{**5} + 2 \\
& 74 * n^{**4} + 225 * n^{**3} + 85 * n^{**2} + 15 * n + 1) + 5 * A * a * c^{**3} * m^{**4} * x * (e * x)^{**m} / (m^{**6} \\
& + 15 * m^{**5} * n + 6 * m^{**5} + 85 * m^{**4} * n^{**2} + 75 * m^{**4} * n + 15 * m^{**4} + 225 * m^{**3} * n^{**3} \\
& + 340 * m^{**3} * n^{**2} + 150 * m^{**3} * n + 20 * m^{**3} + 274 * m^{**2} * n^{**4} + 675 * m^{**2} * n^{**3} + 51 \\
& 0 * m^{**2} * n^{**2} + 150 * m^{**2} * n + 15 * m^{**2} + 120 * m * n^{**5} + 548 * m * n^{**4} + 675 * m * n^{**3} + \\
& 340 * m * n^{**2} + 75 * m * n + 6 * m + 120 * n^{**5} + 274 * n^{**4} + 225 * n^{**3} + 85 * n^{**2} + 15 * n \\
& + 1) + 85 * A * a * c^{**3} * m^{**3} * n^{**2} * x * (e * x)^{**m} / (m^{**6} + 15 * m^{**5} * n + 6 * m^{**5} + 85 * m \\
& **4 * n^{**2} + 75 * m^{**4} * n + 15 * m^{**4} + 225 * m^{**3} * n^{**3} + 340 * m^{**3} * n^{**2} + 150 * m^{**3} * n \\
& + 20 * m^{**3} + 274 * m^{**2} * n^{**4} + 675 * m^{**2} * n^{**3} + 510 * m^{**2} * n^{**2} + 150 * m^{**2} * n + 1 \\
& 5 * m^{**2} + 120 * m * n^{**5} + 548 * m * n^{**4} + 675 * m * n^{**3} + 340 * m * n^{**2} + 75 * m * n + 6 * m + \\
& 120 * n^{**5} + 274 * n^{**4} + 225 * n^{**3} + 85 * n^{**2} + 15 * n + 1) + 60 * A * a * c^{**3} * m^{**3} * n * \\
& x * (e * x)^{**m} / (m^{**6} + 15 * m^{**5} * n + 6 * m^{**5} + 85 * m^{**4} * n^{**2} + 75 * m^{**4} * n + 15 * m^{**4} \\
& + 225 * m^{**3} * n^{**3} + 340 * m^{**3} * n^{**2} + 150 * m^{**3} * n + 20 * m^{**3} + 274 * m^{**2} * n^{**4} + 67 \\
& 5 * m^{**2} * n^{**3} + 510 * m^{**2} * n^{**2} + 150 * m^{**2} * n + 15 * m^{**2} + 120 * m * n^{**5} + 548 * m * n^{**4} \\
& + 675 * m * n^{**3} + 340 * m * n^{**2} + 75 * m * n + 6 * m + 120 * n^{**5} + 274 * n^{**4} + 225 * n^{**3} \\
& + 85 * n^{**2} + 15 * n + 1) + 10 * A * a * c^{**3} * m^{**3} * x * (e * x)^{**m} / (m^{**6} + 15 * m^{**5} * n + 6 * \\
& m^{**5} + 85 * m^{**4} * n^{**2} + 75 * m^{**4} * n + 15 * m^{**4} + 225 * m^{**3} * n^{**3} + 340 * m^{**3} * n^{**2} + \\
& 150 * m^{**3} * n + 20 * m^{**3} + 274 * m^{**2} * n^{**4} + 675 * m^{**2} * n^{**3} + 510 * m^{**2} * n^{**2} + 150 \\
& * m^{**2} * n + 15 * m^{**2} + 120 * m * n^{**5} + 548 * m * n^{**4} + 675 * m * n^{**3} + 340 * m * n^{**2} + 75 * \\
& m * n + 6 * m + 120 * n^{**5} + 274 * n^{**4} + 225 * n^{**3} + 85 * n^{**2} + 15 * n + 1) + 225 * A * a * \\
& c^{**3} * m^{**2} * n^{**3} * x * (e * x)^{**m} / (m^{**6} + 15 * m^{**5} * n + 6 * m^{**5} + 85 * m^{**4} * n^{**2} + 75 * m \\
& * n^{**4} + 15 * m^{**4} + 225 * m^{**3} * n^{**3} + 340 * m^{**3} * n^{**2} + 150 * m^{**3} * n + 20 * m^{**3} + 274 \\
& * m^{**2} * n^{**4} + 675 * m^{**2} * n^{**3} + 510 * m^{**2} * n^{**2} + 150 * m^{**2} * n + 15 * m^{**2} + 120 * m * n \\
& **5 + 548 * m * n^{**4} + 675 * m * n^{**3} + 340 * m * n^{**2} + 75 * m * n + 6 * m + 120 * n^{**5} + 274 * \\
& n^{**4} + 225 * n^{**3} + 85 * n^{**2} + 15 * n + 1) + 255 * A * a * c^{**3} * m^{**2} * n^{**2} * x * (e * x)^{**m} / (\\
& m^{**6} + 15 * m^{**5} * n + 6 * m^{**5} + 85 * m^{**4} * n^{**2} + 75 * m^{**4} * n + 15 * m^{**4} + 225 * m^{**3} * n \\
& **3 + 340 * m^{**3} * n^{**2} + 150 * m^{**3} * n + 20 * m^{**3} + 274 * m^{**2} * n^{**4} + 675 * m^{**2} * n^{**3} \\
& + 510 * m^{**2} * n^{**2} + 150 * m^{**2} * n + 15 * m^{**2} + 120 * m * n^{**5} + 548 * m * n^{**4} + 675 * m * n \\
& * n^{**3} + 340 * m * n^{**2} + 75 * m * n + 6 * m + 120 * n^{**5} + 274 * n^{**4} + 225 * n^{**3} + 85 * n^{**2} + \\
& 15 * n + 1) + 90 * A * a * c^{**3} * m^{**2} * n * x * (e * x)^{**m} / (m^{**6} + 15 * m^{**5} * n + 6 * m^{**5} + 85 * \\
& m^{**4} * n^{**2} + 75 * m^{**4} * n + 15 * m^{**4} + 225 * m^{**3} * n^{**3} + 340 * m^{**3} * n^{**2} + 150 * m^{**3} * \\
& n + 20 * m^{**3} + 274 * m^{**2} * n^{**4} + 675 * m^{**2} * n^{**3} + 510 * m^{**2} * n^{**2} + 150 * m^{**2} * n + \\
& 15 * m^{**2} + 120 * m * n^{**5} + 548 * m * n^{**4} + 675 * m * n^{**3} + 340 * m * n^{**2} + 75 * m * n + 6 * m \\
& + 120 * n^{**5} + 274 * n^{**4} + 225 * n^{**3} + 85 * n^{**2} + 15 * n + 1) + 10 * A * a * c^{**3} * m^{**2} * x \\
& * (e * x)^{**m} / (m^{**6} + 15 * m^{**5} * n + 6 * m^{**5} + 85 * m^{**4} * n^{**2} + 75 * m^{**4} * n + 15 * m^{**4} + \\
& 225 * m^{**3} * n^{**3} + 340 * m^{**3} * n^{**2} + 150 * m^{**3} * n + 20 * m^{**3} + 274 * m^{**2} * n^{**4} + 675 \\
& * m^{**2} * n^{**3} + 510 * m^{**2} * n^{**2} + 150 * m^{**2} * n + 15 * m^{**2} + 120 * m * n^{**5} + 548 * m * n^{**4}
\end{aligned}$$

$$\begin{aligned}
& + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 \\
& + 85*n**2 + 15*n + 1) + 274*A*a*c**3*m*n**4*x*(e*x)**m/(m**6 + 15*m**5*n + \\
& 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 \\
& + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 1 \\
& 50*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 7 \\
& 5*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 450*A* \\
& a*c**3*m*n**3*x*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m** \\
& 4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274* \\
& m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n* \\
& **5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n \\
& **4 + 225*n**3 + 85*n**2 + 15*n + 1) + 255*A*a*c**3*m*n**2*x*(e*x)**m/(m**6 \\
& + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 \\
& + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 51 \\
& 0*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + \\
& 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15* \\
& n + 1) + 60*A*a*c**3*m*n*x*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n* \\
& **2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20* \\
& m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 \\
& + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n \\
& **5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 5*A*a*c**3*m*x*(e*x)**m/(\\
& m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n \\
& **3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 \\
& + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n* \\
& **3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + \\
& 15*n + 1) + 120*A*a*c**3*n**5*x*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m \\
& **4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n \\
& + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 1 \\
& 5*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + \\
& 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 274*A*a*c**3*n**4*x \\
& *(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + \\
& 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675 \\
& m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 \\
& + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 \\
& + 85*n**2 + 15*n + 1) + 225*A*a*c**3*n**3*x*(e*x)**m/(m**6 + 15*m**5*n + 6* \\
& m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + \\
& 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150 \\
& m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75* \\
& m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 85*A*a*c \\
& **3*n**2*x*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + \\
& 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2* \\
& n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + \\
& 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + \\
& 225*n**3 + 85*n**2 + 15*n + 1) + 15*A*a*c**3*n*x*(e*x)**m/(m**6 + 15*m**5* \\
& n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3* \\
& n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2
\end{aligned}$$

$$\begin{aligned}
& + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} \\
& + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + A* \\
& a*c^{**3}*x*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 1 \\
& 5*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n* \\
& *4 + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 54 \\
& 8*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 2 \\
& 25*n^{**3} + 85*n^{**2} + 15*n + 1) + 3*A*a*c^{**2}*d*m^{**5}*x*x^{**n}*(e*x)^{**m}/(m^{**6} + 1 \\
& 5*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 34 \\
& 0*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m* \\
& *2*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340 \\
& *m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + \\
& 1) + 42*A*a*c^{**2}*d*m^{**4}*n*x*x^{**n}*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m \\
& **4*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n \\
& + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 1 \\
& 5*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + \\
& 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 15*A*a*c^{**2}*d*m^{**4}* \\
& x*x^{**n}*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15* \\
& m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} \\
& + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548* \\
& m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225 \\
& *n^{**3} + 85*n^{**2} + 15*n + 1) + 213*A*a*c^{**2}*d*m^{**3}*n^{**2}*x*x^{**n}*(e*x)^{**m}/(m^{** \\
& 6 + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} \\
& + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 5 \\
& 10*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} \\
& + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15 \\
& *n + 1) + 168*A*a*c^{**2}*d*m^{**3}*n*x*x^{**n}*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} \\
& + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150* \\
& m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2} \\
& *n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + \\
& 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 30*A*a*c^{**2}*d \\
& *m^{**3}*x*x^{**n}*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n \\
& + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{** \\
& 2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} \\
& + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} \\
& + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 462*A*a*c^{**2}*d*m^{**2}*n^{**3}*x*x^{**n}*(e*x)^{** \\
& m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{** \\
& 3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n* \\
& *3 + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m \\
& *n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{** \\
& 2 + 15*n + 1) + 639*A*a*c^{**2}*d*m^{**2}*n^{**2}*x*x^{**n}*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n \\
& + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n* \\
& *2 + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + \\
& 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + \\
& 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 252* \\
& A*a*c^{**2}*d*m^{**2}*n*x*x^{**n}*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2}
\end{aligned}$$

$$\begin{aligned}
& + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 \\
& + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 \\
& + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 \\
& + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 30A^2d^2x^2x^n(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 2 \\
& 25m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m \\
& **2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + \\
& 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + \\
& 85n^2 + 15n + 1) + 360A^2d^2m^4x^2x^n(e^x)^m / (m^6 + 15m^5 \\
& *n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3 \\
& *n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 \\
& + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 \\
& + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 9 \\
& 24A^2d^2m^3x^2x^n(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n \\
& **2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20 \\
& *m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 \\
& + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 \\
& + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 639A^2d^2m^2x^2x^n(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 \\
& *4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + \\
& 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 \\
& + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 \\
& + 85n^2 + 15n + 1) + 168A^2d^2m^2x^2x^n(e^x)^m / (m^6 + 15m^5 \\
& *n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3 \\
& *n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 \\
& + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 \\
& + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) \\
& + 15A^2d^2m^2x^2x^n(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 \\
& + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 \\
& *3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + \\
& 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 \\
& + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 360A^2d^2n^4x^2x^n(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + \\
& 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m \\
& **2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + \\
& 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + \\
& 85n^2 + 15n + 1) + 462A^2d^2n^3x^2x^n(e^x)^m / (m^6 + 15m^5n \\
& + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 \\
& + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 \\
& + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 \\
& + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 21 \\
& 3A^2d^2n^2x^2x^n(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 \\
& + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 \\
& *3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + \\
& 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5
\end{aligned}$$

$$\begin{aligned}
& 5 + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 42Aa*c^{**2}*d*n*x*x^{**n}*(e*x) \\
&)^{**m}/(m^{**6} + 15m^{**5}*n + 6m^{**5} + 85m^{**4}*n^{**2} + 75m^{**4}*n + 15m^{**4} + 225m \\
& m^{**3}*n^{**3} + 340m^{**3}*n^{**2} + 150m^{**3}*n + 20m^{**3} + 274m^{**2}*n^{**4} + 675m^{**2} \\
& *n^{**3} + 510m^{**2}*n^{**2} + 150m^{**2}*n + 15m^{**2} + 120m*n^{**5} + 548m*n^{**4} + 67 \\
& 5m*n^{**3} + 340m*n^{**2} + 75m*n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n \\
& n^{**2} + 15n + 1) + 3Aa*c^{**2}*d*x*x^{**n}*(e*x)^{**m}/(m^{**6} + 15m^{**5}*n + 6m^{**5} \\
& + 85m^{**4}*n^{**2} + 75m^{**4}*n + 15m^{**4} + 225m^{**3}*n^{**3} + 340m^{**3}*n^{**2} + 150m \\
& m^{**3}*n + 20m^{**3} + 274m^{**2}*n^{**4} + 675m^{**2}*n^{**3} + 510m^{**2}*n^{**2} + 150m^{**2} \\
& *n + 15m^{**2} + 120m*n^{**5} + 548m*n^{**4} + 675m*n^{**3} + 340m*n^{**2} + 75m*n + \\
& 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 3Aa*c*d^{**2}* \\
& m^{**5}*x*x^{**2n}*(e*x)^{**m}/(m^{**6} + 15m^{**5}*n + 6m^{**5} + 85m^{**4}*n^{**2} + 75m^{**4} \\
& 4*n + 15m^{**4} + 225m^{**3}*n^{**3} + 340m^{**3}*n^{**2} + 150m^{**3}*n + 20m^{**3} + 274m \\
& m^{**2}*n^{**4} + 675m^{**2}*n^{**3} + 510m^{**2}*n^{**2} + 150m^{**2}*n + 15m^{**2} + 120m*n \\
& *5 + 548m*n^{**4} + 675m*n^{**3} + 340m*n^{**2} + 75m*n + 6m + 120n^{**5} + 274n \\
& **4 + 225n^{**3} + 85n^{**2} + 15n + 1) + 39Aa*c*d^{**2}*m^{**4}*n*x*x^{**2n}*(e*x) \\
&)^{**m}/(m^{**6} + 15m^{**5}*n + 6m^{**5} + 85m^{**4}*n^{**2} + 75m^{**4}*n + 15m^{**4} + 225m \\
& m^{**3}*n^{**3} + 340m^{**3}*n^{**2} + 150m^{**3}*n + 20m^{**3} + 274m^{**2}*n^{**4} + 675m^{**2} \\
& *n^{**3} + 510m^{**2}*n^{**2} + 150m^{**2}*n + 15m^{**2} + 120m*n^{**5} + 548m*n^{**4} + 67 \\
& 5m*n^{**3} + 340m*n^{**2} + 75m*n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n \\
& n^{**2} + 15n + 1) + 15Aa*c*d^{**2}*m^{**4}*x*x^{**2n}*(e*x)^{**m}/(m^{**6} + 15m^{**5}*n \\
& + 6m^{**5} + 85m^{**4}*n^{**2} + 75m^{**4}*n + 15m^{**4} + 225m^{**3}*n^{**3} + 340m^{**3}*n \\
& **2 + 150m^{**3}*n + 20m^{**3} + 274m^{**2}*n^{**4} + 675m^{**2}*n^{**3} + 510m^{**2}*n^{**2} \\
& + 150m^{**2}*n + 15m^{**2} + 120m*n^{**5} + 548m*n^{**4} + 675m*n^{**3} + 340m*n^{**2} \\
& + 75m*n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 177 \\
& *Aa*c*d^{**2}*m^{**3}*n^{**2}*x*x^{**2n}*(e*x)^{**m}/(m^{**6} + 15m^{**5}*n + 6m^{**5} + 85m \\
& **4*n^{**2} + 75m^{**4}*n + 15m^{**4} + 225m^{**3}*n^{**3} + 340m^{**3}*n^{**2} + 150m^{**3}*n \\
& + 20m^{**3} + 274m^{**2}*n^{**4} + 675m^{**2}*n^{**3} + 510m^{**2}*n^{**2} + 150m^{**2}*n + 1 \\
& 5m^{**2} + 120m*n^{**5} + 548m*n^{**4} + 675m*n^{**3} + 340m*n^{**2} + 75m*n + 6m + \\
& 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 156Aa*c*d^{**2}*m^{**3} \\
& *n*x*x^{**2n}*(e*x)^{**m}/(m^{**6} + 15m^{**5}*n + 6m^{**5} + 85m^{**4}*n^{**2} + 75m^{**4}* \\
& n + 15m^{**4} + 225m^{**3}*n^{**3} + 340m^{**3}*n^{**2} + 150m^{**3}*n + 20m^{**3} + 274m* \\
& *2*n^{**4} + 675m^{**2}*n^{**3} + 510m^{**2}*n^{**2} + 150m^{**2}*n + 15m^{**2} + 120m*n^{**5} \\
& + 548m*n^{**4} + 675m*n^{**3} + 340m*n^{**2} + 75m*n + 6m + 120n^{**5} + 274n^{**4} \\
& + 225n^{**3} + 85n^{**2} + 15n + 1) + 30Aa*c*d^{**2}*m^{**3}*x*x^{**2n}*(e*x)^{**m} \\
& / (m^{**6} + 15m^{**5}*n + 6m^{**5} + 85m^{**4}*n^{**2} + 75m^{**4}*n + 15m^{**4} + 225m^{**3} \\
& *n^{**3} + 340m^{**3}*n^{**2} + 150m^{**3}*n + 20m^{**3} + 274m^{**2}*n^{**4} + 675m^{**2}*n^{** \\
& 3 + 510m^{**2}*n^{**2} + 150m^{**2}*n + 15m^{**2} + 120m*n^{**5} + 548m*n^{**4} + 675m* \\
& n^{**3} + 340m*n^{**2} + 75m*n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} \\
& + 15n + 1) + 321Aa*c*d^{**2}*m^{**2}*n^{**3}*x*x^{**2n}*(e*x)^{**m}/(m^{**6} + 15m^{**5} \\
& *n + 6m^{**5} + 85m^{**4}*n^{**2} + 75m^{**4}*n + 15m^{**4} + 225m^{**3}*n^{**3} + 340m^{**3} \\
& *n^{**2} + 150m^{**3}*n + 20m^{**3} + 274m^{**2}*n^{**4} + 675m^{**2}*n^{**3} + 510m^{**2}*n^{** \\
& 2 + 150m^{**2}*n + 15m^{**2} + 120m*n^{**5} + 548m*n^{**4} + 675m*n^{**3} + 340m*n^{** \\
& 2 + 75m*n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 5 \\
& 31Aa*c*d^{**2}*m^{**2}*n^{**2}*x*x^{**2n}*(e*x)^{**m}/(m^{**6} + 15m^{**5}*n + 6m^{**5} + 85 \\
& m^{**4}*n^{**2} + 75m^{**4}*n + 15m^{**4} + 225m^{**3}*n^{**3} + 340m^{**3}*n^{**2} + 150m^{**3}
\end{aligned}$$

$$\begin{aligned}
& *n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + \\
& 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m \\
& + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 234*A*a*c*d**2*m* \\
& *2*n*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m** \\
& 4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274* \\
& m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n* \\
& *5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n* \\
& **4 + 225*n**3 + 85*n**2 + 15*n + 1) + 30*A*a*c*d**2*m**2*x*x**(2*n)*(e*x)* \\
& **m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m* \\
& *3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n \\
& **3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675* \\
& m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n* \\
& *2 + 15*n + 1) + 180*A*a*c*d**2*m*n**4*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5* \\
& n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3* \\
& n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 \\
& + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 \\
& + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 64 \\
& 2*A*a*c*d**2*m*n**3*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m** \\
& 4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + \\
& 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15* \\
& m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 1 \\
& 20*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 531*A*a*c*d**2*m*n**2 \\
& *x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n \\
& + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2 \\
& *n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + \\
& 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 \\
& + 225*n**3 + 85*n**2 + 15*n + 1) + 156*A*a*c*d**2*m*n*x*x**(2*n)*(e*x)**m/(\\
& m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n \\
& **3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 \\
& + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n* \\
& *3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + \\
& 15*n + 1) + 15*A*a*c*d**2*m*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 \\
& + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150 \\
& *m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m** \\
& 2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n \\
& + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 180*A*a*c*d* \\
& *2*n**4*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75* \\
& m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 2 \\
& 74*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m \\
& *n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 27 \\
& 4*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 321*A*a*c*d**2*n**3*x*x**(2*n)*(e \\
& *x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 22 \\
& 5*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m* \\
& *2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + \\
& 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 8
\end{aligned}$$

$$\begin{aligned}
& 6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 \\
& + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 5 \\
& 10*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 \\
& + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15 \\
& *n + 1) + 49*A*a*d**3*n**2*x*x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + \\
& 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m \\
& **3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n \\
& + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + \\
& 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 12*A*a*d**3*n* \\
& x*x**(3*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + \\
& 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2* \\
& n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + \\
& 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + \\
& 225*n**3 + 85*n**2 + 15*n + 1) + A*a*d**3*x*x**(3*n)*(e*x)**m/(m**6 + 15*m \\
& **5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m \\
& **3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2* \\
& n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m* \\
& n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) \\
& + A*b*c**3*m**5*x*x**n*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + \\
& 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 \\
& + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 1 \\
& 20*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 \\
& + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 14*A*b*c**3*m**4*n*x*x**n*(e \\
& x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225 \\
& *m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m** \\
& 2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 6 \\
& 75*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85 \\
& *n**2 + 15*n + 1) + 5*A*b*c**3*m**4*x*x**n*(e*x)**m/(m**6 + 15*m**5*n + 6*m \\
& **5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + \\
& 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150* \\
& m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m \\
& *n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 71*A*b*c* \\
& *3*m**3*n**2*x*x**n*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75 \\
& *m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + \\
& 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120* \\
& m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 2 \\
& 74*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 56*A*b*c**3*m**3*n*x*x**n*(e*x)* \\
& *m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m* \\
& *3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n \\
& **3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675* \\
& m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n* \\
& *2 + 15*n + 1) + 10*A*b*c**3*m**3*x*x**n*(e*x)**m/(m**6 + 15*m**5*n + 6*m** \\
& 5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 15 \\
& 0*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m* \\
& *2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n
\end{aligned}$$

$$\begin{aligned}
& 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m* \\
& n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n \\
& **3 + 85*n^{**2} + 15*n + 1) + 154*A*b*c^{**3}*n^{**3}*x*x^{**n}*(e*x)^{**m}/(m^{**6} + 15*m* \\
& *5*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m* \\
& **3*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n \\
& **2 + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n \\
& **2 + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + \\
& 71*A*b*c^{**3}*n^{**2}*x*x^{**n}*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} \\
& + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m* \\
& **3 + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + \\
& 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} \\
& + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 14*A*b*c^{**3}*n*x*x^{**n}*(e*x)* \\
& **m/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m* \\
& **3*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n \\
& **3 + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675* \\
& m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n* \\
& **2 + 15*n + 1) + A*b*c^{**3}*x*x^{**n}*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m \\
& **4*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n \\
& + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 1 \\
& 5*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + \\
& 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 3*A*b*c^{**2}*d*m^{**5}*x \\
& *x^{**2}*n*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + \\
& 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n \\
& **4 + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 5 \\
& 48*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + \\
& 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 39*A*b*c^{**2}*d*m^{**4}*n*x*x^{**2}*n*(e*x)^{**m}/(\\
& m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n \\
& **3 + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} \\
& + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n* \\
& **3 + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + \\
& 15*n + 1) + 15*A*b*c^{**2}*d*m^{**4}*x*x^{**2}*n*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m \\
& **5 + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + \\
& 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150* \\
& m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m \\
& *n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 177*A*b*c \\
& **2*d*m^{**3}*n^{**2}*x*x^{**2}*n*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n* \\
& **2 + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20* \\
& m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} \\
& + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n \\
& **5 + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 156*A*b*c^{**2}*d*m^{**3}*n*x*x \\
& **2*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15 \\
& *m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{** \\
& 4 + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548 \\
& *m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 22 \\
& 5*n^{**3} + 85*n^{**2} + 15*n + 1) + 30*A*b*c^{**2}*d*m^{**3}*x*x^{**2}*n*(e*x)^{**m}/(m^{**6}
\end{aligned}$$

$$\begin{aligned}
& + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 \\
& + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 \\
& + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 \\
& + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 321A^3B^2C^2D^2m^2n^3 \\
& \times x^2(2n)(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 \\
& + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 \\
& + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn \\
& + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 531A^3B^2C^2D^2m^2n^3 \\
& \times x^2(2n)(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 \\
& + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 \\
& + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120 \\
& n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 234A^3B^2C^2D^2m^2n^3 \\
& \times x^2(2n)(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 \\
& + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 \\
& + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120 \\
& n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 30A^3B^2C^2D^2m^2n^3 \\
& \times x^2(2n)(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 \\
& + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n \\
& + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 \\
& + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 180A^3B^2C^2D^2m^2n^3 \\
& \times x^2(2n)(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 \\
& + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150 \\
& m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 \\
& + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 642A^3B^2C^2D^2m^2n^3 \\
& \times x^2(2n)(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 \\
& + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 \\
& + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 \\
& + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 531A^3B^2C^2D^2m^2n^3 \\
& \times x^2(2n)(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 \\
& + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 \\
& + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 \\
& + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 156A^3B^2C^2D^2m^2n^3 \\
& \times x^2(2n)(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 \\
& + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n \\
& + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 \\
& + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 15A^3B^2C^2D^2m^2n^3 \\
& \times x^2(2n)(e^x)^m / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 \\
& + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n +
\end{aligned}$$

$$\begin{aligned}
& 15m^{**2} + 120m*n^{**5} + 548m*n^{**4} + 675m*n^{**3} + 340m*n^{**2} + 75m*n + 6m \\
& + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 180A*b*c^{**2}*d*n^{**} \\
& 4*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**6} + 15m^{**5}*n + 6m^{**5} + 85m^{**4}*n^{**2} + 75m^{**4}*n \\
& + 15m^{**4} + 225m^{**3}*n^{**3} + 340m^{**3}*n^{**2} + 150m^{**3}*n + 20m^{**3} + 274m^{**} \\
& 2*n^{**4} + 675m^{**2}*n^{**3} + 510m^{**2}*n^{**2} + 150m^{**2}*n + 15m^{**2} + 120m*n^{**5} \\
& + 548m*n^{**4} + 675m*n^{**3} + 340m*n^{**2} + 75m*n + 6m + 120n^{**5} + 274n^{**4} \\
& + 225n^{**3} + 85n^{**2} + 15n + 1) + 321A*b*c^{**2}*d*n^{**3}*x*x^{**}(2*n)*(e*x)^{**} \\
& /(m^{**6} + 15m^{**5}*n + 6m^{**5} + 85m^{**4}*n^{**2} + 75m^{**4}*n + 15m^{**4} + 225m^{**3} \\
& *n^{**3} + 340m^{**3}*n^{**2} + 150m^{**3}*n + 20m^{**3} + 274m^{**2}*n^{**4} + 675m^{**2}*n^{**} \\
& 3 + 510m^{**2}*n^{**2} + 150m^{**2}*n + 15m^{**2} + 120m*n^{**5} + 548m*n^{**4} + 675m* \\
& n^{**3} + 340m*n^{**2} + 75m*n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} \\
& + 15n + 1) + 177A*b*c^{**2}*d*n^{**2}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**6} + 15m^{**5}*n + \\
& 6m^{**5} + 85m^{**4}*n^{**2} + 75m^{**4}*n + 15m^{**4} + 225m^{**3}*n^{**3} + 340m^{**3}*n^{**2} \\
& + 150m^{**3}*n + 20m^{**3} + 274m^{**2}*n^{**4} + 675m^{**2}*n^{**3} + 510m^{**2}*n^{**2} + 1 \\
& 50m^{**2}*n + 15m^{**2} + 120m*n^{**5} + 548m*n^{**4} + 675m*n^{**3} + 340m*n^{**2} + 7 \\
& 5m*n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 39A*b \\
& *c^{**2}*d*n*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**6} + 15m^{**5}*n + 6m^{**5} + 85m^{**4}*n^{**2} + 7 \\
& 5m^{**4}*n + 15m^{**4} + 225m^{**3}*n^{**3} + 340m^{**3}*n^{**2} + 150m^{**3}*n + 20m^{**3} + \\
& 274m^{**2}*n^{**4} + 675m^{**2}*n^{**3} + 510m^{**2}*n^{**2} + 150m^{**2}*n + 15m^{**2} + 120 \\
& *m*n^{**5} + 548m*n^{**4} + 675m*n^{**3} + 340m*n^{**2} + 75m*n + 6m + 120n^{**5} + \\
& 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 3A*b*c^{**2}*d*x*x^{**}(2*n)*(e*x)^{**} \\
& m/(m^{**6} + 15m^{**5}*n + 6m^{**5} + 85m^{**4}*n^{**2} + 75m^{**4}*n + 15m^{**4} + 225m^{**} \\
& 3*n^{**3} + 340m^{**3}*n^{**2} + 150m^{**3}*n + 20m^{**3} + 274m^{**2}*n^{**4} + 675m^{**2}*n^{**} \\
& *3 + 510m^{**2}*n^{**2} + 150m^{**2}*n + 15m^{**2} + 120m*n^{**5} + 548m*n^{**4} + 675m* \\
& n^{**3} + 340m*n^{**2} + 75m*n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**} \\
& 2 + 15n + 1) + 3A*b*c*d^{**2}*m^{**5}*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**6} + 15m^{**5}*n + 6 \\
& m^{**5} + 85m^{**4}*n^{**2} + 75m^{**4}*n + 15m^{**4} + 225m^{**3}*n^{**3} + 340m^{**3}*n^{**2} \\
& + 150m^{**3}*n + 20m^{**3} + 274m^{**2}*n^{**4} + 675m^{**2}*n^{**3} + 510m^{**2}*n^{**2} + 15 \\
& 0m^{**2}*n + 15m^{**2} + 120m*n^{**5} + 548m*n^{**4} + 675m*n^{**3} + 340m*n^{**2} + 75 \\
& *m*n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 36A*b* \\
& c*d^{**2}*m^{**4}*n*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**6} + 15m^{**5}*n + 6m^{**5} + 85m^{**4}*n^{**2} \\
& + 75m^{**4}*n + 15m^{**4} + 225m^{**3}*n^{**3} + 340m^{**3}*n^{**2} + 150m^{**3}*n + 20m* \\
& *3 + 274m^{**2}*n^{**4} + 675m^{**2}*n^{**3} + 510m^{**2}*n^{**2} + 150m^{**2}*n + 15m^{**2} + \\
& 120m*n^{**5} + 548m*n^{**4} + 675m*n^{**3} + 340m*n^{**2} + 75m*n + 6m + 120n^{**} \\
& 5 + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 15A*b*c*d^{**2}*m^{**4}*x*x^{**}(3* \\
& n)*(e*x)^{**m}/(m^{**6} + 15m^{**5}*n + 6m^{**5} + 85m^{**4}*n^{**2} + 75m^{**4}*n + 15m^{**4} \\
& + 225m^{**3}*n^{**3} + 340m^{**3}*n^{**2} + 150m^{**3}*n + 20m^{**3} + 274m^{**2}*n^{**4} + 6 \\
& 75m^{**2}*n^{**3} + 510m^{**2}*n^{**2} + 150m^{**2}*n + 15m^{**2} + 120m*n^{**5} + 548m*n* \\
& *4 + 675m*n^{**3} + 340m*n^{**2} + 75m*n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**} \\
& 3 + 85n^{**2} + 15n + 1) + 147A*b*c*d^{**2}*m^{**3}*n^{**2}*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**} \\
& 6 + 15m^{**5}*n + 6m^{**5} + 85m^{**4}*n^{**2} + 75m^{**4}*n + 15m^{**4} + 225m^{**3}*n^{**3} \\
& + 340m^{**3}*n^{**2} + 150m^{**3}*n + 20m^{**3} + 274m^{**2}*n^{**4} + 675m^{**2}*n^{**3} + 5 \\
& 10m^{**2}*n^{**2} + 150m^{**2}*n + 15m^{**2} + 120m*n^{**5} + 548m*n^{**4} + 675m*n^{**3} \\
& + 340m*n^{**2} + 75m*n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15 \\
& *n + 1) + 144A*b*c*d^{**2}*m^{**3}*n*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**6} + 15m^{**5}*n + 6m
\end{aligned}$$

$$\begin{aligned}
& **5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + \\
& 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150* \\
& m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m \\
& *n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 30*A*b*c* \\
& d**2*m**3*x*x**(3*n)*(e*x)**/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 7 \\
& 5*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + \\
& 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120 \\
& *m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + \\
& 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 234*A*b*c*d**2*m**2*n**3*x*x** \\
& (3*n)*(e*x)**/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m \\
& *4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + \\
& 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m \\
& n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n \\
& **3 + 85*n**2 + 15*n + 1) + 441*A*b*c*d**2*m**2*n**2*x*x**(3*n)*(e*x)**/(m \\
& **6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n* \\
& *3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + \\
& 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n** \\
& 3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + \\
& 15*n + 1) + 216*A*b*c*d**2*m**2*n*x*x**(3*n)*(e*x)**/(m**6 + 15*m**5*n + 6 \\
& *m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 \\
& + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 15 \\
& 0*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75 \\
& *m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 30*A*b* \\
& c*d**2*m**2*x*x**(3*n)*(e*x)**/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + \\
& 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 \\
& + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 1 \\
& 20*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 \\
& + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 120*A*b*c*d**2*m*n**4*x*x** \\
& (3*n)*(e*x)**/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m** \\
& 4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + \\
& 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n \\
& **4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n* \\
& *3 + 85*n**2 + 15*n + 1) + 468*A*b*c*d**2*m*n**3*x*x**(3*n)*(e*x)**/(m**6 \\
& + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + \\
& 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510 \\
& *m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + \\
& 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n \\
& + 1) + 441*A*b*c*d**2*m*n**2*x*x**(3*n)*(e*x)**/(m**6 + 15*m**5*n + 6*m** \\
& 5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 15 \\
& 0*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m* \\
& *2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n \\
& + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 144*A*b*c*d \\
& **2*m*n*x*x**(3*n)*(e*x)**/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75* \\
& m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 2 \\
& 74*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m
\end{aligned}$$

$$\begin{aligned}
& *n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} \\
& + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 15*A*b*c*d^{**2}*m*x*x^{**3}*n*(e*x)^* \\
& *m/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3} \\
& *n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} \\
& + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} \\
& + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n \\
& + 1) + 120*A*b*c*d^{**2}*n^{**4}*x*x^{**3}*n*(e*x)^{**3}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} \\
& + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3} \\
& *n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} \\
& + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} \\
& + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 234*A*b*c*d^{**2}*n^{**3}*x*x^{**3}*n*(e*x)^{**2}/(m^{**6} + 15*m^{**5} \\
& *n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3} \\
& *n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} \\
& + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} \\
& + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 147*A*b*c*d^{**2}*n^{**2}*x*x^{**3}*n*(e*x)^{**3}/(m^{**6} + 15*m^{**5} \\
& *n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3} \\
& *n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} \\
& + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} \\
& + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 36*A*b*c*d^{**2}*n*x*x^{**3}*n*(e*x)^{**2}/(m^{**6} + 15 \\
& *m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340 \\
& *m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2} \\
& *n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n \\
& + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 3*A*b*c*d^{**2}*x*x^{**3} \\
& *n*(e*x)^{**2}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225 \\
& *m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} \\
& + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340 \\
& *m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + A*b*d^{**3} \\
& *m^{**5}*x*x^{**4}*n*(e*x)^{**3}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15 \\
& *m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675 \\
& *m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675 \\
& *m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n \\
& + 1) + 11*A*b*d^{**3}*m^{**4}*x*x^{**4}*n*(e*x)^{**2}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4} \\
& *n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} \\
& + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} \\
& + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85 \\
& *n^{**2} + 15*n + 1) + 5*A*b*d^{**3}*m^{**4}*x*x^{**4}*n*(e*x)^{**2}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85 \\
& *m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20 \\
& *m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120 \\
& *m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225 \\
& *n^{**3} + 85*n^{**2} + 15*n + 1) + 41*A*b*d^{**3}*m^{**3}*n^{**2}*x*x^{**4}*n*(e*x)^{**3}/(m^{**6} + 15 \\
& *m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n +
\end{aligned}$$

$$\begin{aligned}
& 2n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m^{*}n^{**5} + 548m^{*}n^{**4} + 6 \\
& 75m^{*}n^{**3} + 340m^{*}n^{**2} + 75m^{*}n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85 \\
& n^{**2} + 15n + 1) + 71B^{*}a^{*}c^{*}c^{*}3m^{**3}n^{**2}x^{*}x^{*}n^{*}(e^{*}x)^{**m}/(m^{**6} + 15m^{**5}n \\
& + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n \\
& **2 + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} \\
& + 150m^{**2}n + 15m^{**2} + 120m^{*}n^{**5} + 548m^{*}n^{**4} + 675m^{*}n^{**3} + 340m^{*}n^{**2} \\
& + 75m^{*}n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 56 \\
& B^{*}a^{*}c^{*}c^{*}3m^{**3}n^{*}x^{*}x^{*}n^{*}(e^{*}x)^{**m}/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + \\
& 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} \\
& + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 1 \\
& 20m^{*}n^{**5} + 548m^{*}n^{**4} + 675m^{*}n^{**3} + 340m^{*}n^{**2} + 75m^{*}n + 6m + 120n^{**5} \\
& + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 10B^{*}a^{*}c^{*}c^{*}3m^{**3}x^{*}x^{*}n^{*}(e^{*}x) \\
& **m/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m \\
& **3n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n \\
& n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m^{*}n^{**5} + 548m^{*}n^{**4} + 675 \\
& *m^{*}n^{**3} + 340m^{*}n^{**2} + 75m^{*}n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n \\
& **2 + 15n + 1) + 154B^{*}a^{*}c^{*}c^{*}3m^{**2}n^{**3}x^{*}x^{*}n^{*}(e^{*}x)^{**m}/(m^{**6} + 15m^{**5}n \\
& + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{*} \\
& **2 + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + \\
& 150m^{**2}n + 15m^{**2} + 120m^{*}n^{**5} + 548m^{*}n^{**4} + 675m^{*}n^{**3} + 340m^{*}n^{**2} + \\
& 75m^{*}n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 213 \\
& B^{*}a^{*}c^{*}c^{*}3m^{**2}n^{**2}x^{*}x^{*}n^{*}(e^{*}x)^{**m}/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{** \\
& 2 + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m \\
& **3 + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} \\
& + 120m^{*}n^{**5} + 548m^{*}n^{**4} + 675m^{*}n^{**3} + 340m^{*}n^{**2} + 75m^{*}n + 6m + 120n^{*} \\
& **5 + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 84B^{*}a^{*}c^{*}c^{*}3m^{**2}n^{*}x^{*}x^{*}n^{*} \\
& (e^{*}x)^{**m}/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + \\
& 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675 \\
& m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m^{*}n^{**5} + 548m^{*}n^{**4} \\
& + 675m^{*}n^{**3} + 340m^{*}n^{**2} + 75m^{*}n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + \\
& 85n^{**2} + 15n + 1) + 10B^{*}a^{*}c^{*}c^{*}3m^{**2}x^{*}x^{*}n^{*}(e^{*}x)^{**m}/(m^{**6} + 15m^{**5}n + \\
& 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{** \\
& 2 + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + \\
& 150m^{**2}n + 15m^{**2} + 120m^{*}n^{**5} + 548m^{*}n^{**4} + 675m^{*}n^{**3} + 340m^{*}n^{**2} + \\
& 75m^{*}n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 120B \\
& *a^{*}c^{*}c^{*}3m^{*}n^{**4}x^{*}x^{*}n^{*}(e^{*}x)^{**m}/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + \\
& 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} \\
& + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 12 \\
& 0m^{*}n^{**5} + 548m^{*}n^{**4} + 675m^{*}n^{**3} + 340m^{*}n^{**2} + 75m^{*}n + 6m + 120n^{**5} + \\
& 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 308B^{*}a^{*}c^{*}c^{*}3m^{*}n^{**3}x^{*}x^{*}n^{*}(e^{*} \\
& x)^{**m}/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225 \\
& m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{** \\
& 2n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m^{*}n^{**5} + 548m^{*}n^{**4} + 6 \\
& 75m^{*}n^{**3} + 340m^{*}n^{**2} + 75m^{*}n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85 \\
& n^{**2} + 15n + 1) + 213B^{*}a^{*}c^{*}c^{*}3m^{*}n^{**2}x^{*}x^{*}n^{*}(e^{*}x)^{**m}/(m^{**6} + 15m^{**5}n +
\end{aligned}$$

$$\begin{aligned}
& 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} \\
& + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + \\
& + 150m^{**2}n + 15m^{**2} + 120m^{**n}n^{**5} + 548m^{**n}n^{**4} + 675m^{**n}n^{**3} + 340m^{**n}n^{**2} + \\
& + 75m^{**n} + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 56B^* \\
& a^*c^{**3}m^{**n}x^{**n}(e^x)^{**m}/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n \\
& + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 27 \\
& 4m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m^{**n} \\
& n^{**5} + 548m^{**n}n^{**4} + 675m^{**n}n^{**3} + 340m^{**n}n^{**2} + 75m^{**n} + 6m + 120n^{**5} + 274 \\
& n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 5B^*a^*c^{**3}m^{**n}x^{**n}(e^x)^{**m}/(m^{**6} \\
& + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} \\
& + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 51 \\
& 0m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m^{**n}n^{**5} + 548m^{**n}n^{**4} + 675m^{**n}n^{**3} + \\
& + 340m^{**n}n^{**2} + 75m^{**n} + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n \\
& + 1) + 120B^*a^*c^{**3}n^{**4}x^{**n}(e^x)^{**m}/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} \\
& + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n \\
& + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + \\
& + 15m^{**2} + 120m^{**n}n^{**5} + 548m^{**n}n^{**4} + 675m^{**n}n^{**3} + 340m^{**n}n^{**2} + 75m^{**n} + 6m \\
& + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 154B^*a^*c^{**3}n^{**3}x^{**n} \\
& (e^x)^{**m}/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} \\
& + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} \\
& + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m^{**n}n^{**5} + 548m^{**n}n^{**4} \\
& + 675m^{**n}n^{**3} + 340m^{**n}n^{**2} + 75m^{**n} + 6m + 120n^{**5} + 274n^{**4} + 225 \\
& n^{**3} + 85n^{**2} + 15n + 1) + 71B^*a^*c^{**3}n^{**2}x^{**n}(e^x)^{**m}/(m^{**6} + 15m^{**5}n \\
& + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} \\
& + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} \\
& + 150m^{**2}n + 15m^{**2} + 120m^{**n}n^{**5} + 548m^{**n}n^{**4} + 675m^{**n}n^{**3} + 340m^{**n} \\
& n^{**2} + 75m^{**n} + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) \\
& + 14B^*a^*c^{**3}n^{**n}x^{**n}(e^x)^{**m}/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + \\
& + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} \\
& + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m^{**n}n^{**5} \\
& + 548m^{**n}n^{**4} + 675m^{**n}n^{**3} + 340m^{**n}n^{**2} + 75m^{**n} + 6m + 120n^{**5} \\
& + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + B^*a^*c^{**3}x^{**n}(e^x)^{**m}/(m^{**6} \\
& + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} \\
& + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 5 \\
& 10m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m^{**n}n^{**5} + 548m^{**n}n^{**4} + 675m^{**n}n^{**3} \\
& + 340m^{**n}n^{**2} + 75m^{**n} + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15 \\
& n + 1) + 3B^*a^*c^{**2}d^*m^{**5}x^{**n}(2n)^{**m}/(m^{**6} + 15m^{**5}n + 6m^{**5} \\
& + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n \\
& + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2} \\
& n + 15m^{**2} + 120m^{**n}n^{**5} + 548m^{**n}n^{**4} + 675m^{**n}n^{**3} + 340m^{**n}n^{**2} + 75m^{**n} + \\
& + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 39B^*a^*c^{**2}d^* \\
& m^{**4}n^{**n}x^{**n}(2n)^{**m}/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n \\
& + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 2 \\
& 74m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m^{**n} \\
& n^{**5} + 548m^{**n}n^{**4} + 675m^{**n}n^{**3} + 340m^{**n}n^{**2} + 75m^{**n} + 6m + 120n^{**5} + 27
\end{aligned}$$

$$\begin{aligned}
& 4n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 15B*a*c^{**2}*d*m^{**4}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**6} + 15m^{**5}*n + 6m^{**5} + 85m^{**4}*n^{**2} + 75m^{**4}*n + 15m^{**4} + 225 \\
& *m^{**3}*n^{**3} + 340m^{**3}*n^{**2} + 150m^{**3}*n + 20m^{**3} + 274m^{**2}*n^{**4} + 675m^{**2}*n^{**3} + 510m^{**2}*n^{**2} + 150m^{**2}*n + 15m^{**2} + 120m*n^{**5} + 548m*n^{**4} + 6 \\
& 75m*n^{**3} + 340m*n^{**2} + 75m*n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85 \\
& *n^{**2} + 15n + 1) + 177B*a*c^{**2}*d*m^{**3}*n^{**2}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**6} + 15 \\
& *m^{**5}*n + 6m^{**5} + 85m^{**4}*n^{**2} + 75m^{**4}*n + 15m^{**4} + 225m^{**3}*n^{**3} + 340 \\
& *m^{**3}*n^{**2} + 150m^{**3}*n + 20m^{**3} + 274m^{**2}*n^{**4} + 675m^{**2}*n^{**3} + 510m^{**2}*n^{**2} + 150m^{**2}*n + 15m^{**2} + 120m*n^{**5} + 548m*n^{**4} + 675m*n^{**3} + 340 \\
& m*n^{**2} + 75m*n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1 \\
&) + 156B*a*c^{**2}*d*m^{**3}*n*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**6} + 15m^{**5}*n + 6m^{**5} + \\
& 85m^{**4}*n^{**2} + 75m^{**4}*n + 15m^{**4} + 225m^{**3}*n^{**3} + 340m^{**3}*n^{**2} + 150m* \\
& *3*n + 20m^{**3} + 274m^{**2}*n^{**4} + 675m^{**2}*n^{**3} + 510m^{**2}*n^{**2} + 150m^{**2}*n \\
& + 15m^{**2} + 120m*n^{**5} + 548m*n^{**4} + 675m*n^{**3} + 340m*n^{**2} + 75m*n + 6 \\
& *m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 30B*a*c^{**2}*d*m \\
& **3*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**6} + 15m^{**5}*n + 6m^{**5} + 85m^{**4}*n^{**2} + 75m^{**4} \\
& *n + 15m^{**4} + 225m^{**3}*n^{**3} + 340m^{**3}*n^{**2} + 150m^{**3}*n + 20m^{**3} + 274m \\
& **2*n^{**4} + 675m^{**2}*n^{**3} + 510m^{**2}*n^{**2} + 150m^{**2}*n + 15m^{**2} + 120m*n^{** \\
& 5 + 548m*n^{**4} + 675m*n^{**3} + 340m*n^{**2} + 75m*n + 6m + 120n^{**5} + 274n* \\
& **4 + 225n^{**3} + 85n^{**2} + 15n + 1) + 321B*a*c^{**2}*d*m^{**2}*n^{**3}*x*x^{**}(2*n)*(\\
& e*x)^{**m}/(m^{**6} + 15m^{**5}*n + 6m^{**5} + 85m^{**4}*n^{**2} + 75m^{**4}*n + 15m^{**4} + 2 \\
& 25m^{**3}*n^{**3} + 340m^{**3}*n^{**2} + 150m^{**3}*n + 20m^{**3} + 274m^{**2}*n^{**4} + 675m \\
& **2*n^{**3} + 510m^{**2}*n^{**2} + 150m^{**2}*n + 15m^{**2} + 120m*n^{**5} + 548m*n^{**4} + \\
& 675m*n^{**3} + 340m*n^{**2} + 75m*n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + \\
& 85n^{**2} + 15n + 1) + 531B*a*c^{**2}*d*m^{**2}*n^{**2}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**6} + \\
& 15m^{**5}*n + 6m^{**5} + 85m^{**4}*n^{**2} + 75m^{**4}*n + 15m^{**4} + 225m^{**3}*n^{**3} + 3 \\
& 40m^{**3}*n^{**2} + 150m^{**3}*n + 20m^{**3} + 274m^{**2}*n^{**4} + 675m^{**2}*n^{**3} + 510m \\
& **2*n^{**2} + 150m^{**2}*n + 15m^{**2} + 120m*n^{**5} + 548m*n^{**4} + 675m*n^{**3} + 34 \\
& 0m*n^{**2} + 75m*n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + \\
& 1) + 234B*a*c^{**2}*d*m^{**2}*n*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**6} + 15m^{**5}*n + 6m^{**5} \\
& + 85m^{**4}*n^{**2} + 75m^{**4}*n + 15m^{**4} + 225m^{**3}*n^{**3} + 340m^{**3}*n^{**2} + 150* \\
& m^{**3}*n + 20m^{**3} + 274m^{**2}*n^{**4} + 675m^{**2}*n^{**3} + 510m^{**2}*n^{**2} + 150m^{**2} \\
& *n + 15m^{**2} + 120m*n^{**5} + 548m*n^{**4} + 675m*n^{**3} + 340m*n^{**2} + 75m*n + \\
& 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 30B*a*c^{**2}*d \\
& *m^{**2}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**6} + 15m^{**5}*n + 6m^{**5} + 85m^{**4}*n^{**2} + 75m* \\
& **4*n + 15m^{**4} + 225m^{**3}*n^{**3} + 340m^{**3}*n^{**2} + 150m^{**3}*n + 20m^{**3} + 274 \\
& *m^{**2}*n^{**4} + 675m^{**2}*n^{**3} + 510m^{**2}*n^{**2} + 150m^{**2}*n + 15m^{**2} + 120m*n \\
& **5 + 548m*n^{**4} + 675m*n^{**3} + 340m*n^{**2} + 75m*n + 6m + 120n^{**5} + 274* \\
& n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 180B*a*c^{**2}*d*m*n^{**4}*x*x^{**}(2*n)*(e \\
& *x)^{**m}/(m^{**6} + 15m^{**5}*n + 6m^{**5} + 85m^{**4}*n^{**2} + 75m^{**4}*n + 15m^{**4} + 22 \\
& 5m^{**3}*n^{**3} + 340m^{**3}*n^{**2} + 150m^{**3}*n + 20m^{**3} + 274m^{**2}*n^{**4} + 675m* \\
& **2*n^{**3} + 510m^{**2}*n^{**2} + 150m^{**2}*n + 15m^{**2} + 120m*n^{**5} + 548m*n^{**4} + \\
& 675m*n^{**3} + 340m*n^{**2} + 75m*n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 8 \\
& 5n^{**2} + 15n + 1) + 642B*a*c^{**2}*d*m*n^{**3}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**6} + 15m \\
& **5*n + 6m^{**5} + 85m^{**4}*n^{**2} + 75m^{**4}*n + 15m^{**4} + 225m^{**3}*n^{**3} + 340m
\end{aligned}$$

$$\begin{aligned}
& **3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2* \\
& n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m* \\
& n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) \\
& + 531*B*a*c**2*d*m*n**2*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85 \\
& *m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3 \\
& *n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + \\
& 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m \\
& + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 156*B*a*c**2*d*m* \\
& n*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n \\
& + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m** \\
& 2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 \\
& + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 \\
& + 225*n**3 + 85*n**2 + 15*n + 1) + 15*B*a*c**2*d*m*x*x**(2*n)*(e*x)**m/(m \\
& *6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n** \\
& 3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + \\
& 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 \\
& + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 1 \\
& 5*n + 1) + 180*B*a*c**2*d*n**4*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m* \\
& *5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 1 \\
& 50*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m \\
& **2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m* \\
& n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 321*B*a*c* \\
& *2*d*n**3*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 7 \\
& 5*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + \\
& 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120 \\
& *m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + \\
& 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 177*B*a*c**2*d*n**2*x*x**(2*n)* \\
& (e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + \\
& 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675* \\
& m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 \\
& + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + \\
& 85*n**2 + 15*n + 1) + 39*B*a*c**2*d*n*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5* \\
& n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3* \\
& n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 \\
& + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 \\
& + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 3* \\
& B*a*c**2*d*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + \\
& 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 \\
& + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 12 \\
& 0*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + \\
& 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 3*B*a*c*d**2*m**5*x*x**(3*n)*(\\
& e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 2 \\
& 25*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m \\
& **2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + \\
& 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 +
\end{aligned}$$

$$\begin{aligned}
& m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m*n^{**5} + 548m*n^{**4} + 675m*n^{**3} + \\
& 340m*n^{**2} + 75m*n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n \\
& + 1) + 30B*a*d^{**3}m*n^{**4}x*x^{**}(4n)*(e*x)^{**}/(m^{**6} + 15m^{**5}n + 6m^{**5} + \\
& 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m \\
& **3n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n \\
& + 15m^{**2} + 120m*n^{**5} + 548m*n^{**4} + 675m*n^{**3} + 340m*n^{**2} + 75m*n + \\
& 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 122B*a*d^{**3}m \\
& *n^{**3}x*x^{**}(4n)*(e*x)^{**}/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75m* \\
& **4n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 274 \\
& *m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m*n \\
& **5 + 548m*n^{**4} + 675m*n^{**3} + 340m*n^{**2} + 75m*n + 6m + 120n^{**5} + 274n \\
& **4 + 225n^{**3} + 85n^{**2} + 15n + 1) + 123B*a*d^{**3}m*n^{**2}x*x^{**}(4n)*(e*x \\
&)^{**}/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m \\
& **3n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2} \\
& *n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m*n^{**5} + 548m*n^{**4} + 67 \\
& 5m*n^{**3} + 340m*n^{**2} + 75m*n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n \\
& **2 + 15n + 1) + 44B*a*d^{**3}m*n*x*x^{**}(4n)*(e*x)^{**}/(m^{**6} + 15m^{**5}n + \\
& 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} \\
& + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 1 \\
& 50m^{**2}n + 15m^{**2} + 120m*n^{**5} + 548m*n^{**4} + 675m*n^{**3} + 340m*n^{**2} + 7 \\
& 5m*n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 5B*a*d \\
& **3m*x*x^{**}(4n)*(e*x)^{**}/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75m* \\
& **4n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 27 \\
& 4m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m*n \\
& **5 + 548m*n^{**4} + 675m*n^{**3} + 340m*n^{**2} + 75m*n + 6m + 120n^{**5} + 274 \\
& *n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 30B*a*d^{**3}n^{**4}x*x^{**}(4n)*(e*x)* \\
& *m/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m* \\
& **3n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n \\
& **3 + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m*n^{**5} + 548m*n^{**4} + 675m \\
& *n^{**3} + 340m*n^{**2} + 75m*n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n* \\
& **2 + 15n + 1) + 61B*a*d^{**3}n^{**3}x*x^{**}(4n)*(e*x)^{**}/(m^{**6} + 15m^{**5}n + 6 \\
& m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} \\
& + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 15 \\
& 0m^{**2}n + 15m^{**2} + 120m*n^{**5} + 548m*n^{**4} + 675m*n^{**3} + 340m*n^{**2} + 75 \\
& *m*n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 41B*a*d \\
& **3n^{**2}x*x^{**}(4n)*(e*x)^{**}/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 7 \\
& 5m^{**4}n + 15m^{**4} + 225m^{**3}n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + \\
& 274m^{**2}n^{**4} + 675m^{**2}n^{**3} + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120 \\
& *m*n^{**5} + 548m*n^{**4} + 675m*n^{**3} + 340m*n^{**2} + 75m*n + 6m + 120n^{**5} + \\
& 274n^{**4} + 225n^{**3} + 85n^{**2} + 15n + 1) + 11B*a*d^{**3}n*x*x^{**}(4n)*(e*x)* \\
& *m/(m^{**6} + 15m^{**5}n + 6m^{**5} + 85m^{**4}n^{**2} + 75m^{**4}n + 15m^{**4} + 225m* \\
& **3n^{**3} + 340m^{**3}n^{**2} + 150m^{**3}n + 20m^{**3} + 274m^{**2}n^{**4} + 675m^{**2}n \\
& **3 + 510m^{**2}n^{**2} + 150m^{**2}n + 15m^{**2} + 120m*n^{**5} + 548m*n^{**4} + 675m \\
& *n^{**3} + 340m*n^{**2} + 75m*n + 6m + 120n^{**5} + 274n^{**4} + 225n^{**3} + 85n* \\
& **2 + 15n + 1) + B*a*d^{**3}x*x^{**}(4n)*(e*x)^{**}/(m^{**6} + 15m^{**5}n + 6m^{**5} +
\end{aligned}$$

$$\begin{aligned}
& 85m^{4n^2} + 75m^{4n} + 15m^4 + 225m^{3n^3} + 340m^{3n^2} + 150m^{3n} + 20m^3 + 274m^{2n^4} + 675m^{2n^3} + 510m^{2n^2} + 150m^{2n} \\
& + 15m^2 + 120m^{n^5} + 548m^{n^4} + 675m^{n^3} + 340m^{n^2} + 75m^n + 6 \\
& * m + 120n^{n^5} + 274n^{n^4} + 225n^{n^3} + 85n^{n^2} + 15n + 1) + B*b*c^{3m^{5x}} \\
& * x^{(2n)} * (e*x)^m / (m^6 + 15m^{5n} + 6m^5 + 85m^{4n^2} + 75m^{4n} + \\
& 15m^4 + 225m^{3n^3} + 340m^{3n^2} + 150m^{3n} + 20m^3 + 274m^{2n^4} \\
& **4 + 675m^{2n^3} + 510m^{2n^2} + 150m^{2n} + 15m^2 + 120m^{n^5} + 5 \\
& 48m^{n^4} + 675m^{n^3} + 340m^{n^2} + 75m^n + 6m + 120n^{n^5} + 274n^{n^4} + \\
& 225n^{n^3} + 85n^{n^2} + 15n + 1) + 13*B*b*c^{3m^{4n}} * x^{x^{(2n)}} * (e*x)^m / (m \\
& * 6 + 15m^{5n} + 6m^5 + 85m^{4n^2} + 75m^{4n} + 15m^4 + 225m^{3n^3} \\
& 3 + 340m^{3n^2} + 150m^{3n} + 20m^3 + 274m^{2n^4} + 675m^{2n^3} + \\
& 510m^{2n^2} + 150m^{2n} + 15m^2 + 120m^{n^5} + 548m^{n^4} + 675m^{n^3} \\
& + 340m^{n^2} + 75m^n + 6m + 120n^{n^5} + 274n^{n^4} + 225n^{n^3} + 85n^{n^2} + 1 \\
& 5n + 1) + 5*B*b*c^{3m^{4x}} * x^{x^{(2n)}} * (e*x)^m / (m^6 + 15m^{5n} + 6m^5 + \\
& 85m^{4n^2} + 75m^{4n} + 15m^4 + 225m^{3n^3} + 340m^{3n^2} + 150m \\
& **3n + 20m^3 + 274m^{2n^4} + 675m^{2n^3} + 510m^{2n^2} + 150m^{2n} \\
& n + 15m^2 + 120m^{n^5} + 548m^{n^4} + 675m^{n^3} + 340m^{n^2} + 75m^n + \\
& 6m + 120n^{n^5} + 274n^{n^4} + 225n^{n^3} + 85n^{n^2} + 15n + 1) + 59*B*b*c^{3m^{3n^2}} \\
& * x^{x^{(2n)}} * (e*x)^m / (m^6 + 15m^{5n} + 6m^5 + 85m^{4n^2} + 75 \\
& m^{4n} + 15m^4 + 225m^{3n^3} + 340m^{3n^2} + 150m^{3n} + 20m^3 + 2 \\
& 74m^{2n^4} + 675m^{2n^3} + 510m^{2n^2} + 150m^{2n} + 15m^2 + 120m \\
& * n^5 + 548m^{n^4} + 675m^{n^3} + 340m^{n^2} + 75m^n + 6m + 120n^{n^5} + 27 \\
& 4n^{n^4} + 225n^{n^3} + 85n^{n^2} + 15n + 1) + 52*B*b*c^{3m^{3n}} * x^{x^{(2n)}} * (e \\
& x)^m / (m^6 + 15m^{5n} + 6m^5 + 85m^{4n^2} + 75m^{4n} + 15m^4 + 225 \\
& * m^{3n^3} + 340m^{3n^2} + 150m^{3n} + 20m^3 + 274m^{2n^4} + 675m^{2n^3} \\
& 2n^3 + 510m^{2n^2} + 150m^{2n} + 15m^2 + 120m^{n^5} + 548m^{n^4} + 6 \\
& 75m^{n^3} + 340m^{n^2} + 75m^n + 6m + 120n^{n^5} + 274n^{n^4} + 225n^{n^3} + 85 \\
& * n^2 + 15n + 1) + 10*B*b*c^{3m^{3x}} * x^{x^{(2n)}} * (e*x)^m / (m^6 + 15m^{5n} \\
& + 6m^5 + 85m^{4n^2} + 75m^{4n} + 15m^4 + 225m^{3n^3} + 340m^{3n^2} \\
& * 2 + 150m^{3n} + 20m^3 + 274m^{2n^4} + 675m^{2n^3} + 510m^{2n^2} + \\
& 150m^{2n} + 15m^2 + 120m^{n^5} + 548m^{n^4} + 675m^{n^3} + 340m^{n^2} + \\
& 75m^n + 6m + 120n^{n^5} + 274n^{n^4} + 225n^{n^3} + 85n^{n^2} + 15n + 1) + 107* \\
& B*b*c^{3m^{2n^3}} * x^{x^{(2n)}} * (e*x)^m / (m^6 + 15m^{5n} + 6m^5 + 85m^{4n^2} \\
& * n^2 + 75m^{4n} + 15m^4 + 225m^{3n^3} + 340m^{3n^2} + 150m^{3n} + \\
& 20m^3 + 274m^{2n^4} + 675m^{2n^3} + 510m^{2n^2} + 150m^{2n} + 15m \\
& **2 + 120m^{n^5} + 548m^{n^4} + 675m^{n^3} + 340m^{n^2} + 75m^n + 6m + 12 \\
& 0n^{n^5} + 274n^{n^4} + 225n^{n^3} + 85n^{n^2} + 15n + 1) + 177*B*b*c^{3m^{2n^2}} \\
& * x^{x^{(2n)}} * (e*x)^m / (m^6 + 15m^{5n} + 6m^5 + 85m^{4n^2} + 75m^{4n} \\
& + 15m^4 + 225m^{3n^3} + 340m^{3n^2} + 150m^{3n} + 20m^3 + 274m^{2n^2} \\
& * n^4 + 675m^{2n^3} + 510m^{2n^2} + 150m^{2n} + 15m^2 + 120m^{n^5} + \\
& 548m^{n^4} + 675m^{n^3} + 340m^{n^2} + 75m^n + 6m + 120n^{n^5} + 274n^{n^4} \\
& + 225n^{n^3} + 85n^{n^2} + 15n + 1) + 78*B*b*c^{3m^{2n}} * x^{x^{(2n)}} * (e*x)^m / (\\
& m^6 + 15m^{5n} + 6m^5 + 85m^{4n^2} + 75m^{4n} + 15m^4 + 225m^{3n^3} \\
& **3 + 340m^{3n^2} + 150m^{3n} + 20m^3 + 274m^{2n^4} + 675m^{2n^3} \\
& + 510m^{2n^2} + 150m^{2n} + 15m^2 + 120m^{n^5} + 548m^{n^4} + 675m^{n^3}
\end{aligned}$$

$$\begin{aligned}
& *3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + \\
& 15*n + 1) + 10*B*b*c**3*m**2*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m** \\
& 5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 15 \\
& 0*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m* \\
& **2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n \\
& + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 60*B*b*c**3 \\
& *m*n**4*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75* \\
& m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 2 \\
& 74*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m \\
& *n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 27 \\
& 4*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 214*B*b*c**3*m*n**3*x*x**(2*n)*(e \\
& *x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 22 \\
& 5*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m* \\
& **2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + \\
& 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 8 \\
& 5*n**2 + 15*n + 1) + 177*B*b*c**3*m*n**2*x*x**(2*n)*(e*x)**m/(m**6 + 15*m** \\
& 5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m** \\
& 3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n* \\
& **2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n* \\
& **2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + \\
& 52*B*b*c**3*m*n*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n* \\
& **2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20* \\
& m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 \\
& + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n \\
& **5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 5*B*b*c**3*m*x*x**(2*n)*(\\
& e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 2 \\
& 25*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m \\
& **2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + \\
& 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + \\
& 85*n**2 + 15*n + 1) + 60*B*b*c**3*n**4*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5* \\
& n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3* \\
& n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 \\
& + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 \\
& + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 10 \\
& 7*B*b*c**3*n**3*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n* \\
& **2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20* \\
& m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 \\
& + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n \\
& **5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 59*B*b*c**3*n**2*x*x**(2* \\
& n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 \\
& + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 6 \\
& 75*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n* \\
& **4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n** \\
& 3 + 85*n**2 + 15*n + 1) + 13*B*b*c**3*n*x*x**(2*n)*(e*x)**m/(m**6 + 15*m**5 \\
& *n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3
\end{aligned}$$

$$\begin{aligned}
& *n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} \\
& + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} \\
& + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + B \\
& *b*c^{**3}*x*x^{**}(2*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75* \\
& m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 2 \\
& 74*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m \\
& *n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 27 \\
& 4*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 3*B*b*c^{**2}*d*m^{**5}*x*x^{**}(3*n)*(e*x \\
&)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225* \\
& m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2} \\
& *n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 67 \\
& 5*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85* \\
& n^{**2} + 15*n + 1) + 36*B*b*c^{**2}*d*m^{**4}*n*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5} \\
& *n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3} \\
& *n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} \\
& + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} \\
& + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 1 \\
& 5*B*b*c^{**2}*d*m^{**4}*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}* \\
& n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 2 \\
& 0*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m \\
& *2 + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120 \\
& *n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 147*B*b*c^{**2}*d*m^{**3}*n^{**2} \\
& *x*x^{**}(3*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n \\
& + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2} \\
& *n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} \\
& + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} \\
& + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 144*B*b*c^{**2}*d*m^{**3}*n*x*x^{**}(3*n)*(e*x)^{**m} \\
& /m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m \\
& *3*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n \\
& **3 + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675* \\
& m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n \\
& *2 + 15*n + 1) + 30*B*b*c^{**2}*d*m^{**3}*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + \\
& 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} \\
& + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + \\
& 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + \\
& 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 234*B \\
& *b*c^{**2}*d*m^{**2}*n^{**3}*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4} \\
& *n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + \\
& 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15* \\
& m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 1 \\
& 20*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 441*B*b*c^{**2}*d*m^{**2}*n \\
& **2*x*x^{**}(3*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4} \\
& *n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m \\
& **2*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} \\
& + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4}
\end{aligned}$$

$$\begin{aligned}
& *4 + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 216*B*b*c^{**2}*d*m^{**2}*n*x*x^{**3}*n)*(e*x) \\
&)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225* \\
& m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2} \\
& *n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 67 \\
& 5*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85* \\
& n^{**2} + 15*n + 1) + 30*B*b*c^{**2}*d*m^{**2}*x*x^{**3}*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n \\
& + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n \\
& **2 + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} \\
& + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} \\
& + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 120 \\
& *B*b*c^{**2}*d*m*n^{**4}*x*x^{**3}*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4} \\
& *n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + \\
& 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m \\
& **2 + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 12 \\
& 0*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 468*B*b*c^{**2}*d*m*n^{**3}* \\
& x*x^{**3}*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + \\
& 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}* \\
& n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + \\
& 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + \\
& 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 441*B*b*c^{**2}*d*m*n^{**2}*x*x^{**3}*n)*(e*x)^{**m} \\
& /(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3} \\
& *n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{** \\
& 3 + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m* \\
& n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} \\
& + 15*n + 1) + 144*B*b*c^{**2}*d*m*n*x*x^{**3}*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6 \\
& *m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} \\
& + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 15 \\
& 0*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75 \\
& *m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 15*B*b* \\
& c^{**2}*d*m*x*x^{**3}*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75 \\
& *m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + \\
& 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120* \\
& m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 2 \\
& 74*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 120*B*b*c^{**2}*d*n^{**4}*x*x^{**3}*n)*(\\
& e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 2 \\
& 25*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m \\
& **2*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + \\
& 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + \\
& 85*n^{**2} + 15*n + 1) + 234*B*b*c^{**2}*d*n^{**3}*x*x^{**3}*n)*(e*x)^{**m}/(m^{**6} + 15*m* \\
& *5*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m* \\
& *3*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n \\
& **2 + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n \\
& **2 + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + \\
& 147*B*b*c^{**2}*d*n^{**2}*x*x^{**3}*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m* \\
& *4*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n
\end{aligned}$$

$$\begin{aligned}
& + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15 \\
& m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + \\
& 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 36B^2bc^2d^2n^4 \\
& * (3n)(e^x)^2 / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m \\
& m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 \\
& + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548m \\
& n^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225 \\
& n^3 + 85n^2 + 15n + 1) + 3B^2bc^2d^2n^4 * (3n)(e^x)^2 / (m^6 + 15m \\
& m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m \\
& m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 \\
& n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340m \\
& n^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) \\
& + 3B^2bc^2d^2m^5n^4 * (4n)(e^x)^2 / (m^6 + 15m^5n + 6m^5 + 85m^4 \\
& n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + \\
& 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m \\
& m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 1 \\
& 20n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 33B^2bc^2d^2m^4n^4 \\
& * (4n)(e^x)^2 / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + \\
& 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 \\
& n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + \\
& 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + \\
& 225n^3 + 85n^2 + 15n + 1) + 15B^2bc^2d^2m^4n^4 * (4n)(e^x)^2 / (m \\
& m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 \\
& + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + \\
& 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 \\
& + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + \\
& 15n + 1) + 123B^2bc^2d^2m^3n^4 * (4n)(e^x)^2 / (m^6 + 15m^5n \\
& + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 \\
& + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + \\
& 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + \\
& 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 132B^2 \\
& bc^2d^2m^3n^4 * (4n)(e^x)^2 / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 \\
& n^2 + 75m^4n + 15m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 2 \\
& 0m^3 + 274m^2n^4 + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 \\
& + 120mn^5 + 548mn^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120 \\
& n^5 + 274n^4 + 225n^3 + 85n^2 + 15n + 1) + 30B^2bc^2d^2m^3n^4 \\
& * (4n)(e^x)^2 / (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m \\
& m^4 + 225m^3n^3 + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 \\
& + 675m^2n^3 + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548m \\
& n^4 + 675mn^3 + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225 \\
& n^3 + 85n^2 + 15n + 1) + 183B^2bc^2d^2m^2n^3 * (4n)(e^x)^2 / \\
& (m^6 + 15m^5n + 6m^5 + 85m^4n^2 + 75m^4n + 15m^4 + 225m^3n^3 \\
& + 340m^3n^2 + 150m^3n + 20m^3 + 274m^2n^4 + 675m^2n^3 \\
& + 510m^2n^2 + 150m^2n + 15m^2 + 120mn^5 + 548mn^4 + 675mn^3 \\
& + 340mn^2 + 75mn + 6m + 120n^5 + 274n^4 + 225n^3 + 85n^2
\end{aligned}$$

$$\begin{aligned}
& n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + \\
& 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + \\
& 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 123*B*b*c*d^{**2}*n^{**2}*x*x^{**}(4*n)*(e*x)^{**m}/(\\
& m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n \\
& **3 + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} \\
& + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n \\
& *3 + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + \\
& 15*n + 1) + 33*B*b*c*d^{**2}*n*x*x^{**}(4*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} \\
& + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150 \\
& *m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{** \\
& 2*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n \\
& + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 3*B*b*c*d^{**2} \\
& *x*x^{**}(4*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n \\
& + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2} \\
& *n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + \\
& 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} \\
& + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + B*b*d^{**3}*m^{**5}*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**6} \\
& + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + \\
& 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510 \\
& *m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + \\
& 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n \\
& + 1) + 10*B*b*d^{**3}*m^{**4}*n*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + \\
& 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m \\
& **3*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2} \\
& *n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + \\
& 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 5*B*b*d^{**3}*m^{** \\
& 4}*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n \\
& + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{** \\
& 2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} \\
& + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} \\
& + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 35*B*b*d^{**3}*m^{**3}*n^{**2}*x*x^{**}(5*n)*(e*x)^{ \\
& **m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m \\
& *3*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n \\
& **3 + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675* \\
& m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{ \\
& **2} + 15*n + 1) + 40*B*b*d^{**3}*m^{**3}*n*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + \\
& 6*m^{**5} + 85*m^{**4}*n^{**2} + 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{** \\
& 2} + 150*m^{**3}*n + 20*m^{**3} + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + \\
& 150*m^{**2}*n + 15*m^{**2} + 120*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + \\
& 75*m*n + 6*m + 120*n^{**5} + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 10*B* \\
& b*d^{**3}*m^{**3}*x*x^{**}(5*n)*(e*x)^{**m}/(m^{**6} + 15*m^{**5}*n + 6*m^{**5} + 85*m^{**4}*n^{**2} + \\
& 75*m^{**4}*n + 15*m^{**4} + 225*m^{**3}*n^{**3} + 340*m^{**3}*n^{**2} + 150*m^{**3}*n + 20*m^{**3} \\
& + 274*m^{**2}*n^{**4} + 675*m^{**2}*n^{**3} + 510*m^{**2}*n^{**2} + 150*m^{**2}*n + 15*m^{**2} + 1 \\
& 20*m*n^{**5} + 548*m*n^{**4} + 675*m*n^{**3} + 340*m*n^{**2} + 75*m*n + 6*m + 120*n^{**5} \\
& + 274*n^{**4} + 225*n^{**3} + 85*n^{**2} + 15*n + 1) + 50*B*b*d^{**3}*m^{**2}*n^{**3}*x*x^{**}(5
\end{aligned}$$

$$\begin{aligned}
& *n)*(e^x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m** \\
& 4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + \\
& 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n \\
& **4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n* \\
& *3 + 85*n**2 + 15*n + 1) + 105*B*b*d**3*m**2*n**2*x*x**(5*n)*(e^x)**m/(m**6 \\
& + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 \\
& + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 51 \\
& 0*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + \\
& 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15* \\
& n + 1) + 60*B*b*d**3*m**2*n*x*x**(5*n)*(e^x)**m/(m**6 + 15*m**5*n + 6*m**5 \\
& + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150* \\
& m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2 \\
& *n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + \\
& 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 10*B*b*d**3*m \\
& **2*x*x**(5*n)*(e^x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4 \\
& *n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m \\
& **2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n** \\
& 5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n* \\
& *4 + 225*n**3 + 85*n**2 + 15*n + 1) + 24*B*b*d**3*m*n**4*x*x**(5*n)*(e^x)** \\
& m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m** \\
& 3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n* \\
& *3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m \\
& *n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n** \\
& 2 + 15*n + 1) + 100*B*b*d**3*m*n**3*x*x**(5*n)*(e^x)**m/(m**6 + 15*m**5*n + \\
& 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n** \\
& 2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + \\
& 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + \\
& 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 105*B \\
& *b*d**3*m*n**2*x*x**(5*n)*(e^x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n** \\
& 2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m \\
& **3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 \\
& + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n* \\
& *5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 40*B*b*d**3*m*n*x*x**(5*n) \\
& *(e^x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + \\
& 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675 \\
& *m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 \\
& + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 \\
& + 85*n**2 + 15*n + 1) + 5*B*b*d**3*m*x*x**(5*n)*(e^x)**m/(m**6 + 15*m**5*n \\
& + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n* \\
& *2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + \\
& 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + \\
& 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 24*B \\
& *b*d**3*n**4*x*x**(5*n)*(e^x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 \\
& + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m** \\
& 3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 +
\end{aligned}$$


```

120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5
+ 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 50*B*b*d**3*n**3*x*x**(5*n)*
(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 +
225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*
m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4
+ 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 +
85*n**2 + 15*n + 1) + 35*B*b*d**3*n**2*x*x**(5*n)*(e*x)**m/(m**6 + 15*m**5
*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3
*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**
2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**
2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + 1
0*B*b*d**3*n*x*x**(5*n)*(e*x)**m/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2
+ 75*m**4*n + 15*m**4 + 225*m**3*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**
3 + 274*m**2*n**4 + 675*m**2*n**3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 +
120*m*n**5 + 548*m*n**4 + 675*m*n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5
+ 274*n**4 + 225*n**3 + 85*n**2 + 15*n + 1) + B*b*d**3*x*x**(5*n)*(e*x)**m
/(m**6 + 15*m**5*n + 6*m**5 + 85*m**4*n**2 + 75*m**4*n + 15*m**4 + 225*m**3
*n**3 + 340*m**3*n**2 + 150*m**3*n + 20*m**3 + 274*m**2*n**4 + 675*m**2*n**
3 + 510*m**2*n**2 + 150*m**2*n + 15*m**2 + 120*m*n**5 + 548*m*n**4 + 675*m*
n**3 + 340*m*n**2 + 75*m*n + 6*m + 120*n**5 + 274*n**4 + 225*n**3 + 85*n**2
+ 15*n + 1), True))

```

Maxima [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 464 vs. $2(210) = 420$.

Time = 0.24 (sec) , antiderivative size = 464, normalized size of antiderivative = 2.21

$$\begin{aligned}
& \int (ex)^m (a + bx^n) (A + Bx^n) (c + dx^n)^3 dx \\
&= \frac{Bbd^3 e^m x e^{(m \log(x) + 5n \log(x))}}{m + 5n + 1} + \frac{3Bbcd^2 e^m x e^{(m \log(x) + 4n \log(x))}}{m + 4n + 1} + \frac{Bad^3 e^m x e^{(m \log(x) + 4n \log(x))}}{m + 4n + 1} \\
&+ \frac{Abd^3 e^m x e^{(m \log(x) + 4n \log(x))}}{m + 4n + 1} + \frac{3Bbc^2 d e^m x e^{(m \log(x) + 3n \log(x))}}{m + 3n + 1} \\
&+ \frac{3Bacd^2 e^m x e^{(m \log(x) + 3n \log(x))}}{m + 3n + 1} + \frac{3Abcd^2 e^m x e^{(m \log(x) + 3n \log(x))}}{m + 3n + 1} \\
&+ \frac{Aad^3 e^m x e^{(m \log(x) + 3n \log(x))}}{m + 3n + 1} + \frac{Bbc^3 e^m x e^{(m \log(x) + 2n \log(x))}}{m + 2n + 1} \\
&+ \frac{3Bac^2 d e^m x e^{(m \log(x) + 2n \log(x))}}{m + 2n + 1} + \frac{3Abc^2 d e^m x e^{(m \log(x) + 2n \log(x))}}{m + 2n + 1} \\
&+ \frac{3Aacd^2 e^m x e^{(m \log(x) + 2n \log(x))}}{m + 2n + 1} + \frac{Bac^3 e^m x e^{(m \log(x) + n \log(x))}}{m + n + 1} \\
&+ \frac{Abc^3 e^m x e^{(m \log(x) + n \log(x))}}{m + n + 1} + \frac{3Aac^2 d e^m x e^{(m \log(x) + n \log(x))}}{m + n + 1} + \frac{(ex)^{m+1} Aac^3}{e(m+1)}
\end{aligned}$$

[In] integrate((e*x)^m*(a+b*x^n)*(A+B*x^n)*(c+d*x^n)^3,x, algorithm="maxima")

[Out] $B*b*d^3*e^{m*x}*e^{(m*\log(x) + 5*n*\log(x))/(m + 5*n + 1)} + 3*B*b*c*d^2*e^{m*x}*e^{(m*\log(x) + 4*n*\log(x))/(m + 4*n + 1)} + B*a*d^3*e^{m*x}*e^{(m*\log(x) + 4*n*\log(x))/(m + 4*n + 1)} + A*b*d^3*e^{m*x}*e^{(m*\log(x) + 4*n*\log(x))/(m + 4*n + 1)} + 3*B*b*c^2*d*e^{m*x}*e^{(m*\log(x) + 3*n*\log(x))/(m + 3*n + 1)} + 3*B*a*c*d^2*e^{m*x}*e^{(m*\log(x) + 3*n*\log(x))/(m + 3*n + 1)} + 3*A*b*c*d^2*e^{m*x}*e^{(m*\log(x) + 3*n*\log(x))/(m + 3*n + 1)} + A*a*d^3*e^{m*x}*e^{(m*\log(x) + 3*n*\log(x))/(m + 3*n + 1)} + B*b*c^3*e^{m*x}*e^{(m*\log(x) + 2*n*\log(x))/(m + 2*n + 1)} + 3*B*a*c^2*d*e^{m*x}*e^{(m*\log(x) + 2*n*\log(x))/(m + 2*n + 1)} + 3*A*b*c^2*d*e^{m*x}*e^{(m*\log(x) + 2*n*\log(x))/(m + 2*n + 1)} + 3*A*a*c*d^2*e^{m*x}*e^{(m*\log(x) + 2*n*\log(x))/(m + 2*n + 1)} + B*a*c^3*e^{m*x}*e^{(m*\log(x) + n*\log(x))/(m + n + 1)} + A*b*c^3*e^{m*x}*e^{(m*\log(x) + n*\log(x))/(m + n + 1)} + 3*A*a*c^2*d*e^{m*x}*e^{(m*\log(x) + n*\log(x))/(m + n + 1)} + (e*x)^{(m + 1)}*A*a*c^3/(e*(m + 1))$

Giac [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 27992 vs. $2(210) = 420$.

Time = 0.48 (sec) , antiderivative size = 27992, normalized size of antiderivative = 133.30

$$\int (ex)^m (a + bx^n) (A + Bx^n) (c + dx^n)^3 dx = \text{Too large to display}$$

[In] integrate((e*x)^m*(a+b*x^n)*(A+B*x^n)*(c+d*x^n)^3,x, algorithm="giac")

[Out] $(B*b*d^3*m^5*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 10*B*b*d^3*m^4*n*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 35*B*b*d^3*m^3*n^2*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 50*B*b*d^3*m^2*n^3*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 24*B*b*d^3*m*n^4*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*b*c*d^2*m^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + B*a*d^3*m^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + A*b*d^3*m^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + B*b*d^3*m^5*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 33*B*b*c*d^2*m^4*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 11*B*a*d^3*m^4*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 11*A*b*d^3*m^4*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 10*B*b*d^3*m^4*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 123*B*b*c*d^2*m^3*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 41*B*a*d^3*m^3*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 35*B*b*d^3*m^3*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 18*3*B*b*c*d^2*m^2*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 61*B*a*d^3*m^2*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 50*B*b*d^3*m^2*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 90*B*b*c*d^2*m*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 30*B*a*d^3*m*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 30*A*b*d^3*m*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 24*B*b*d^3*m*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*b*c^2*d*m^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*a*c*d^2*m^5*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*b*c*d$

$$\begin{aligned}
& ^2m^5xxx^{(3n)}e^{(m\log(e) + m\log(x))} + A^ad^3m^5xxx^{(3n)}e^{(m\log(e) + m\log(x))} + B^ad^3m^5xxx^{(3n)}e^{(m\log(e) + m\log(x))} + A^bd^3m^5 \\
& xxx^{(3n)}e^{(m\log(e) + m\log(x))} + B^bd^3m^5xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 36B^bcb^2d^2m^4nxxx^{(3n)}e^{(m\log(e) + m\log(x))} + 36B^aacd \\
& ^2m^4nxxx^{(3n)}e^{(m\log(e) + m\log(x))} + 36A^bcb^2d^2m^4nxxx^{(3n)}e^{(m\log(e) + m\log(x))} + 33B^bcb^2d^2m^4nxxx^{(3n)}e^{(m\log(e) + m\log(x))} \\
&) + 12A^aad^3m^4nxxx^{(3n)}e^{(m\log(e) + m\log(x))} + 11B^aad^3m^4nxxx^{(3n)}e^{(m\log(e) + m\log(x))} + 11A^abd^3m^4nxxx^{(3n)}e^{(m\log(e) + m\log(x))} \\
& + m\log(x)) + 10B^bd^3m^4nxxx^{(3n)}e^{(m\log(e) + m\log(x))} + 147B^bcb^2d^2m^3n^2xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 147B^aacd^2m^3n^2xxx \\
& ^{(3n)}e^{(m\log(e) + m\log(x))} + 147A^bcb^2d^2m^3n^2xxx^{(3n)}e^{(m\log(e) + m\log(x))} + m\log(x)) + 123B^bcb^2d^2m^3n^2xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 4 \\
& 9A^aad^3m^3n^2xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 41B^aad^3m^3n^2xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 41A^abd^3m^3n^2xxx^{(3n)}e^{(m\log(e) + m\log(x))} \\
& + m\log(x)) + 35B^bd^3m^3n^2xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 234B^bcb^2d^2m^2n^3xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 234B^aacd^2m^2n^3xxx \\
& ^{(3n)}e^{(m\log(e) + m\log(x))} + 234A^bcb^2d^2m^2n^3xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 183B^bcb^2d^2m^2n^3xxx^{(3n)}e^{(m\log(e) + m\log(x))} + \\
& 78A^aad^3m^2n^3xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 61B^aad^3m^2n^3xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 61A^abd^3m^2n^3xxx^{(3n)}e^{(m\log(e) + m\log(x))} \\
&) + m\log(x)) + 50B^bd^3m^2n^3xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 120B^bcb^2d^2m^2n^3xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 120B^aacd^2m^2n^3xxx \\
& ^{(3n)}e^{(m\log(e) + m\log(x))} + 120A^bcb^2d^2m^2n^3xxx^{(3n)}e^{(m\log(e) + m\log(x))} + m\log(x)) + 90B^bcb^2d^2m^2n^3xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 40A^aad^3m^2n^4xxx^{(3n)}e^{(m\log(e) + m\log(x))} \\
& + 30B^aad^3m^2n^4xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 30A^abd^3m^2n^4xxx^{(3n)}e^{(m\log(e) + m\log(x))} + 24B^bd^3m^2n^4xxx^{(3n)}e^{(m\log(e) + m\log(x))} + B^bcb^3m^5xxx^{(2n)} \\
&)e^{(m\log(e) + m\log(x))} + 3B^aac^2d^2m^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 3A^abc^2d^2m^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 3B^bcb^2d^2m^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} \\
& + 3A^aacd^2m^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 3B^aacd^2m^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 3A^abd^3m^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + B^aad^3m^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} \\
& + B^bd^3m^5xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 13B^bcb^3m^4nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 39B^aac^2d^2m^4nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 39A^abc^2d^2m^4nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 36 \\
& *B^bcb^2d^2m^4nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 39A^aacd^2m^4nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 36B^aacd^2m^4nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 36A^abd^3m^4nxxx^{(2n)}e^{(m\log(e) + m\log(x))} \\
& + 33B^bcb^2d^2m^4nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 12A^aad^3m^4nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 11B^aad^3m^4nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 11A^abd^3m^4nxxx^{(2n)}e^{(m\log(e) + m\log(x))} \\
& + 10B^bd^3m^4nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 59B^bcb^3m^3n^2xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 177B^aac^2d^2m^3n^2xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 17
\end{aligned}$$

$7*A*b*c^2*d*m^3*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 147*B*b*c^2*d*m^3*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 177*A*a*c*d^2*m^3*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 147*B*a*c*d^2*m^3*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 147*A*b*c*d^2*m^3*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 123*B*b*c*d^2*m^3*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 49*A*a*d^3*m^3*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 41*B*a*d^3*m^3*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 41*A*b*d^3*m^3*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 35*B*b*d^3*m^3*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 107*B*b*c^3*m^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 321*B*a*c^2*d*m^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 321*A*b*c^2*d*m^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 234*B*b*c^2*d*m^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 321*A*a*c*d^2*m^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 234*B*a*c*d^2*m^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 234*A*b*c*d^2*m^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 183*B*b*c*d^2*m^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 78*A*a*d^3*m^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 61*B*a*d^3*m^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 61*A*b*d^3*m^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 50*B*b*d^3*m^2*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 60*B*b*c^3*m^n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 180*B*a*c^2*d*m^n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 180*A*b*c^2*d*m^n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 120*B*b*c^2*d*m^n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 180*A*a*c*d^2*m^n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 120*B*a*c*d^2*m^n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 120*A*b*c*d^2*m^n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 90*B*b*c*d^2*m^n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 40*A*a*d^3*m^n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 30*B*a*d^3*m^n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 30*A*b*d^3*m^n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 24*B*b*d^3*m^n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + B*a*c^3*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + A*b*c^3*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + B*b*c^3*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3*A*a*c^2*d*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3*B*a*c^2*d*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3*A*b*c^2*d*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3*B*b*c^2*d*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3*A*a*c*d^2*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3*B*a*c*d^2*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3*A*b*c*d^2*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3*B*b*c*d^2*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + A*a*d^3*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + B*a*d^3*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + A*b*d^3*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + B*b*d^3*m^5*x*x^n*e^{(m*\log(e) + m*\log(x))} + 14*B*a*c^3*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 14*A*b*c^3*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 13*B*b*c^3*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 42*A*a*c^2*d*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 39*B*a*c^2*d*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 39*A*b*c^2*d*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 36*B*b*c^2*d*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 39*A*a*c*d^2*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 36*B*a*c*d^2*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 36*A*b*c*d^2*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 33*B*b*c*d^2*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 12*A*a*d^3*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 11*B*a*d^3*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 11*A*b*d^3*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10*B*b*d^3*m^4*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 71*B*a*c^3*m^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} +$

$$\begin{aligned}
& ^{(m \log(e) + m \log(x))} + 36 * B * a * c * d^2 * m^4 * n * x * e^{(m \log(e) + m \log(x))} + 36 * \\
& A * b * c * d^2 * m^4 * n * x * e^{(m \log(e) + m \log(x))} + 33 * B * b * c * d^2 * m^4 * n * x * e^{(m \log(e) \\
&) + m \log(x)} + 12 * A * a * d^3 * m^4 * n * x * e^{(m \log(e) + m \log(x))} + 11 * B * a * d^3 * m^4 \\
& * n * x * e^{(m \log(e) + m \log(x))} + 11 * A * b * d^3 * m^4 * n * x * e^{(m \log(e) + m \log(x))} + \\
& 10 * B * b * d^3 * m^4 * n * x * e^{(m \log(e) + m \log(x))} + 85 * A * a * c^3 * m^3 * n^2 * x * e^{(m \log \\
& (e) + m \log(x))} + 71 * B * a * c^3 * m^3 * n^2 * x * e^{(m \log(e) + m \log(x))} + 71 * A * b * c^3 \\
& * m^3 * n^2 * x * e^{(m \log(e) + m \log(x))} + 59 * B * b * c^3 * m^3 * n^2 * x * e^{(m \log(e) + m \log \\
& og(x))} + 213 * A * a * c^2 * d * m^3 * n^2 * x * e^{(m \log(e) + m \log(x))} + 177 * B * a * c^2 * d * m^3 \\
& * n^2 * x * e^{(m \log(e) + m \log(x))} + 177 * A * b * c^2 * d * m^3 * n^2 * x * e^{(m \log(e) + m \log \\
& og(x))} + 147 * B * b * c^2 * d * m^3 * n^2 * x * e^{(m \log(e) + m \log(x))} + 177 * A * a * c * d^2 * m^3 \\
& * n^2 * x * e^{(m \log(e) + m \log(x))} + 147 * B * a * c * d^2 * m^3 * n^2 * x * e^{(m \log(e) + m \log \\
& og(x))} + 147 * A * b * c * d^2 * m^3 * n^2 * x * e^{(m \log(e) + m \log(x))} + 123 * B * b * c * d^2 * m^3 \\
& * n^2 * x * e^{(m \log(e) + m \log(x))} + 49 * A * a * d^3 * m^3 * n^2 * x * e^{(m \log(e) + m \log(x))} \\
& + 41 * B * a * d^3 * m^3 * n^2 * x * e^{(m \log(e) + m \log(x))} + 41 * A * b * d^3 * m^3 * n^2 * x * e \\
& ^{(m \log(e) + m \log(x))} + 35 * B * b * d^3 * m^3 * n^2 * x * e^{(m \log(e) + m \log(x))} + 225 \\
& * A * a * c^3 * m^2 * n^3 * x * e^{(m \log(e) + m \log(x))} + 154 * B * a * c^3 * m^2 * n^3 * x * e^{(m \log \\
& (e) + m \log(x))} + 154 * A * b * c^3 * m^2 * n^3 * x * e^{(m \log(e) + m \log(x))} + 107 * B * b * c \\
& ^3 * m^2 * n^3 * x * e^{(m \log(e) + m \log(x))} + 462 * A * a * c^2 * d * m^2 * n^3 * x * e^{(m \log(e) \\
& + m \log(x))} + 321 * B * a * c^2 * d * m^2 * n^3 * x * e^{(m \log(e) + m \log(x))} + 321 * A * b * c^2 \\
& * d * m^2 * n^3 * x * e^{(m \log(e) + m \log(x))} + 234 * B * b * c^2 * d * m^2 * n^3 * x * e^{(m \log(e) \\
& + m \log(x))} + 321 * A * a * c * d^2 * m^2 * n^3 * x * e^{(m \log(e) + m \log(x))} + 234 * B * a * c * d \\
& ^2 * m^2 * n^3 * x * e^{(m \log(e) + m \log(x))} + 234 * A * b * c * d^2 * m^2 * n^3 * x * e^{(m \log(e) \\
& + m \log(x))} + 183 * B * b * c * d^2 * m^2 * n^3 * x * e^{(m \log(e) + m \log(x))} + 78 * A * a * d^3 * \\
& m^2 * n^3 * x * e^{(m \log(e) + m \log(x))} + 61 * B * a * d^3 * m^2 * n^3 * x * e^{(m \log(e) + m \log \\
& g(x))} + 61 * A * b * d^3 * m^2 * n^3 * x * e^{(m \log(e) + m \log(x))} + 50 * B * b * d^3 * m^2 * n^3 * x \\
& * e^{(m \log(e) + m \log(x))} + 274 * A * a * c^3 * m * n^4 * x * e^{(m \log(e) + m \log(x))} + 12 \\
& 0 * B * a * c^3 * m * n^4 * x * e^{(m \log(e) + m \log(x))} + 120 * A * b * c^3 * m * n^4 * x * e^{(m \log(e) \\
& + m \log(x))} + 60 * B * b * c^3 * m * n^4 * x * e^{(m \log(e) + m \log(x))} + 360 * A * a * c^2 * d * m \\
& * n^4 * x * e^{(m \log(e) + m \log(x))} + 180 * B * a * c^2 * d * m * n^4 * x * e^{(m \log(e) + m \log(x))} \\
& + 180 * A * b * c^2 * d * m * n^4 * x * e^{(m \log(e) + m \log(x))} + 120 * B * b * c^2 * d * m * n^4 * x \\
& * e^{(m \log(e) + m \log(x))} + 180 * A * a * c * d^2 * m * n^4 * x * e^{(m \log(e) + m \log(x))} + \\
& 120 * B * a * c * d^2 * m * n^4 * x * e^{(m \log(e) + m \log(x))} + 120 * A * b * c * d^2 * m * n^4 * x * e^{(m \\
& log(e) + m \log(x))} + 90 * B * b * c * d^2 * m * n^4 * x * e^{(m \log(e) + m \log(x))} + 40 * A * a * \\
& d^3 * m * n^4 * x * e^{(m \log(e) + m \log(x))} + 30 * B * a * d^3 * m * n^4 * x * e^{(m \log(e) + m \log \\
& g(x))} + 30 * A * b * d^3 * m * n^4 * x * e^{(m \log(e) + m \log(x))} + 24 * B * b * d^3 * m * n^4 * x * e^{(\\
& m \log(e) + m \log(x))} + 120 * A * a * c^3 * n^5 * x * e^{(m \log(e) + m \log(x))} + 5 * B * b * d^3 \\
& * m^4 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 40 * B * b * d^3 * m^3 * n * x * x^{(5 * n)} * e^{(m \log \\
& og(e) + m \log(x))} + 105 * B * b * d^3 * m^2 * n^2 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + \\
& 100 * B * b * d^3 * m * n^3 * x * x^{(5 * n)} * e^{(m \log(e) + m \log(x))} + 24 * B * b * d^3 * n^4 * x * x^{(\\
& 5 * n)} * e^{(m \log(e) + m \log(x))} + 15 * B * b * c * d^2 * m^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log \\
& og(x))} + 5 * B * a * d^3 * m^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 5 * A * b * d^3 * m^4 * x * \\
& x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 5 * B * b * d^3 * m^4 * x * x^{(4 * n)} * e^{(m \log(e) + m \log \\
& og(x))} + 132 * B * b * c * d^2 * m^3 * n * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 44 * B * a * d^3 \\
& * m^3 * n * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 44 * A * b * d^3 * m^3 * n * x * x^{(4 * n)} * e^{(m \\
& log(e) + m \log(x))} + 40 * B * b * d^3 * m^3 * n * x * x^{(4 * n)} * e^{(m \log(e) + m \log(x))} + 3
\end{aligned}$$

$69*B*b*c*d^2*m^2*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 123*B*a*d^3*m^2*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 123*A*b*d^3*m^2*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 105*B*b*d^3*m^2*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 366*B*b*c*d^2*m*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 122*B*a*d^3*m*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 122*A*b*d^3*m*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 100*B*b*d^3*m*n^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 90*B*b*c*d^2*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 30*B*a*d^3*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 30*A*b*d^3*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 24*B*b*d^3*n^4*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 15*B*b*c^2*d*m^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 15*B*a*c*d^2*m^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 15*B*b*c*d^2*m^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 5*A*a*d^3*m^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 5*B*a*d^3*m^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 5*A*b*d^3*m^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 5*B*b*d^3*m^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 144*B*b*c^2*d*m^3*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 144*B*a*c*d^2*m^3*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 144*A*b*c*d^2*m^3*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 132*B*b*c*d^2*m^3*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 48*A*a*d^3*m^3*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 44*B*a*d^3*m^3*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 44*A*b*d^3*m^3*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 40*B*b*d^3*m^3*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 441*B*b*c^2*d*m^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 441*B*a*c*d^2*m^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 441*A*b*c*d^2*m^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 369*B*b*c*d^2*m^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 147*A*a*d^3*m^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 123*B*a*d^3*m^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 123*A*b*d^3*m^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 105*B*b*d^3*m^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 468*B*b*c^2*d*m*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 468*B*a*c*d^2*m*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 468*A*b*c*d^2*m*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 366*B*b*c*d^2*m*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 156*A*a*d^3*m*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 122*B*a*d^3*m*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 122*A*b*d^3*m*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 100*B*b*d^3*m*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 120*B*b*c^2*d*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 120*B*a*c*d^2*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 120*A*b*c*d^2*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 90*B*b*c*d^2*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 40*A*a*d^3*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 30*B*a*d^3*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 30*A*b*d^3*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 24*B*b*d^3*n^4*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 5*B*b*c^3*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 15*B*a*c^2*d*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 15*A*b*c^2*d*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 15*B*b*c^2*d*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 15*A*a*c*d^2*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 15*A*b*c*d^2*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 15*B*b*c*d^2*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 5*A*a*d^3*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 5*B*a*d^3*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 5*A*b*d^3*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 5*A*b*d^3*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))}$

$g(x)) + 5*B*b*d^3*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 52*B*b*c^3*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 156*B*a*c^2*d*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 156*A*b*c^2*d*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 144*B*b*c^2*d*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 156*A*a*c*d^2*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 144*B*a*c*d^2*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 144*A*b*c*d^2*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 132*B*b*c*d^2*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 48*A*a*d^3*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 44*B*a*d^3*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 44*A*b*d^3*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 40*B*b*d^3*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 177*B*b*c^3*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 531*B*a*c^2*d*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 531*A*b*c^2*d*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 441*B*b*c^2*d*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 531*A*a*c*d^2*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 441*B*a*c*d^2*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 441*A*b*c*d^2*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 369*B*b*c*d^2*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 147*A*a*d^3*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 123*B*a*d^3*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 123*A*b*d^3*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 105*B*b*d^3*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 214*B*b*c^3*m*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 642*B*a*c^2*d*m*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 642*A*b*c^2*d*m*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 468*B*b*c^2*d*m*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 642*A*a*c*d^2*m*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 468*B*a*c*d^2*m*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 468*A*b*c*d^2*m*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 366*B*b*c*d^2*m*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 156*A*a*d^3*m*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 122*B*a*d^3*m*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 122*A*b*d^3*m*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 100*B*b*d^3*m*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 60*B*b*c^3*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 180*B*a*c^2*d*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 180*A*b*c^2*d*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 120*B*b*c^2*d*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 180*A*a*c*d^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 120*B*a*c*d^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 120*A*b*c*d^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 90*B*b*c*d^2*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 40*A*a*d^3*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 30*B*a*d^3*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 30*A*b*d^3*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 24*B*b*d^3*n^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 5*B*a*c^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5*A*b*c^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*A*a*c^2*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*B*a*c^2*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*A*b*c^2*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*B*b*c^2*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*A*a*c*d^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*B*a*c*d^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*A*b*c*d^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*B*b*c*d^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5*A*a*d^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5*B*a*d^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5*A*b*d^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5*B*b*d^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))}$

$4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 56*B*a*c^3*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 56*A*b*c^3*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 52*B*b*c^3*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 168*A*a*c^2*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 156*B*a*c^2*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 156*A*b*c^2*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 144*B*b*c^2*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 156*A*a*c*d^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 144*B*a*c*d^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 144*A*b*c*d^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 132*B*b*c*d^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 48*A*a*d^3*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 44*B*a*d^3*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 44*A*b*d^3*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 40*B*b*d^3*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 213*B*a*c^3*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 213*A*b*c^3*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 177*B*b*c^3*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 639*A*a*c^2*d*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 531*B*a*c^2*d*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 531*A*b*c^2*d*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 441*B*b*c^2*d*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 531*A*a*c*d^2*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 441*B*a*c*d^2*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 441*A*b*c*d^2*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 369*B*b*c*d^2*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 147*A*a*d^3*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 123*B*a*d^3*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 123*A*b*d^3*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 105*B*b*d^3*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 308*B*a*c^3*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 308*A*b*c^3*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 214*B*b*c^3*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 924*A*a*c^2*d*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 642*B*a*c^2*d*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 642*A*b*c^2*d*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 468*B*b*c^2*d*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 468*A*a*c*d^2*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 468*B*a*c*d^2*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 468*A*b*c*d^2*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 366*B*b*c*d^2*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 156*A*a*d^3*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 122*B*a*d^3*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 122*A*b*d^3*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 100*B*b*d^3*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 120*B*a*c^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 120*A*b*c^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 60*B*b*c^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 360*A*a*c^2*d*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 180*B*a*c^2*d*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 180*A*b*c^2*d*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 120*B*b*c^2*d*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 120*A*a*c*d^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 120*B*a*c*d^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 120*A*b*c*d^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 90*B*b*c*d^2*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 40*A*a*d^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 30*B*a*d^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 30*A*b*d^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 24*B*b*d^3*n^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5*A*a*c^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5*B*a*c^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5*A*b*c^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 5*B*b*c^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*A*a*c^2*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*B*a*c^2*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*A*b*c^2*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 15*B*b*c^2*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))}$

$$\begin{aligned}
& ^{(m \log(e) + m \log(x))} + 10*B*b*d^3*m^3*x*x^{(5*n)}*e^{(m \log(e) + m \log(x))} + \\
& 60*B*b*d^3*m^2*n*x*x^{(5*n)}*e^{(m \log(e) + m \log(x))} + 105*B*b*d^3*m*n^2*x*x \\
& ^{(5*n)}*e^{(m \log(e) + m \log(x))} + 50*B*b*d^3*m^3*x*x^{(5*n)}*e^{(m \log(e) + m \log(x))} + 30*B*b*c*d^2*m^3*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 10*B*a*d^3*m^3*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 10*A*b*d^3*m^3*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 10*B*b*d^3*m^3*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 198*B*b*c*d^2*m^2*n*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 66*B*a*d^3*m^2*n*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 66*A*b*d^3*m^2*n*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 60*B*b*d^3*m^2*n*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 369*B*b*c*d^2*m*n^2*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 123*B*a*d^3*m*n^2*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 123*A*b*d^3*m*n^2*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 105*B*b*d^3*m*n^2*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 183*B*b*c*d^2*n^3*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 61*B*a*d^3*n^3*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 61*A*b*d^3*n^3*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 50*B*b*d^3*n^3*x*x^{(4*n)}*e^{(m \log(e) + m \log(x))} + 30*B*b*c^2*d*m^3*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 30*B*a*c*d^2*m^3*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 30*A*b*c*d^2*m^3*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 30*B*b*c*d^2*m^3*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 10*A*a*d^3*m^3*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 10*B*a*d^3*m^3*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 10*A*b*d^3*m^3*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 10*B*b*d^3*m^3*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 216*B*b*c^2*d*m^2*n*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 216*B*a*c*d^2*m^2*n*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 216*A*b*c*d^2*m^2*n*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 198*B*b*c*d^2*m^2*n*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 72*A*a*d^3*m^2*n*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 66*B*a*d^3*m^2*n*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 66*A*b*d^3*m^2*n*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 60*B*b*d^3*m^2*n*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 441*B*b*c^2*d*m*n^2*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 441*B*a*c*d^2*m*n^2*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 441*A*b*c*d^2*m*n^2*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 369*B*b*c*d^2*m*n^2*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 147*A*a*d^3*m*n^2*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 123*B*a*d^3*m*n^2*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 123*A*b*d^3*m*n^2*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 105*B*b*d^3*m*n^2*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 234*B*b*c^2*d*n^3*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 234*B*a*c*d^2*n^3*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 234*A*b*c*d^2*n^3*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 183*B*b*c*d^2*n^3*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 78*A*a*d^3*n^3*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 61*B*a*d^3*n^3*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 61*A*b*d^3*n^3*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 50*B*b*d^3*n^3*x*x^{(3*n)}*e^{(m \log(e) + m \log(x))} + 10*B*b*c^3*m^3*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + 30*B*a*c^2*d*m^3*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + 30*A*b*c^2*d*m^3*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + 30*B*b*c^2*d*m^3*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + 30*A*a*c*d^2*m^3*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + 30*B*a*c*d^2*m^3*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + 30*A*b*c*d^2*m^3*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + 30*B*b*c*d^2*m^3*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + 10*A*a*d^3*m^3*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + 10*B*a*d^3*m^3*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + 10*A*b*d^3*m^3*x*x^{(2*n)}*e^{(m \log(e) + m \log(x))} + 10*B*b*d
\end{aligned}$$

$$\begin{aligned}
& ^3m^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 78*B*b*c^3m^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} \\
& + 234*B*a*c^2d^2m^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 234*A*b*c^2d^2m^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} \\
& + 216*B*b*c^2d^2m^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 234*A*a*c^2d^2m^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} \\
& + 216*B*a*c^2d^2m^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 216*A*b*c^2d^2m^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} \\
& + 198*B*b*c^2d^2m^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 72*A*a*d^3m^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} \\
& + 66*B*a*d^3m^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 66*A*b*d^3m^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} \\
& + 60*B*b*d^3m^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 177*B*b*c^3m^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} \\
& + 531*B*a*c^2d^2m^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 531*A*b*c^2d^2m^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} \\
& + 441*B*b*c^2d^2m^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 441*A*a*c^2d^2m^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} \\
& + 441*B*a*c^2d^2m^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 441*A*b*c^2d^2m^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} \\
& + 369*B*b*c^2d^2m^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 147*A*a*d^3m^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} \\
& + 123*B*a*d^3m^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 123*A*b*d^3m^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} \\
& + 105*B*b*d^3m^2nxxx^{(2n)}e^{(m\log(e) + m\log(x))} + 107*B*b*c^3n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} \\
& + 321*B*a*c^2d^2n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 321*A*b*c^2d^2n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} \\
& + 234*B*b*c^2d^2n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 234*A*a*c^2d^2n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} \\
& + 183*B*b*c^2d^2n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 78*A*a*d^3n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} \\
& + 61*B*a*d^3n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 61*A*b*d^3n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} \\
& + 50*B*b*d^3n^3xxx^{(2n)}e^{(m\log(e) + m\log(x))} + 10*B*a*c^3m^3xxx^ne^{(m\log(e) + m\log(x))} \\
& + 10*A*b*c^3m^3xxx^ne^{(m\log(e) + m\log(x))} + 10*B*b*c^3m^3xxx^ne^{(m\log(e) + m\log(x))} \\
& + 30*A*a*c^2d^2m^3xxx^ne^{(m\log(e) + m\log(x))} + 30*B*a*c^2d^2m^3xxx^ne^{(m\log(e) + m\log(x))} \\
& + 30*A*b*c^2d^2m^3xxx^ne^{(m\log(e) + m\log(x))} + 30*B*b*c^2d^2m^3xxx^ne^{(m\log(e) + m\log(x))} \\
& + 30*A*a*c^2d^2m^3xxx^ne^{(m\log(e) + m\log(x))} + 30*B*a*c^2d^2m^3xxx^ne^{(m\log(e) + m\log(x))} \\
& + 30*A*b*c^2d^2m^3xxx^ne^{(m\log(e) + m\log(x))} + 30*B*b*c^2d^2m^3xxx^ne^{(m\log(e) + m\log(x))} \\
& + 10*A*a*d^3m^3xxx^ne^{(m\log(e) + m\log(x))} + 10*B*a*d^3m^3xxx^ne^{(m\log(e) + m\log(x))} \\
& + 10*A*b*d^3m^3xxx^ne^{(m\log(e) + m\log(x))} + 10*B*b*d^3m^3xxx^ne^{(m\log(e) + m\log(x))} \\
& + 84*B*a*c^3m^2nxxx^ne^{(m\log(e) + m\log(x))} + 84*A*b*c^3m^2nxxx^ne^{(m\log(e) + m\log(x))} \\
& + 78*B*b*c^3m^2nxxx^ne^{(m\log(e) + m\log(x))} + 252*A*a*c^2d^2m^2nxxx^ne^{(m\log(e) + m\log(x))} \\
& + 234*B*a*c^2d^2m^2nxxx^ne^{(m\log(e) + m\log(x))} + 234*A*b*c^2d^2m^2nxxx^ne^{(m\log(e) + m\log(x))} \\
& + 216*B*b*c^2d^2m^2nxxx^ne^{(m\log(e) + m\log(x))} + 216*A*a*c^2d^2m^2nxxx^ne^{(m\log(e) + m\log(x))} \\
& + 216*A*b*c^2d^2m^2nxxx^ne^{(m\log(e) + m\log(x))} + 198*B*b*c^2d^2m^2nxxx^ne^{(m\log(e) + m\log(x))} \\
& + 72*A*a*d^3m^2nxxx^ne^{(m\log(e) + m\log(x))} + 66*B*a*d^3m^2nxxx^ne^{(m\log(e) + m\log(x))}
\end{aligned}$$

$$\begin{aligned}
& + 66*A*b*d^3*m^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 60*B*b*d^3*m^2*n*x*x^n* \\
& e^{(m*\log(e) + m*\log(x))} + 213*B*a*c^3*m*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + \\
& 213*A*b*c^3*m*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 177*B*b*c^3*m*n^2*x*x^n* \\
& e^{(m*\log(e) + m*\log(x))} + 639*A*a*c^2*d*m*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 531*B*a*c^2*d*m*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 531*A*b*c^2*d*m*n^2* \\
& x*x^n*e^{(m*\log(e) + m*\log(x))} + 441*B*b*c^2*d*m*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + \\
& 531*A*a*c*d^2*m*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 441*B*a*c*d^2* \\
& m*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 441*A*b*c*d^2*m*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + m*\log(x)) + 369*B*b*c*d^2*m*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 147*A*a* \\
& d^3*m*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 123*B*a*d^3*m*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + m*\log(x)) + 123*A*b*d^3*m*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 105*B*b* \\
& d^3*m*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 154*B*a*c^3*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + m*\log(x)) + 154*A*b*c^3*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 107*B*b*c^3* \\
& n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 462*A*a*c^2*d*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + \\
& m*\log(x)) + 321*B*a*c^2*d*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 321*A*b*c^2*d* \\
& n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 234*B*b*c^2*d*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + \\
& m*\log(x)) + 321*A*a*c*d^2*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 234*B*a*c*d^2* \\
& n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 234*A*b*c*d^2*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + \\
& m*\log(x)) + 183*B*b*c*d^2*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 78*A*a*d^3*n^3* \\
& x*x^n*e^{(m*\log(e) + m*\log(x))} + 61*B*a*d^3*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + \\
& 61*A*b*d^3*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 50*B*b*d^3*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 10*A*a*c^3*m^3*x*x*e^{(m*\log(e) + m*\log(x))} + 10*B*a*c^3*m^3*x*x*e^{(m*\log(e) + m*\log(x))} \\
& + 10*A*b*c^3*m^3*x*x*e^{(m*\log(e) + m*\log(x))} + 30*A*a*c^2*d*m^3*x*x*e^{(m*\log(e) + m*\log(x))} \\
& + m*\log(x)) + 30*B*a*c^2*d*m^3*x*x*e^{(m*\log(e) + m*\log(x))} + 30*A*b*c^2*d*m^3* \\
& x*x*e^{(m*\log(e) + m*\log(x))} + 30*B*b*c^2*d*m^3*x*x*e^{(m*\log(e) + m*\log(x))} + \\
& 30*A*a*c*d^2*m^3*x*x*e^{(m*\log(e) + m*\log(x))} + 30*B*a*c*d^2*m^3*x*x*e^{(m*\log(e) + m*\log(x))} \\
& + m*\log(x)) + 30*A*b*c*d^2*m^3*x*x*e^{(m*\log(e) + m*\log(x))} + 30*B*b*c*d^2*m^3* \\
& x*x*e^{(m*\log(e) + m*\log(x))} + 10*A*a*d^3*m^3*x*x*e^{(m*\log(e) + m*\log(x))} + 1 \\
& 0*B*a*d^3*m^3*x*x*e^{(m*\log(e) + m*\log(x))} + 10*A*b*d^3*m^3*x*x*e^{(m*\log(e) + m*\log(x))} \\
& + 10*B*b*d^3*m^3*x*x*e^{(m*\log(e) + m*\log(x))} + 90*A*a*c^3*m^2*n*x*x*e^{(m*\log(e) + m*\log(x))} \\
& + 84*B*a*c^3*m^2*n*x*x*e^{(m*\log(e) + m*\log(x))} + 84*A*b*c^3*m^2*n*x*x*e^{(m*\log(e) + m*\log(x))} \\
& + 78*B*b*c^3*m^2*n*x*x*e^{(m*\log(e) + m*\log(x))} + 252*A*a*c^2*d*m^2*n*x*x*e^{(m*\log(e) + m*\log(x))} \\
& + 234*B*a*c^2*d*m^2*n*x*x*e^{(m*\log(e) + m*\log(x))} + 234*A*b*c^2*d*m^2*n*x*x*e^{(m*\log(e) + m*\log(x))} \\
& + 216*B*b*c^2*d*m^2*n*x*x*e^{(m*\log(e) + m*\log(x))} + 234*A*a*c*d^2*m^2*n*x*x*e^{(m*\log(e) + m*\log(x))} \\
& + 216*B*a*c*d^2*m^2*n*x*x*e^{(m*\log(e) + m*\log(x))} + 216*A*b*c*d^2*m^2*n*x*x*e^{(m*\log(e) + m*\log(x))} \\
& + 198*B*b*c*d^2*m^2*n*x*x*e^{(m*\log(e) + m*\log(x))} + 72*A*a*d^3*m^2*n*x*x*e^{(m*\log(e) + m*\log(x))} \\
& + 66*B*a*d^3*m^2*n*x*x*e^{(m*\log(e) + m*\log(x))} + 66*A*b*d^3*m^2*n*x*x*e^{(m*\log(e) + m*\log(x))} \\
& + 60*B*b*d^3*m^2*n*x*x*e^{(m*\log(e) + m*\log(x))} + 255*A*a*c^3*m*n^2*x*x*e^{(m*\log(e) + m*\log(x))} \\
& + 213*B*a*c^3*m*n^2*x*x*e^{(m*\log(e) + m*\log(x))} + 213*A*b*c^3* \\
& m*n^2*x*x*e^{(m*\log(e) + m*\log(x))} + 177*B*b*c^3*m*n^2*x*x*e^{(m*\log(e) + m*\log(x))} \\
& + 639*A*a*c^2*d*m*n^2*x*x*e^{(m*\log(e) + m*\log(x))} + 531*B*a*c^2*d*m*n^2*x* \\
& x*e^{(m*\log(e) + m*\log(x))} + 531*A*b*c^2*d*m*n^2*x*x*e^{(m*\log(e) + m*\log(x))} +
\end{aligned}$$

$441*B*b*c^2*d*m*n^2*x*e^{(m*\log(e) + m*\log(x))} + 531*A*a*c*d^2*m*n^2*x*e^{(m*\log(e) + m*\log(x))} + 441*B*a*c*d^2*m*n^2*x*e^{(m*\log(e) + m*\log(x))} + 441*A*b*c*d^2*m*n^2*x*e^{(m*\log(e) + m*\log(x))} + 369*B*b*c*d^2*m*n^2*x*e^{(m*\log(e) + m*\log(x))} + 147*A*a*d^3*m*n^2*x*e^{(m*\log(e) + m*\log(x))} + 123*B*a*d^3*m*n^2*x*e^{(m*\log(e) + m*\log(x))} + 123*A*b*d^3*m*n^2*x*e^{(m*\log(e) + m*\log(x))} + 105*B*b*d^3*m*n^2*x*e^{(m*\log(e) + m*\log(x))} + 225*A*a*c^3*n^3*x*e^{(m*\log(e) + m*\log(x))} + 154*B*a*c^3*n^3*x*e^{(m*\log(e) + m*\log(x))} + 154*A*b*c^3*n^3*x*e^{(m*\log(e) + m*\log(x))} + 107*B*b*c^3*n^3*x*e^{(m*\log(e) + m*\log(x))} + 462*A*a*c^2*d*n^3*x*e^{(m*\log(e) + m*\log(x))} + 321*B*a*c^2*d*n^3*x*e^{(m*\log(e) + m*\log(x))} + 321*A*b*c^2*d*n^3*x*e^{(m*\log(e) + m*\log(x))} + 234*B*b*c^2*d*n^3*x*e^{(m*\log(e) + m*\log(x))} + 321*A*a*c*d^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 234*B*a*c*d^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 234*A*b*c*d^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 183*B*b*c*d^2*n^3*x*e^{(m*\log(e) + m*\log(x))} + 78*A*a*d^3*n^3*x*e^{(m*\log(e) + m*\log(x))} + 61*B*a*d^3*n^3*x*e^{(m*\log(e) + m*\log(x))} + 61*A*b*d^3*n^3*x*e^{(m*\log(e) + m*\log(x))} + 50*B*b*d^3*n^3*x*e^{(m*\log(e) + m*\log(x))} + 10*B*b*d^3*m^2*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 40*B*b*d^3*m*n*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 35*B*b*d^3*n^2*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 30*B*b*c*d^2*m^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 10*B*a*d^3*m^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 10*A*b*d^3*m^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 10*B*b*d^3*m^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 132*B*b*c*d^2*m*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 44*B*a*d^3*m*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 44*A*b*d^3*m*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 40*B*b*d^3*m*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 123*B*b*c*d^2*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 41*B*a*d^3*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 41*A*b*d^3*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 35*B*b*d^3*n^2*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 30*B*b*c^2*d*m^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 30*B*a*c*d^2*m^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 30*A*b*c*d^2*m^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 30*B*b*c*d^2*m^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 10*A*a*d^3*m^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 10*B*a*d^3*m^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 10*A*b*d^3*m^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 10*B*b*d^3*m^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 144*B*b*c^2*d*m*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 144*B*a*c*d^2*m*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 144*A*b*c*d^2*m*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 132*B*b*c*d^2*m*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 48*A*a*d^3*m*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 44*B*a*d^3*m*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 44*A*b*d^3*m*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 40*B*b*d^3*m*n*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 147*B*b*c^2*d*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 147*B*a*c*d^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 147*A*b*c*d^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 123*B*b*c*d^2*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 49*A*a*d^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 41*B*a*d^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 41*A*b*d^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 35*B*b*d^3*n^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 10*B*b*c^3*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 30*B*a*c^2*d*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 30*A*b*c^2*d*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 30*B*b*c^2*d*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 30*B*b*c^2*d*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 30*B*b*c^2*d*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))}$

$$\begin{aligned}
&) + 30*A*a*c*d^2*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 30*B*a*c*d^2*m^2*x \\
& *x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 30*A*b*c*d^2*m^2*x*x^{(2*n)}*e^{(m*\log(e) + \\
& m*\log(x))} + 30*B*b*c*d^2*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 10*A*a*d^ \\
& 3*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 10*B*a*d^3*m^2*x*x^{(2*n)}*e^{(m*\log \\
& (e) + m*\log(x))} + 10*A*b*d^3*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 10*B*b \\
& *d^3*m^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 52*B*b*c^3*m*n*x*x^{(2*n)}*e^{(m* \\
& \log(e) + m*\log(x))} + 156*B*a*c^2*d*m*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + \\
& 156*A*b*c^2*d*m*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 144*B*b*c^2*d*m*n*x*x \\
& ^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 156*A*a*c*d^2*m*n*x*x^{(2*n)}*e^{(m*\log(e) + \\
& m*\log(x))} + 144*B*a*c*d^2*m*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 144*A*b*c \\
& *d^2*m*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 132*B*b*c*d^2*m*n*x*x^{(2*n)}*e^{ \\
& (m*\log(e) + m*\log(x))} + 48*A*a*d^3*m*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + \\
& 44*B*a*d^3*m*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 44*A*b*d^3*m*n*x*x^{(2*n)} \\
& *e^{(m*\log(e) + m*\log(x))} + 40*B*b*d^3*m*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} \\
& + 59*B*b*c^3*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 177*B*a*c^2*d*n^2*x*x \\
& ^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 177*A*b*c^2*d*n^2*x*x^{(2*n)}*e^{(m*\log(e) + \\
& m*\log(x))} + 147*B*b*c^2*d*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 177*A*a*c \\
& *d^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 147*B*a*c*d^2*n^2*x*x^{(2*n)}*e^{ \\
& (m*\log(e) + m*\log(x))} + 147*A*b*c*d^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} \\
& + 123*B*b*c*d^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 49*A*a*d^3*n^2*x*x \\
& ^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 41*B*a*d^3*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m* \\
& \log(x))} + 41*A*b*d^3*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 35*B*b*d^3*n^2* \\
& x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 10*B*a*c^3*m^2*x*x^n*e^{(m*\log(e) + m*lo \\
& g(x))} + 10*A*b*c^3*m^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10*B*b*c^3*m^2*x*x^n \\
& *e^{(m*\log(e) + m*\log(x))} + 30*A*a*c^2*d*m^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + \\
& 30*B*a*c^2*d*m^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 30*A*b*c^2*d*m^2*x*x^n*e^{ \\
& (m*\log(e) + m*\log(x))} + 30*B*b*c^2*d*m^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 30 \\
& *A*a*c*d^2*m^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 30*B*a*c*d^2*m^2*x*x^n*e^{(m* \\
& \log(e) + m*\log(x))} + 30*A*b*c*d^2*m^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 30*B* \\
& b*c*d^2*m^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10*A*a*d^3*m^2*x*x^n*e^{(m*\log(e) \\
&) + m*\log(x))} + 10*B*a*d^3*m^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10*A*b*d^3*m \\
& ^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10*B*b*d^3*m^2*x*x^n*e^{(m*\log(e) + m*\log \\
& (x))} + 56*B*a*c^3*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 56*A*b*c^3*m*n*x*x^n* \\
& e^{(m*\log(e) + m*\log(x))} + 52*B*b*c^3*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 16 \\
& 8*A*a*c^2*d*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 156*B*a*c^2*d*m*n*x*x^n*e^{(\\
& m*\log(e) + m*\log(x))} + 156*A*b*c^2*d*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 14 \\
& 4*B*b*c^2*d*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 156*A*a*c*d^2*m*n*x*x^n*e^{(\\
& m*\log(e) + m*\log(x))} + 144*B*a*c*d^2*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 14 \\
& 4*A*b*c*d^2*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 132*B*b*c*d^2*m*n*x*x^n*e^{(\\
& m*\log(e) + m*\log(x))} + 48*A*a*d^3*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 44*B* \\
& a*d^3*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 44*A*b*d^3*m*n*x*x^n*e^{(m*\log(e) \\
& + m*\log(x))} + 40*B*b*d^3*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 71*B*a*c^3*n^2 \\
& *x*x^n*e^{(m*\log(e) + m*\log(x))} + 71*A*b*c^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x) \\
&)} + 59*B*b*c^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 213*A*a*c^2*d*n^2*x*x^n \\
& *e^{(m*\log(e) + m*\log(x))} + 177*B*a*c^2*d*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))}
\end{aligned}$$

$+ 177*A*b*c^2*d^n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 147*B*b*c^2*d^n^2*x*x^n$
 $*e^{(m*\log(e) + m*\log(x))} + 177*A*a*c*d^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))}$
 $+ 147*B*a*c*d^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 147*A*b*c*d^2*n^2*x*x^n$
 $*e^{(m*\log(e) + m*\log(x))} + 123*B*b*c*d^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))}$
 $+ 49*A*a*d^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 41*B*a*d^3*n^2*x*x^n*e^{(m*$
 $\log(e) + m*\log(x))} + 41*A*b*d^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 35*B*b*$
 $d^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10*A*a*c^3*m^2*x*e^{(m*\log(e) + m*lo$
 $g(x))} + 10*B*a*c^3*m^2*x*e^{(m*\log(e) + m*\log(x))} + 10*A*b*c^3*m^2*x*e^{(m*lo$
 $g(e) + m*\log(x))} + 10*B*b*c^3*m^2*x*e^{(m*\log(e) + m*\log(x))} + 30*A*a*c^2*d*$
 $m^2*x*e^{(m*\log(e) + m*\log(x))} + 30*B*a*c^2*d*m^2*x*e^{(m*\log(e) + m*\log(x))}$
 $+ 30*A*b*c^2*d*m^2*x*e^{(m*\log(e) + m*\log(x))} + 30*B*b*c^2*d*m^2*x*e^{(m*\log($
 $e) + m*\log(x))} + 30*A*a*c*d^2*m^2*x*e^{(m*\log(e) + m*\log(x))} + 30*B*a*c*d^2*$
 $m^2*x*e^{(m*\log(e) + m*\log(x))} + 30*A*b*c*d^2*m^2*x*e^{(m*\log(e) + m*\log(x))}$
 $+ 30*B*b*c*d^2*m^2*x*e^{(m*\log(e) + m*\log(x))} + 10*A*a*d^3*m^2*x*e^{(m*\log(e)$
 $+ m*\log(x))} + 10*B*a*d^3*m^2*x*e^{(m*\log(e) + m*\log(x))} + 10*A*b*d^3*m^2*x*$
 $e^{(m*\log(e) + m*\log(x))} + 10*B*b*d^3*m^2*x*e^{(m*\log(e) + m*\log(x))} + 60*A*a$
 $*c^3*m*n*x*e^{(m*\log(e) + m*\log(x))} + 56*B*a*c^3*m*n*x*e^{(m*\log(e) + m*\log(x)$
 $))} + 56*A*b*c^3*m*n*x*e^{(m*\log(e) + m*\log(x))} + 52*B*b*c^3*m*n*x*e^{(m*\log(e)$
 $+ m*\log(x))} + 168*A*a*c^2*d*m*n*x*e^{(m*\log(e) + m*\log(x))} + 156*B*a*c^2*d$
 $*m*n*x*e^{(m*\log(e) + m*\log(x))} + 156*A*b*c^2*d*m*n*x*e^{(m*\log(e) + m*\log(x)$
 $)} + 144*B*b*c^2*d*m*n*x*e^{(m*\log(e) + m*\log(x))} + 156*A*a*c*d^2*m*n*x*e^{(m*$
 $\log(e) + m*\log(x))} + 144*B*a*c*d^2*m*n*x*e^{(m*\log(e) + m*\log(x))} + 144*A*b*$
 $c*d^2*m*n*x*e^{(m*\log(e) + m*\log(x))} + 132*B*b*c*d^2*m*n*x*e^{(m*\log(e) + m*1$
 $og(x))} + 48*A*a*d^3*m*n*x*e^{(m*\log(e) + m*\log(x))} + 44*B*a*d^3*m*n*x*e^{(m*1$
 $og(e) + m*\log(x))} + 44*A*b*d^3*m*n*x*e^{(m*\log(e) + m*\log(x))} + 40*B*b*d^3*m$
 $*n*x*e^{(m*\log(e) + m*\log(x))} + 85*A*a*c^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 7$
 $1*B*a*c^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 71*A*b*c^3*n^2*x*e^{(m*\log(e) + m*$
 $\log(x))} + 59*B*b*c^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 213*A*a*c^2*d*n^2*x*e^{$
 $(m*\log(e) + m*\log(x))} + 177*B*a*c^2*d*n^2*x*e^{(m*\log(e) + m*\log(x))} + 177*A$
 $*b*c^2*d*n^2*x*e^{(m*\log(e) + m*\log(x))} + 147*B*b*c^2*d*n^2*x*e^{(m*\log(e) +$
 $m*\log(x))} + 177*A*a*c*d^2*n^2*x*e^{(m*\log(e) + m*\log(x))} + 147*B*a*c*d^2*n^2$
 $*x*e^{(m*\log(e) + m*\log(x))} + 147*A*b*c*d^2*n^2*x*e^{(m*\log(e) + m*\log(x))} +$
 $123*B*b*c*d^2*n^2*x*e^{(m*\log(e) + m*\log(x))} + 49*A*a*d^3*n^2*x*e^{(m*\log(e)$
 $+ m*\log(x))} + 41*B*a*d^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 41*A*b*d^3*n^2*x*e$
 $^{(m*\log(e) + m*\log(x))} + 35*B*b*d^3*n^2*x*e^{(m*\log(e) + m*\log(x))} + 5*B*b*d$
 $^3*m*x*x^{(5*n)}*e^{(m*\log(e) + m*\log(x))} + 10*B*b*d^3*n*x*x^{(5*n)}*e^{(m*\log(e)$
 $+ m*\log(x))} + 15*B*b*c*d^2*m*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 5*B*a*d^3$
 $*m*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 5*A*b*d^3*m*x*x^{(4*n)}*e^{(m*\log(e) +$
 $m*\log(x))} + 5*B*b*d^3*m*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 33*B*b*c*d^2*n*$
 $x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 11*B*a*d^3*n*x*x^{(4*n)}*e^{(m*\log(e) + m*$
 $\log(x))} + 11*A*b*d^3*n*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 10*B*b*d^3*n*x*x$
 $^{(4*n)}*e^{(m*\log(e) + m*\log(x))} + 15*B*b*c^2*d*m*x*x^{(3*n)}*e^{(m*\log(e) + m*1$
 $og(x))} + 15*B*a*c*d^2*m*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 15*A*b*c*d^2*m*$
 $x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 15*B*b*c*d^2*m*x*x^{(3*n)}*e^{(m*\log(e) +$
 $m*\log(x))} + 5*A*a*d^3*m*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 5*B*a*d^3*m*x*x$

$$\begin{aligned}
& ^{(3n)}e^{(m\log(e) + m\log(x))} + 5A^*b^*d^3m^*x^*x^{(3n)}e^{(m\log(e) + m\log(x))} + 5B^*b^*d^3m^*x^*x^{(3n)}e^{(m\log(e) + m\log(x))} + 36B^*b^*c^2d^2n^*x^*x^{(3n)}e^{(m\log(e) + m\log(x))} + 36B^*a^*c^2d^2n^*x^*x^{(3n)}e^{(m\log(e) + m\log(x))} + 36A^*b^*c^2d^2n^*x^*x^{(3n)}e^{(m\log(e) + m\log(x))} + 33B^*b^*c^2d^2n^*x^*x^{(3n)}e^{(m\log(e) + m\log(x))} + 12A^*a^*d^3n^*x^*x^{(3n)}e^{(m\log(e) + m\log(x))} + 11B^*a^*d^3n^*x^*x^{(3n)}e^{(m\log(e) + m\log(x))} + 11A^*b^*d^3n^*x^*x^{(3n)}e^{(m\log(e) + m\log(x))} + 10B^*b^*d^3n^*x^*x^{(3n)}e^{(m\log(e) + m\log(x))} + 5B^*b^*c^3m^*x^*x^{(2n)}e^{(m\log(e) + m\log(x))} + 15B^*a^*c^2d^2m^*x^*x^{(2n)}e^{(m\log(e) + m\log(x))} + 15A^*b^*c^2d^2m^*x^*x^{(2n)}e^{(m\log(e) + m\log(x))} + 15B^*b^*c^2d^2m^*x^*x^{(2n)}e^{(m\log(e) + m\log(x))} + 15A^*a^*c^2d^2m^*x^*x^{(2n)}e^{(m\log(e) + m\log(x))} + 15B^*a^*c^2d^2m^*x^*x^{(2n)}e^{(m\log(e) + m\log(x))} + 15A^*b^*c^2d^2m^*x^*x^{(2n)}e^{(m\log(e) + m\log(x))} + 15B^*b^*c^2d^2m^*x^*x^{(2n)}e^{(m\log(e) + m\log(x))} + 5A^*a^*d^3m^*x^*x^{(2n)}e^{(m\log(e) + m\log(x))} + 5B^*a^*d^3m^*x^*x^{(2n)}e^{(m\log(e) + m\log(x))} + 5A^*b^*d^3m^*x^*x^{(2n)}e^{(m\log(e) + m\log(x))} + 5B^*b^*d^3m^*x^*x^{(2n)}e^{(m\log(e) + m\log(x))} + 13B^*b^*c^3n^*x^*x^{(2n)}e^{(m\log(e) + m\log(x))} + 39B^*a^*c^2d^2n^*x^*x^{(2n)}e^{(m\log(e) + m\log(x))} + 39A^*b^*c^2d^2n^*x^*x^{(2n)}e^{(m\log(e) + m\log(x))} + 36B^*b^*c^2d^2n^*x^*x^{(2n)}e^{(m\log(e) + m\log(x))} + 39A^*a^*c^2d^2n^*x^*x^{(2n)}e^{(m\log(e) + m\log(x))} + 36B^*a^*c^2d^2n^*x^*x^{(2n)}e^{(m\log(e) + m\log(x))} + 36A^*b^*c^2d^2n^*x^*x^{(2n)}e^{(m\log(e) + m\log(x))} + 33B^*b^*c^2d^2n^*x^*x^{(2n)}e^{(m\log(e) + m\log(x))} + 12A^*a^*d^3n^*x^*x^{(2n)}e^{(m\log(e) + m\log(x))} + 11B^*a^*d^3n^*x^*x^{(2n)}e^{(m\log(e) + m\log(x))} + 11A^*b^*d^3n^*x^*x^{(2n)}e^{(m\log(e) + m\log(x))} + 10B^*b^*d^3n^*x^*x^{(2n)}e^{(m\log(e) + m\log(x))} + 5B^*a^*c^3m^*x^*x^n e^{(m\log(e) + m\log(x))} + 5A^*b^*c^3m^*x^*x^n e^{(m\log(e) + m\log(x))} + 5B^*b^*c^3m^*x^*x^n e^{(m\log(e) + m\log(x))} + 15A^*a^*c^2d^2m^*x^*x^n e^{(m\log(e) + m\log(x))} + 15B^*a^*c^2d^2m^*x^*x^n e^{(m\log(e) + m\log(x))} + 15A^*b^*c^2d^2m^*x^*x^n e^{(m\log(e) + m\log(x))} + 15B^*b^*c^2d^2m^*x^*x^n e^{(m\log(e) + m\log(x))} + 15A^*a^*c^2d^2m^*x^*x^n e^{(m\log(e) + m\log(x))} + 15B^*a^*c^2d^2m^*x^*x^n e^{(m\log(e) + m\log(x))} + 15A^*b^*c^2d^2m^*x^*x^n e^{(m\log(e) + m\log(x))} + 15B^*b^*c^2d^2m^*x^*x^n e^{(m\log(e) + m\log(x))} + 5A^*a^*d^3m^*x^*x^n e^{(m\log(e) + m\log(x))} + 5B^*a^*d^3m^*x^*x^n e^{(m\log(e) + m\log(x))} + 5A^*b^*d^3m^*x^*x^n e^{(m\log(e) + m\log(x))} + 5B^*b^*d^3m^*x^*x^n e^{(m\log(e) + m\log(x))} + 14B^*a^*c^3n^*x^*x^n e^{(m\log(e) + m\log(x))} + 14A^*b^*c^3n^*x^*x^n e^{(m\log(e) + m\log(x))} + 13B^*b^*c^3n^*x^*x^n e^{(m\log(e) + m\log(x))} + 42A^*a^*c^2d^2n^*x^*x^n e^{(m\log(e) + m\log(x))} + 39B^*a^*c^2d^2n^*x^*x^n e^{(m\log(e) + m\log(x))} + 39A^*b^*c^2d^2n^*x^*x^n e^{(m\log(e) + m\log(x))} + 36B^*b^*c^2d^2n^*x^*x^n e^{(m\log(e) + m\log(x))} + 39A^*a^*c^2d^2n^*x^*x^n e^{(m\log(e) + m\log(x))} + 36B^*a^*c^2d^2n^*x^*x^n e^{(m\log(e) + m\log(x))} + 36A^*b^*c^2d^2n^*x^*x^n e^{(m\log(e) + m\log(x))} + 33B^*b^*c^2d^2n^*x^*x^n e^{(m\log(e) + m\log(x))} + 12A^*a^*d^3n^*x^*x^n e^{(m\log(e) + m\log(x))} + 11B^*a^*d^3n^*x^*x^n e^{(m\log(e) + m\log(x))} + 11A^*b^*d^3n^*x^*x^n e^{(m\log(e) + m\log(x))} + 10B^*b^*d^3n^*x^*x^n e^{(m\log(e) + m\log(x))} + 5A^*a^*c^3m^*x^*e^{(m\log(e) + m\log(x))} + 5B^*a^*c^3m^*x^*e^{(m\log(e) + m\log(x))} + 5A^*b^*c^3m^*x^*e^{(m\log(e) + m\log(x))} + 5B^*b^*c^3m^*x^*e^{(m\log(e) + m\log(x))} + 15A^*a^*c^2d^2m^*x^*e^{(m\log(e) + m\log(x))} + 15B^*a^*c^2d^2m^*x^*e^{(m\log(e) + m\log(x))} + 15A^*b^*c^2d^2m^*x^*e^{(m\log(e) + m\log(x))} + 15B^*b^*c^2d^2m^*x^*e^{(m\log(e) + m\log(x))}
\end{aligned}$$

)) + A*b*d^3*x*e^(m*log(e) + m*log(x)) + B*b*d^3*x*e^(m*log(e) + m*log(x))
 /(m^6 + 15*m^5*n + 85*m^4*n^2 + 225*m^3*n^3 + 274*m^2*n^4 + 120*m*n^5 + 6*m
 ^5 + 75*m^4*n + 340*m^3*n^2 + 675*m^2*n^3 + 548*m*n^4 + 120*n^5 + 15*m^4 +
 150*m^3*n + 510*m^2*n^2 + 675*m*n^3 + 274*n^4 + 20*m^3 + 150*m^2*n + 340*m*
 n^2 + 225*n^3 + 15*m^2 + 75*m*n + 85*n^2 + 6*m + 15*n + 1)

Mupad [B] (verification not implemented)

Time = 9.83 (sec) , antiderivative size = 1089, normalized size of antiderivative = 5.19

$$\int (ex)^m (a + bx^n) (A + Bx^n) (c + dx^n)^3 dx = \frac{Aac^3x(ex)^m}{m+1} + \frac{d^2xx^{4n}(ex)^m(Abd + Bad + 3Bbc)(m^4 + 11m^3n + 4m^3 + 41m^2n^2 + 33m^2n + 6m^5 + 15m^4n + 5m^4 + 85m^3n^2 + 60m^3n + 10m^3 + 225m^2n^3 + 255m^2n^2 + 90m^2n + 10m^2 + 274cx^2n)(ex)^m(3Aad^2 + Bbc^2 + 3Abcd + 3Bacd)(m^4 + 13m^3n + 4m^3 + 59m^2n^2 + 39m^2m^5 + 15m^4n + 5m^4 + 85m^3n^2 + 60m^3n + 10m^3 + 225m^2n^3 + 255m^2n^2 + 90m^2n + 10m^2 + 274dx^3n)(ex)^m(Aad^2 + 3Bbc^2 + 3Abcd + 3Bacd)(m^4 + 12m^3n + 4m^3 + 49m^2n^2 + 36m^2m^5 + 15m^4n + 5m^4 + 85m^3n^2 + 60m^3n + 10m^3 + 225m^2n^3 + 255m^2n^2 + 90m^2n + 10m^2 + 274c^2xx^n)(ex)^m(3Aad + Abc + Bac)(m^4 + 14m^3n + 4m^3 + 71m^2n^2 + 42m^2n + 6m^2m^5 + 15m^4n + 5m^4 + 85m^3n^2 + 60m^3n + 10m^3 + 225m^2n^3 + 255m^2n^2 + 90m^2n + 10m^2 + 274Bbd^3xx^{5n})(ex)^m(m^4 + 10m^3n + 4m^3 + 35m^2n^2 + 30m^2n + 6m^2 + 50m^2m^5 + 15m^4n + 5m^4 + 85m^3n^2 + 60m^3n + 10m^3 + 225m^2n^3 + 255m^2n^2 + 90m^2n + 10m^2 + 274$$

[In] int((e*x)^m*(A + B*x^n)*(a + b*x^n)*(c + d*x^n)^3,x)

[Out] (A*a*c^3*x*(e*x)^m)/(m + 1) + (d^2*x*x^(4*n)*(e*x)^m*(A*b*d + B*a*d + 3*B*b*c)*(4*m + 11*n + 33*m*n + 82*m*n^2 + 33*m^2*n + 61*m*n^3 + 11*m^3*n + 6*m^2 + 4*m^3 + m^4 + 41*n^2 + 61*n^3 + 30*n^4 + 41*m^2*n^2 + 1))/(5*m + 15*n + 60*m*n + 255*m*n^2 + 90*m^2*n + 450*m*n^3 + 60*m^3*n + 274*m*n^4 + 15*m^4*n + 10*m^2 + 10*m^3 + 5*m^4 + m^5 + 85*n^2 + 225*n^3 + 274*n^4 + 120*n^5 + 255*m^2*n^2 + 225*m^2*n^3 + 85*m^3*n^2 + 1) + (c*x*x^(2*n)*(e*x)^m*(3*A*a*d^2 + B*b*c^2 + 3*A*b*c*d + 3*B*a*c*d)*(4*m + 13*n + 39*m*n + 118*m*n^2 + 39*m^2*n + 107*m*n^3 + 13*m^3*n + 6*m^2 + 4*m^3 + m^4 + 59*n^2 + 107*n^3 + 60*n^4 + 59*m^2*n^2 + 1))/(5*m + 15*n + 60*m*n + 255*m*n^2 + 90*m^2*n + 450*m*n^3 + 60*m^3*n + 274*m*n^4 + 15*m^4*n + 10*m^2 + 10*m^3 + 5*m^4 + m^5 + 85*n^2 + 225*n^3 + 274*n^4 + 120*n^5 + 255*m^2*n^2 + 225*m^2*n^3 + 85*m^3*n^2 + 1) + (d*x*x^(3*n)*(e*x)^m*(A*a*d^2 + 3*B*b*c^2 + 3*A*b*c*d + 3*B*a*c*d)*(4*m + 12*n + 36*m*n + 98*m*n^2 + 36*m^2*n + 78*m*n^3 + 12*m^3*n + 6*m^2 + 4*m^3 + m^4 + 49*n^2 + 78*n^3 + 40*n^4 + 49*m^2*n^2 + 1))/(5*m + 15*n + 60*m*n + 255*m*n^2 + 90*m^2*n + 450*m*n^3 + 60*m^3*n + 274*m*n^4 + 15*m^4*n + 10*m^2 + 10*m^3 + 5*m^4 + m^5 + 85*n^2 + 225*n^3 + 274*n^4 + 120*n^5 + 255*m^2*n^2 + 225*m^2*n^3 + 85*m^3*n^2 + 1) + (c^2*x*x^n*(e*x)^m*(3*A*a*d + A*b*c + B*a*c)*(4*m + 14*n + 42*m*n + 142*m*n^2 + 42*m^2*n + 154*m*n^3 + 14*m^3*n + 6*m^2 + 4*m^3 + m^4 + 71*n^2 + 154*n^3 + 120*n^4 + 71*m^2*n^2 + 1))/(5*m + 15*n + 60*m*n + 255*m*n^2 + 90*m^2*n + 450*m*n^3 + 60*m^3*n + 274*m*n

$$\begin{aligned}
&^4 + 15*m^4*n + 10*m^2 + 10*m^3 + 5*m^4 + m^5 + 85*n^2 + 225*n^3 + 274*n^4 \\
&+ 120*n^5 + 255*m^2*n^2 + 225*m^2*n^3 + 85*m^3*n^2 + 1) + (B*b*d^3*x*x^{(5*n)} \\
&)*(e*x)^m*(4*m + 10*n + 30*m*n + 70*m*n^2 + 30*m^2*n + 50*m*n^3 + 10*m^3*n \\
&+ 6*m^2 + 4*m^3 + m^4 + 35*n^2 + 50*n^3 + 24*n^4 + 35*m^2*n^2 + 1))/(5*m + \\
&15*n + 60*m*n + 255*m*n^2 + 90*m^2*n + 450*m*n^3 + 60*m^3*n + 274*m*n^4 + 1 \\
&5*m^4*n + 10*m^2 + 10*m^3 + 5*m^4 + m^5 + 85*n^2 + 225*n^3 + 274*n^4 + 120* \\
&n^5 + 255*m^2*n^2 + 225*m^2*n^3 + 85*m^3*n^2 + 1)
\end{aligned}$$

3.18 $\int (ex)^m (A + Bx^n) (c + dx^n)^3 dx$

Optimal result	957
Rubi [A] (verified)	957
Mathematica [A] (verified)	959
Maple [C] (warning: unable to verify)	959
Fricas [B] (verification not implemented)	960
Sympy [B] (verification not implemented)	961
Maxima [A] (verification not implemented)	970
Giac [B] (verification not implemented)	971
Mupad [B] (verification not implemented)	976

Optimal result

Integrand size = 22, antiderivative size = 137

$$\int (ex)^m (A + Bx^n) (c + dx^n)^3 dx = \frac{c^2(Bc + 3Ad)x^{1+n}(ex)^m}{1 + m + n} + \frac{3cd(Bc + Ad)x^{1+2n}(ex)^m}{1 + m + 2n} + \frac{d^2(3Bc + Ad)x^{1+3n}(ex)^m}{1 + m + 3n} + \frac{Bd^3x^{1+4n}(ex)^m}{1 + m + 4n} + \frac{Ac^3(ex)^{1+m}}{e(1 + m)}$$

[Out] $c^2*(3*A*d+B*c)*x^{(1+n)}*(e*x)^m/(1+m+n)+3*c*d*(A*d+B*c)*x^{(1+2*n)}*(e*x)^m/(1+m+2*n)+d^2*(A*d+3*B*c)*x^{(1+3*n)}*(e*x)^m/(1+m+3*n)+B*d^3*x^{(1+4*n)}*(e*x)^m/(1+m+4*n)+A*c^3*(e*x)^{(1+m)}/e/(1+m)$

Rubi [A] (verified)

Time = 0.08 (sec) , antiderivative size = 137, normalized size of antiderivative = 1.00, number of steps used = 10, number of rules used = 3, $\frac{\text{number of rules}}{\text{integrand size}} = 0.136$, Rules used = {459, 20, 30}

$$\int (ex)^m (A + Bx^n) (c + dx^n)^3 dx = \frac{c^2x^{n+1}(ex)^m(3Ad + Bc)}{m + n + 1} + \frac{d^2x^{3n+1}(ex)^m(Ad + 3Bc)}{m + 3n + 1} + \frac{3cdx^{2n+1}(ex)^m(Ad + Bc)}{m + 2n + 1} + \frac{Ac^3(ex)^{m+1}}{e(m + 1)} + \frac{Bd^3x^{4n+1}(ex)^m}{m + 4n + 1}$$

[In] $\text{Int}[(e*x)^m*(A + B*x^n)*(c + d*x^n)^3,x]$

[Out] $(c^2*(B*c + 3*A*d)*x^{(1 + n)}*(e*x)^m)/(1 + m + n) + (3*c*d*(B*c + A*d)*x^{(1 + 2*n)}*(e*x)^m)/(1 + m + 2*n) + (d^2*(3*B*c + A*d)*x^{(1 + 3*n)}*(e*x)^m)/(1$

$$+ m + 3n) + (B*d^3*x^(1 + 4*n)*(e*x)^m)/(1 + m + 4*n) + (A*c^3*(e*x)^(1 + m))/(e*(1 + m))$$

Rule 20

```
Int[(u_)*((a_)*(v_))^(m_)*((b_)*(v_))^(n_), x_Symbol] := Dist[b^IntPart[
n]*((b*v)^FracPart[n]/(a^IntPart[n]*(a*v)^FracPart[n])), Int[u*(a*v)^(m +
n), x], x] /; FreeQ[{a, b, m, n}, x] && !IntegerQ[m] && !IntegerQ[n] && !
IntegerQ[m + n]
```

Rule 30

```
Int[(x_)^(m_), x_Symbol] := Simp[x^(m + 1)/(m + 1), x] /; FreeQ[m, x] && N
eQ[m, -1]
```

Rule 459

```
Int[((e_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n
_))^(q_), x_Symbol] := Int[ExpandIntegrand[(e*x)^m*(a + b*x^n)^p*(c + d*x^
n)^q, x], x] /; FreeQ[{a, b, c, d, e, m, n}, x] && NeQ[b*c - a*d, 0] && IGt
Q[p, 0] && IGtQ[q, 0]
```

Rubi steps

$$\begin{aligned} \text{integral} &= \int (Ac^3(ex)^m + c^2(Bc + 3Ad)x^n(ex)^m + 3cd(Bc + Ad)x^{2n}(ex)^m \\ &\quad + d^2(3Bc + Ad)x^{3n}(ex)^m + Bd^3x^{4n}(ex)^m) dx \\ &= \frac{Ac^3(ex)^{1+m}}{e(1+m)} + (Bd^3) \int x^{4n}(ex)^m dx + (3cd(Bc + Ad)) \int x^{2n}(ex)^m dx \\ &\quad + (d^2(3Bc + Ad)) \int x^{3n}(ex)^m dx + (c^2(Bc + 3Ad)) \int x^n(ex)^m dx \\ &= \frac{Ac^3(ex)^{1+m}}{e(1+m)} + (Bd^3x^{-m}(ex)^m) \int x^{m+4n} dx + (3cd(Bc + Ad)x^{-m}(ex)^m) \int x^{m+2n} dx \\ &\quad + (d^2(3Bc + Ad)x^{-m}(ex)^m) \int x^{m+3n} dx + (c^2(Bc + 3Ad)x^{-m}(ex)^m) \int x^{m+n} dx \\ &= \frac{c^2(Bc + 3Ad)x^{1+n}(ex)^m}{1+m+n} + \frac{3cd(Bc + Ad)x^{1+2n}(ex)^m}{1+m+2n} \\ &\quad + \frac{d^2(3Bc + Ad)x^{1+3n}(ex)^m}{1+m+3n} + \frac{Bd^3x^{1+4n}(ex)^m}{1+m+4n} + \frac{Ac^3(ex)^{1+m}}{e(1+m)} \end{aligned}$$

Mathematica [A] (verified)

Time = 0.22 (sec) , antiderivative size = 106, normalized size of antiderivative = 0.77

$$\int (ex)^m (A + Bx^n) (c + dx^n)^3 dx = x(ex)^m \left(\frac{Ac^3}{1+m} + \frac{c^2(Bc + 3Ad)x^n}{1+m+n} + \frac{3cd(Bc + Ad)x^{2n}}{1+m+2n} + \frac{d^2(3Bc + Ad)x^{3n}}{1+m+3n} + \frac{Bd^3x^{4n}}{1+m+4n} \right)$$

[In] Integrate[(e*x)^m*(A + B*x^n)*(c + d*x^n)^3,x]

[Out] x*(e*x)^m*((A*c^3)/(1 + m) + (c^2*(B*c + 3*A*d)*x^n)/(1 + m + n) + (3*c*d*(B*c + A*d)*x^(2*n))/(1 + m + 2*n) + (d^2*(3*B*c + A*d)*x^(3*n))/(1 + m + 3*n) + (B*d^3*x^(4*n))/(1 + m + 4*n))

Maple [C] (warning: unable to verify)

Result contains higher order function than in optimal. Order 9 vs. order 3.

Time = 2.43 (sec) , antiderivative size = 1576, normalized size of antiderivative = 11.50

method	result	size
risch	Expression too large to display	1576
parallelrisch	Expression too large to display	2207

[In] int((e*x)^m*(A+B*x^n)*(c+d*x^n)^3,x,method=_RETURNVERBOSE)

[Out] x*(B*d^3*m^4*(x^n)^4+63*B*c*d^2*m*n*(x^n)^3+114*A*c*d^2*m*n^2*(x^n)^2+57*B*c^2*d*m^2*n^2*(x^n)^2+72*B*c^2*d*m^2*n*(x^n)^2+24*A*c*d^2*m^3*n*(x^n)^2+12*A*c*d^2*m^3*(x^n)^2+81*A*c^2*d*m^2*n*x^n+57*A*c*d^2*m^2*n^2*(x^n)^2+36*A*c*d^2*m*n^3*(x^n)^2+9*B*c^3*x^n+n+4*B*d^3*m^3*(x^n)^4+6*B*d^3*n^3*(x^n)^4+4*A*d^3*m^3*(x^n)^3+24*B*c*d^2*m*n^3*(x^n)^3+57*A*c*d^2*n^2*(x^n)^2+10*A*c^3*m^3*n+12*A*c^2*d*m^3*x^n+A*c^3+72*B*c^2*d*m*n*(x^n)^2+81*A*c^2*d*m*n*x^n+36*B*c^2*d*m*n^3*(x^n)^2+156*A*c^2*d*m*n^2*x^n+78*A*c^2*d*m^2*n^2*x^n+4*B*c^3*x^n*m+35*A*c^3*n^2+35*A*c^3*m^2*n^2+24*B*c^2*d*(x^n)^2*n+42*B*c*d^2*n^2*(x^n)^3+3*(x^n)^2*A*c*d^2+4*A*c^3*m+10*A*c^3*n+6*A*d^3*m^2*(x^n)^3+14*A*d^3*n^2*(x^n)^3+B*c^3*m^4*x^n+21*B*c*d^2*m^3*n*(x^n)^3+50*A*c^3*n^3+(x^n)^3*A*d^3+3*A*c^2*d*x^n+6*B*d^3*(x^n)^4*n+12*B*c^2*d*m^3*(x^n)^2+36*B*c^2*d*n^3*(x^n)^2+A*d^3*m^4*(x^n)^3+50*A*c^3*m*n^3+84*B*c*d^2*m*n^2*(x^n)^3+30*A*c^3*m^2*n+70*A*c^3*m*n^2+30*A*c^3*m*n+6*B*c^3*m^2*x^n+A*c^3*m^4+3*B*c*d^2*(x^n)^3+72*A*c*d^2*m*n*(x^n)^2+72*A*c*d^2*m^2*n*(x^n)^2+3*B*c*d^2*m^4*(x^n)^3+36*A*c*d^2*n^3*(x^n)^2+18*B*c*d^2*m^2*(x^n)^3+42*B*c*d^2*m^2*n^2*(x^n)^3+24*B*c^2*d*m^3*n*(x^n)^2+114*B*c^2*d*m*n^2*(x^n)^2+24*A*c^3*n^4+4*A*c^3*m^3+21*A*d^3*m*n*(x^n)^3+63*B*c*d^2*m^2*n*(x^n)^3+6*A*c^3*m^2+9*B*c^3*m^3*n*x^n+27*A*c^2*d*m^3*n*x^n+72*A*c^2*d*m*n^3*x^n+21*B*c*d^2*(x^n)^3*n+18*A*c^2*d*m^2*x^n

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+78*A*c^2*d*n^2*x^n+B*d^3*(x^n)^4+26*B*c^3*n^2*x^n+22*B*d^3*m*n^2*(x^n)^4+3
*A*c*d^2*m^4*(x^n)^2+x^n*B*c^3+4*B*c^3*m^3*x^n+72*A*c^2*d*n^3*x^n+18*A*c*d^
2*m^2*(x^n)^2+3*B*c^2*d*(x^n)^2+4*A*d^3*(x^n)^3*m+7*A*d^3*(x^n)^3*n+12*A*c*
d^2*(x^n)^2*m+24*A*c*d^2*(x^n)^2*n+27*B*c^3*m*n*x^n+26*B*c^3*m^2*n^2*x^n+24
*B*c^3*m*n^3*x^n+18*B*c^2*d*m^2*(x^n)^2+3*B*c^2*d*m^4*(x^n)^2+24*B*c^3*n^3*
x^n+12*B*c^2*d*(x^n)^2*m+8*A*d^3*n^3*(x^n)^3+6*B*d^3*m^2*(x^n)^4+11*B*d^3*n
^2*(x^n)^4+4*m*B*d^3*(x^n)^4+12*B*c*d^2*m^3*(x^n)^3+24*B*c*d^2*n^3*(x^n)^3+
18*B*d^3*m*n*(x^n)^4+3*A*c^2*d*m^4*x^n+12*A*c^2*d*x^n*m+21*A*d^3*m^2*n*(x^n
)^3+28*A*d^3*m*n^2*(x^n)^3+57*B*c^2*d*n^2*(x^n)^2+52*B*c^3*m*n^2*x^n+27*B*c
^3*m^2*n*x^n+14*A*d^3*m^2*n^2*(x^n)^3+8*A*d^3*m*n^3*(x^n)^3+27*A*c^2*d*x^n*
n+6*B*d^3*m^3*n*(x^n)^4+11*B*d^3*m^2*n^2*(x^n)^4+6*B*d^3*m*n^3*(x^n)^4+7*A*
d^3*m^3*n*(x^n)^3+18*B*d^3*m^2*n*(x^n)^4+12*B*c*d^2*(x^n)^3*m)/(1+m)/(1+m+n
)/(1+m+2*n)/(1+m+3*n)/(1+m+4*n)*e^m*x^m*exp(1/2*I*csgn(I*e*x)*Pi*m*(csgn(I*
e*x)-csgn(I*x))*(-csgn(I*e*x)+csgn(I*e)))

```

Fricas [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 1104 vs. $2(137) = 274$.

Time = 0.31 (sec) , antiderivative size = 1104, normalized size of antiderivative = 8.06

$$\int (ex)^m (A + Bx^n)(c + dx^n)^3 dx = \text{Too large to display}$$

```
[In] integrate((e*x)^m*(A+B*x^n)*(c+d*x^n)^3,x, algorithm="fricas")
```

```

[Out] ((B*d^3*m^4 + 4*B*d^3*m^3 + 6*B*d^3*m^2 + 4*B*d^3*m + B*d^3 + 6*(B*d^3*m +
B*d^3)*n^3 + 11*(B*d^3*m^2 + 2*B*d^3*m + B*d^3)*n^2 + 6*(B*d^3*m^3 + 3*B*d^
3*m^2 + 3*B*d^3*m + B*d^3)*n)*x*x^(4*n)*e^(m*log(e) + m*log(x)) + ((3*B*c*d
^2 + A*d^3)*m^4 + 3*B*c*d^2 + A*d^3 + 4*(3*B*c*d^2 + A*d^3)*m^3 + 8*(3*B*c*
d^2 + A*d^3 + (3*B*c*d^2 + A*d^3)*m)*n^3 + 6*(3*B*c*d^2 + A*d^3)*m^2 + 14*(
3*B*c*d^2 + A*d^3 + (3*B*c*d^2 + A*d^3)*m^2 + 2*(3*B*c*d^2 + A*d^3)*m)*n^2
+ 4*(3*B*c*d^2 + A*d^3)*m + 7*(3*B*c*d^2 + A*d^3 + (3*B*c*d^2 + A*d^3)*m^3
+ 3*(3*B*c*d^2 + A*d^3)*m^2 + 3*(3*B*c*d^2 + A*d^3)*m)*n)*x*x^(3*n)*e^(m*lo
g(e) + m*log(x)) + 3*((B*c^2*d + A*c*d^2)*m^4 + B*c^2*d + A*c*d^2 + 4*(B*c^
2*d + A*c*d^2)*m^3 + 12*(B*c^2*d + A*c*d^2 + (B*c^2*d + A*c*d^2)*m)*n^3 + 6
*(B*c^2*d + A*c*d^2)*m^2 + 19*(B*c^2*d + A*c*d^2 + (B*c^2*d + A*c*d^2)*m^2
+ 2*(B*c^2*d + A*c*d^2)*m)*n^2 + 4*(B*c^2*d + A*c*d^2)*m + 8*(B*c^2*d + A*c
*d^2 + (B*c^2*d + A*c*d^2)*m^3 + 3*(B*c^2*d + A*c*d^2)*m^2 + 3*(B*c^2*d + A
*c*d^2)*m)*n)*x*x^(2*n)*e^(m*log(e) + m*log(x)) + ((B*c^3 + 3*A*c^2*d)*m^4
+ B*c^3 + 3*A*c^2*d + 4*(B*c^3 + 3*A*c^2*d)*m^3 + 24*(B*c^3 + 3*A*c^2*d + (
B*c^3 + 3*A*c^2*d)*m)*n^3 + 6*(B*c^3 + 3*A*c^2*d)*m^2 + 26*(B*c^3 + 3*A*c^2
*d + (B*c^3 + 3*A*c^2*d)*m^2 + 2*(B*c^3 + 3*A*c^2*d)*m)*n^2 + 4*(B*c^3 + 3*
A*c^2*d)*m + 9*(B*c^3 + 3*A*c^2*d + (B*c^3 + 3*A*c^2*d)*m^3 + 3*(B*c^3 + 3*
A*c^2*d)*m^2 + 3*(B*c^3 + 3*A*c^2*d)*m)*n)*x*x^n*e^(m*log(e) + m*log(x)) +
(A*c^3*m^4 + 24*A*c^3*n^4 + 4*A*c^3*m^3 + 6*A*c^3*m^2 + 4*A*c^3*m + A*c^3 +

```


$50*(A*c^3*m + A*c^3)*n^3 + 35*(A*c^3*m^2 + 2*A*c^3*m + A*c^3)*n^2 + 10*(A*c^3*m^3 + 3*A*c^3*m^2 + 3*A*c^3*m + A*c^3)*n)*x*e^{(m*\log(e) + m*\log(x))}/(m^5 + 24*(m + 1)*n^4 + 5*m^4 + 50*(m^2 + 2*m + 1)*n^3 + 10*m^3 + 35*(m^3 + 3*m^2 + 3*m + 1)*n^2 + 10*m^2 + 10*(m^4 + 4*m^3 + 6*m^2 + 4*m + 1)*n + 5*m + 1)$

Sympy [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 16781 vs. $2(128) = 256$.

Time = 5.49 (sec) , antiderivative size = 16781, normalized size of antiderivative = 122.49

$$\int (ex)^m (A + Bx^n) (c + dx^n)^3 dx = \text{Too large to display}$$

[In] integrate((e*x)**m*(A+B*x**n)*(c+d*x**n)**3,x)

[Out] Piecewise(((A + B)*(c + d)**3*log(x)/e, Eq(m, -1) & Eq(n, 0)), ((A*c**3*log(x) + 3*A*c**2*d*x**n/n + 3*A*c*d**2*x**(2*n)/(2*n) + A*d**3*x**(3*n)/(3*n) + B*c**3*x**n/n + 3*B*c**2*d*x**(2*n)/(2*n) + B*c*d**2*x**(3*n)/n + B*d**3*x**(4*n)/(4*n))/e, Eq(m, -1)), (A*c**3*Piecewise((0**(-4*n - 1)*x, Eq(e, 0)), (Piecewise((-1/(4*n*(e*x)**(4*n)), Ne(n, 0)), (log(e*x), True))/e, True)) + 3*A*c**2*d*Piecewise((-x*x**n*(e*x)**(-4*n - 1)/(3*n), Ne(n, 0)), (x*x**n*(e*x)**(-4*n - 1)*log(x), True)) + 3*A*c*d**2*Piecewise((-x*x**(2*n)*(e*x)**(-4*n - 1)/(2*n), Ne(n, 0)), (x*x**(2*n)*(e*x)**(-4*n - 1)*log(x), True)) + A*d**3*Piecewise((-x*x**(3*n)*(e*x)**(-4*n - 1)/n, Ne(n, 0)), (x*x**(3*n)*(e*x)**(-4*n - 1)*log(x), True)) + B*c**3*Piecewise((-x*x**n*(e*x)**(-4*n - 1)/(3*n), Ne(n, 0)), (x*x**n*(e*x)**(-4*n - 1)*log(x), True)) + 3*B*c**2*d*Piecewise((-x*x**(2*n)*(e*x)**(-4*n - 1)/(2*n), Ne(n, 0)), (x*x**(2*n)*(e*x)**(-4*n - 1)*log(x), True)) + 3*B*c*d**2*Piecewise((-x*x**(3*n)*(e*x)**(-4*n - 1)/n, Ne(n, 0)), (x*x**(3*n)*(e*x)**(-4*n - 1)*log(x), True)) + B*d**3*x*x**(4*n)*(e*x)**(-4*n - 1)*log(x), Eq(m, -4*n - 1)), (A*c**3*Piecewise((0**(-3*n - 1)*x, Eq(e, 0)), (Piecewise((-1/(3*n*(e*x)**(3*n)), Ne(n, 0)), (log(e*x), True))/e, True)) + 3*A*c**2*d*Piecewise((-x*x**n*(e*x)**(-3*n - 1)/(2*n), Ne(n, 0)), (x*x**n*(e*x)**(-3*n - 1)*log(x), True)) + 3*A*c*d**2*Piecewise((-x*x**(2*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x*x**(2*n)*(e*x)**(-3*n - 1)*log(x), True)) + A*d**3*x*x**(3*n)*(e*x)**(-3*n - 1)*log(x) + B*c**3*Piecewise((-x*x**n*(e*x)**(-3*n - 1)/(2*n), Ne(n, 0)), (x*x**n*(e*x)**(-3*n - 1)*log(x), True)) + 3*B*c**2*d*Piecewise((-x*x**(2*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x*x**(2*n)*(e*x)**(-3*n - 1)*log(x), True)) + 3*B*c*d**2*x*x**(3*n)*(e*x)**(-3*n - 1)*log(x) + B*d**3*Piecewise((x*x**(4*n)*(e*x)**(-3*n - 1)/n, Ne(n, 0)), (x*x**(4*n)*(e*x)**(-3*n - 1)*log(x), True)), Eq(m, -3*n - 1)), (A*c**3*Piecewise((0**(-2*n - 1)*x, Eq(e, 0)), (Piecewise((-1/(2*n*(e*x)**(2*n)), Ne(n, 0)), (log(e*x), True))/e, True)) + 3*A*c**2*d*Piecewise((-x*x**n*(e*x)**(-2*n - 1)/n, Ne(n, 0)), (x*x**n*(e*x)**(-2*n - 1)*log(x), True)) + 3*A*c*d**2*x*x**(2*n)*(e*x)**(-2*n - 1)*log(x) + A*d

```

*3*Piecewise((x*x**(3*n)*(e*x)**(-2*n - 1)/n, Ne(n, 0)), (x*x**(3*n)*(e*x)*
*(-2*n - 1)*log(x), True)) + B*c**3*Piecewise((-x*x**n*(e*x)**(-2*n - 1)/n,
Ne(n, 0)), (x*x**n*(e*x)**(-2*n - 1)*log(x), True)) + 3*B*c**2*d*x*x**(2*n
)*(e*x)**(-2*n - 1)*log(x) + 3*B*c*d**2*Piecewise((x*x**(3*n)*(e*x)**(-2*n
- 1)/n, Ne(n, 0)), (x*x**(3*n)*(e*x)**(-2*n - 1)*log(x), True)) + B*d**3*Pi
ecwise((x*x**(4*n)*(e*x)**(-2*n - 1)/(2*n), Ne(n, 0)), (x*x**(4*n)*(e*x)**
(-2*n - 1)*log(x), True)), Eq(m, -2*n - 1)), (A*c**3*Piecewise((0**(-n - 1)
*x, Eq(e, 0)), (Piecewise((-1/(n*(e*x)**n), Ne(n, 0)), (log(e*x), True))/e,
True)) + 3*A*c**2*d*x*x**n*(e*x)**(-n - 1)*log(x) + 3*A*c*d**2*Piecewise((
x*x**(2*n)*(e*x)**(-n - 1)/n, Ne(n, 0)), (x*x**(2*n)*(e*x)**(-n - 1)*log(x)
, True)) + A*d**3*Piecewise((x*x**(3*n)*(e*x)**(-n - 1)/(2*n), Ne(n, 0)), (
x*x**(3*n)*(e*x)**(-n - 1)*log(x), True)) + B*c**3*x*x**n*(e*x)**(-n - 1)*l
og(x) + 3*B*c**2*d*Piecewise((x*x**(2*n)*(e*x)**(-n - 1)/n, Ne(n, 0)), (x*x
**(2*n)*(e*x)**(-n - 1)*log(x), True)) + 3*B*c*d**2*Piecewise((x*x**(3*n)*(
e*x)**(-n - 1)/(2*n), Ne(n, 0)), (x*x**(3*n)*(e*x)**(-n - 1)*log(x), True))
+ B*d**3*Piecewise((x*x**(4*n)*(e*x)**(-n - 1)/(3*n), Ne(n, 0)), (x*x**(4*
n)*(e*x)**(-n - 1)*log(x), True)), Eq(m, -n - 1)), (A*c**3*m**4*x*(e*x)**m/
(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n
**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*
n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 10*A*c**3*m
**3*n*x*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10
*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 10
0*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n +
1) + 4*A*c**3*m**3*x*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 +
40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 +
24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35
*n**2 + 10*n + 1) + 35*A*c**3*m**2*n**2*x*(e*x)**m/(m**5 + 10*m**4*n + 5*m*
**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60
*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24
*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 30*A*c**3*m**2*n*x*(e*x)**m/(m**5 +
10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 1
05*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 +
40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 6*A*c**3*m**2*x*(e
*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50
*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 +
105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 50*A
*c**3*m*n**3*x*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3
*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n*
**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 +
10*n + 1) + 70*A*c**3*m*n**2*x*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m*
**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n +
10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50
*n**3 + 35*n**2 + 10*n + 1) + 30*A*c**3*m*n*x*(e*x)**m/(m**5 + 10*m**4*n +
5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2
+ 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m

```

$$\begin{aligned}
& + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 4*A*c^{**3}*m*x*(e*x)**m/(m^{**5} + 1 \\
& 0*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105 \\
& *m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40 \\
& *m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 24*A*c^{**3}*n^{**4}*x*(e* \\
& x)**m/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50* \\
& m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + \\
& 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 50*A* \\
& c^{**3}*n^{**3}*x*(e*x)**m/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n \\
& + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} \\
& + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10 \\
& *n + 1) + 35*A*c^{**3}*n^{**2}*x*(e*x)**m/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{** \\
& *2 + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m \\
& *2 + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} \\
& + 35*n^{**2} + 10*n + 1) + 10*A*c^{**3}*n*x*(e*x)**m/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} \\
& + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m \\
& *2*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{** \\
& *4 + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + A*c^{**3}*x*(e*x)**m/(m^{**5} + 10*m^{**4}*n + \\
& 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} \\
& + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m \\
& + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 3*A*c^{**2}*d*m^{**4}*x*x**n*(e*x)**m \\
& /(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}* \\
& n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m \\
& *n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 27*A*c^{**2}* \\
& d*m^{**3}*n*x*x**n*(e*x)**m/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{** \\
& 3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n \\
& **4 + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} \\
& + 10*n + 1) + 12*A*c^{**2}*d*m^{**3}*x*x**n*(e*x)**m/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + \\
& 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{** \\
& 2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{** \\
& 4 + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 78*A*c^{**2}*d*m^{**2}*n^{**2}*x*x**n*(e*x)**m/(\\
& m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n \\
& *3 + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n \\
& **2 + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 81*A*c^{**2}*d* \\
& m^{**2}*n*x*x**n*(e*x)**m/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3} \\
& n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{** \\
& 4 + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + \\
& 10*n + 1) + 18*A*c^{**2}*d*m^{**2}*x*x**n*(e*x)**m/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 3 \\
& 5*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2} \\
& n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} \\
& + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 72*A*c^{**2}*d*m*n^{**3}*x*x**n*(e*x)**m/(m^{**5} \\
& + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + \\
& 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + \\
& 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 156*A*c^{**2}*d*m*n* \\
& *2*x*x**n*(e*x)**m/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + \\
& 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} +
\end{aligned}$$

$$\begin{aligned}
& 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n \\
& + 1) + 81*A*c**2*d*m*n*x*x**n*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m** \\
& 3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 1 \\
& 0*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50* \\
& n**3 + 35*n**2 + 10*n + 1) + 12*A*c**2*d*m*x*x**n*(e*x)**m/(m**5 + 10*m**4*n \\
& + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n \\
& **2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + \\
& 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 72*A*c**2*d*n**3*x*x**n*(e \\
& x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50* \\
& m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + \\
& 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 78*A* \\
& c**2*d*n**2*x*x**n*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40* \\
& m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24* \\
& m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n* \\
& *2 + 10*n + 1) + 27*A*c**2*d*n*x*x**n*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + \\
& 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m** \\
& 2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n** \\
& 4 + 50*n**3 + 35*n**2 + 10*n + 1) + 3*A*c**2*d*x*x**n*(e*x)**m/(m**5 + 10*m \\
& **4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m* \\
& *2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m* \\
& n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 3*A*c*d**2*m**4*x*x** \\
& (2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m** \\
& 3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m* \\
& n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) \\
& + 24*A*c*d**2*m**3*n*x*x** \\
& (2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m \\
& *3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + \\
& 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50 \\
& *n**3 + 35*n**2 + 10*n + 1) + 12*A*c*d**2*m**3*x*x** \\
& (2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 10 \\
& 5*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 4 \\
& 0*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 57*A*c*d**2*m**2*n* \\
& *2*x*x** \\
& (2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n \\
& + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n** \\
& 4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + \\
& 10*n + 1) + 72*A*c*d**2*m**2*n*x*x** \\
& (2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m** \\
& *4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60 \\
& *m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24 \\
& *n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 18*A*c*d**2*m**2*x*x** \\
& (2*n)*(e*x)** \\
& m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2 \\
& *n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105* \\
& m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 36*A*c*d* \\
& *2*m*n**3*x*x** \\
& (2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 4 \\
& 0*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 2 \\
& 4*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35* \\
& n**2 + 10*n + 1) + 114*A*c*d**2*m*n**2*x*x** \\
& (2*n)*(e*x)**m/(m**5 + 10*m**4*n
\end{aligned}$$

$$\begin{aligned}
& **2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 28*A*d**3*m* \\
& n**2*x*x**(3*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m** \\
& 3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n \\
& **4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 \\
& + 10*n + 1) + 21*A*d**3*m*n*x*x**(3*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 \\
& + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m* \\
& *2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n \\
& *4 + 50*n**3 + 35*n**2 + 10*n + 1) + 4*A*d**3*m*x*x**(3*n)*(e*x)**m/(m**5 + \\
& 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 1 \\
& 05*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + \\
& 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 8*A*d**3*n**3*x*x* \\
& *(3*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10* \\
& m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100 \\
& *m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + \\
& 1) + 14*A*d**3*n**2*x*x**(3*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m** \\
& 3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 1 \\
& 0*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50* \\
& n**3 + 35*n**2 + 10*n + 1) + 7*A*d**3*n*x*x**(3*n)*(e*x)**m/(m**5 + 10*m**4 \\
& *n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2* \\
& n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + \\
& 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + A*d**3*x*x**(3*n)*(e*x)**m \\
& /(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2* \\
& n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m \\
& *n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + B*c**3*m** \\
& 4*x*x**n*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 1 \\
& 0*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 1 \\
& 00*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n \\
& + 1) + 9*B*c**3*m**3*n*x*x**n*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3 \\
& *n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10 \\
& *m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n \\
& **3 + 35*n**2 + 10*n + 1) + 4*B*c**3*m**3*x*x**n*(e*x)**m/(m**5 + 10*m**4*n \\
& + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n* \\
& *2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5 \\
& *m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 26*B*c**3*m**2*n**2*x*x**n*(\\
& e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 5 \\
& 0*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 \\
& + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 27* \\
& B*c**3*m**2*n*x*x**n*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 4 \\
& 0*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 2 \\
& 4*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35* \\
& n**2 + 10*n + 1) + 6*B*c**3*m**2*x*x**n*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 \\
& + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m \\
& **2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n \\
& **4 + 50*n**3 + 35*n**2 + 10*n + 1) + 24*B*c**3*m*n**3*x*x**n*(e*x)**m/(m** \\
& 5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3
\end{aligned}$$

$$\begin{aligned}
& + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} \\
& + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 52*B*c^{**3}*m*n^{**2} \\
& *x*x^{**n}*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 1 \\
& 0*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 1 \\
& 00*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n \\
& + 1) + 27*B*c^{**3}*m*n*x*x^{**n}*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n \\
& **2 + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m \\
& **2 + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{** \\
& 3 + 35*n^{**2} + 10*n + 1) + 4*B*c^{**3}*m*x*x^{**n}*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5* \\
& m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + \\
& 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + \\
& 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 24*B*c^{**3}*n^{**3}*x*x^{**n}*(e*x)^{**m}/(m \\
& **5 + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{** \\
& 3 + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{** \\
& *2 + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 26*B*c^{**3}*n^{** \\
& 2*x*x^{**n}*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 1 \\
& 0*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 1 \\
& 00*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n \\
& + 1) + 9*B*c^{**3}*n*x*x^{**n}*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} \\
& + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} \\
& + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + \\
& 35*n^{**2} + 10*n + 1) + B*c^{**3}*x*x^{**n}*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + \\
& 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2} \\
& *n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} \\
& + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 3*B*c^{**2}*d*m^{**4}*x*x^{**2}*n*(e*x)^{**m}/(m^{** \\
& 5 + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} \\
& + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} \\
& + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 24*B*c^{**2}*d*m^{** \\
& 3}*n*x*x^{**2}*n*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3} \\
& *n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{** \\
& *4 + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + \\
& 10*n + 1) + 12*B*c^{**2}*d*m^{**3}*x*x^{**2}*n*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{** \\
& 4 + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60* \\
& m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24* \\
& n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 57*B*c^{**2}*d*m^{**2}*n^{**2}*x*x^{**2}*n*(e* \\
& x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50* \\
& m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + \\
& 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 72*B* \\
& c^{**2}*d*m^{**2}*n*x*x^{**2}*n*(e*x)^{**m}/(m^{**5} + 10*m^{**4}*n + 5*m^{**4} + 35*m^{**3}*n^{**2} \\
& + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}*n^{**2} + 60*m^{**2}*n + 10*m^{**2} \\
& + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + 5*m + 24*n^{**4} + 50*n^{**3} + \\
& 35*n^{**2} + 10*n + 1) + 18*B*c^{**2}*d*m^{**2}*x*x^{**2}*n*(e*x)^{**m}/(m^{**5} + 10*m^{**4} \\
& *n + 5*m^{**4} + 35*m^{**3}*n^{**2} + 40*m^{**3}*n + 10*m^{**3} + 50*m^{**2}*n^{**3} + 105*m^{**2}* \\
& n^{**2} + 60*m^{**2}*n + 10*m^{**2} + 24*m*n^{**4} + 100*m*n^{**3} + 105*m*n^{**2} + 40*m*n + \\
& 5*m + 24*n^{**4} + 50*n^{**3} + 35*n^{**2} + 10*n + 1) + 36*B*c^{**2}*d*m*n^{**3}*x*x^{**2}
\end{aligned}$$

$$\begin{aligned}
& *n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m** \\
& 3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m* \\
& n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) \\
& + 114*B*c**2*d*m*n**2*x*x**(2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m \\
& **3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + \\
& 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 5 \\
& 0*n**3 + 35*n**2 + 10*n + 1) + 72*B*c**2*d*m*n*x*x**(2*n)*(e*x)**m/(m**5 + \\
& 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 10 \\
& 5*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 4 \\
& 0*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 12*B*c**2*d*m*x*x** \\
& (2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m \\
& **3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100* \\
& m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1 \\
&) + 36*B*c**2*d*n**3*x*x**(2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m* \\
& **3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + \\
& 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50 \\
& *n**3 + 35*n**2 + 10*n + 1) + 57*B*c**2*d*n**2*x*x**(2*n)*(e*x)**m/(m**5 + \\
& 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 10 \\
& 5*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 4 \\
& 0*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 24*B*c**2*d*n*x*x** \\
& (2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m \\
& **3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100* \\
& m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1 \\
&) + 3*B*c**2*d*x*x**(2*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n** \\
& 2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m** \\
& 2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 \\
& + 35*n**2 + 10*n + 1) + 3*B*c*d**2*m**4*x*x**(3*n)*(e*x)**m/(m**5 + 10*m**4 \\
& *n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2* \\
& n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + \\
& 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 21*B*c*d**2*m**3*n*x*x**(3 \\
& *n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m** \\
& 3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m* \\
& n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) \\
& + 12*B*c*d**2*m**3*x*x**(3*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3 \\
& *n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10 \\
& *m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n \\
& **3 + 35*n**2 + 10*n + 1) + 42*B*c*d**2*m**2*n**2*x*x**(3*n)*(e*x)**m/(m**5 \\
& + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + \\
& 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 \\
& + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 63*B*c*d**2*m**2 \\
& *n*x*x**(3*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3* \\
& n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n** \\
& 4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + \\
& 10*n + 1) + 18*B*c*d**2*m**2*x*x**(3*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 \\
& + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m
\end{aligned}$$

$$\begin{aligned}
& **2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n \\
& **4 + 50*n**3 + 35*n**2 + 10*n + 1) + 24*B*c*d**2*m*n**3*x*x**(3*n)*(e*x)** \\
& m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2 \\
& *n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105* \\
& m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 84*B*c*d* \\
& *2*m*n**2*x*x**(3*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 4 \\
& 0*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 2 \\
& 4*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35* \\
& n**2 + 10*n + 1) + 63*B*c*d**2*m*n*x*x**(3*n)*(e*x)**m/(m**5 + 10*m**4*n + \\
& 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 \\
& + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m \\
& + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 12*B*c*d**2*m*x*x**(3*n)*(e*x)* \\
& *m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m** \\
& 2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105 \\
& *m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 24*B*c*d \\
& **2*n**3*x*x**(3*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40 \\
& *m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24 \\
& *m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n \\
& **2 + 10*n + 1) + 42*B*c*d**2*n**2*x*x**(3*n)*(e*x)**m/(m**5 + 10*m**4*n + \\
& 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 \\
& + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m \\
& + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 21*B*c*d**2*n*x*x**(3*n)*(e*x)* \\
& *m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m** \\
& 2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105 \\
& *m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 3*B*c*d* \\
& *2*x*x**(3*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3* \\
& n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n** \\
& 4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + \\
& 10*n + 1) + B*d**3*m**4*x*x**(4*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35 \\
& *m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n \\
& + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + \\
& 50*n**3 + 35*n**2 + 10*n + 1) + 6*B*d**3*m**3*n*x*x**(4*n)*(e*x)**m/(m**5 \\
& + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + \\
& 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + \\
& 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 4*B*d**3*m**3*x*x \\
& **4*n*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10 \\
& *m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 10 \\
& 0*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + \\
& 1) + 11*B*d**3*m**2*n**2*x*x**(4*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + \\
& 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2 \\
& *n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 \\
& + 50*n**3 + 35*n**2 + 10*n + 1) + 18*B*d**3*m**2*n*x*x**(4*n)*(e*x)**m/(m \\
& *5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 \\
& + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n** \\
& 2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 6*B*d**3*m**2*
\end{aligned}$$

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x*x**(4*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n +
  10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 +
  100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*
n + 1) + 6*B*d**3*m*n**3*x*x**(4*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 3
5*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n
+ 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4
+ 50*n**3 + 35*n**2 + 10*n + 1) + 22*B*d**3*m*n**2*x*x**(4*n)*(e*x)**m/(m**
5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3
+ 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2
+ 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 18*B*d**3*m*n*x
*x**(4*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n +
  10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 +
  100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n
+ 1) + 4*B*d**3*m*x*x**(4*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3
*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10
*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n
**3 + 35*n**2 + 10*n + 1) + 6*B*d**3*n**3*x*x**(4*n)*(e*x)**m/(m**5 + 10*m*
**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**
2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n
+ 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) + 11*B*d**3*n**2*x*x**(4*n
)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 + 40*m**3*n + 10*m**3
+ 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 + 24*m*n**4 + 100*m*n
**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35*n**2 + 10*n + 1) +
6*B*d**3*n*x*x**(4*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 + 35*m**3*n**2 +
40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**2*n + 10*m**2 +
24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**4 + 50*n**3 + 35
*n**2 + 10*n + 1) + B*d**3*x*x**(4*n)*(e*x)**m/(m**5 + 10*m**4*n + 5*m**4 +
  35*m**3*n**2 + 40*m**3*n + 10*m**3 + 50*m**2*n**3 + 105*m**2*n**2 + 60*m**
2*n + 10*m**2 + 24*m*n**4 + 100*m*n**3 + 105*m*n**2 + 40*m*n + 5*m + 24*n**
4 + 50*n**3 + 35*n**2 + 10*n + 1), True))

```

Maxima [A] (verification not implemented)

none

Time = 0.21 (sec) , antiderivative size = 219, normalized size of antiderivative = 1.60

$$\int (ex)^m (A + Bx^n) (c + dx^n)^3 dx = \frac{Bd^3 e^m x e^{(m \log(x) + 4n \log(x))}}{m + 4n + 1} + \frac{3 Bcd^2 e^m x e^{(m \log(x) + 3n \log(x))}}{m + 3n + 1} + \frac{Ad^3 e^m x e^{(m \log(x) + 3n \log(x))}}{m + 3n + 1} + \frac{3 Bc^2 d e^m x e^{(m \log(x) + 2n \log(x))}}{m + 2n + 1} + \frac{3 Acd^2 e^m x e^{(m \log(x) + 2n \log(x))}}{m + 2n + 1} + \frac{Bc^3 e^m x e^{(m \log(x) + n \log(x))}}{m + n + 1} + \frac{3 Ac^2 d e^m x e^{(m \log(x) + n \log(x))}}{m + n + 1} + \frac{(ex)^{m+1} Ac^3}{e(m+1)}$$

[In] integrate((e*x)^m*(A+B*x^n)*(c+d*x^n)^3,x, algorithm="maxima")

[Out] B*d^3*e^m*x*e^(m*log(x) + 4*n*log(x))/(m + 4*n + 1) + 3*B*c*d^2*e^m*x*e^(m*log(x) + 3*n*log(x))/(m + 3*n + 1) + A*d^3*e^m*x*e^(m*log(x) + 3*n*log(x))/(m + 3*n + 1) + 3*B*c^2*d*e^m*x*e^(m*log(x) + 2*n*log(x))/(m + 2*n + 1) + 3*A*c*d^2*e^m*x*e^(m*log(x) + 2*n*log(x))/(m + 2*n + 1) + B*c^3*e^m*x*e^(m*log(x) + n*log(x))/(m + n + 1) + 3*A*c^2*d*e^m*x*e^(m*log(x) + n*log(x))/(m + n + 1) + (e*x)^(m + 1)*A*c^3/(e*(m + 1))

Giac [B] (verification not implemented)

Leaf count of result is larger than twice the leaf count of optimal. 7893 vs. 2(137) = 274.

Time = 0.32 (sec) , antiderivative size = 7893, normalized size of antiderivative = 57.61

$$\int (ex)^m (A + Bx^n) (c + dx^n)^3 dx = \text{Too large to display}$$

[In] integrate((e*x)^m*(A+B*x^n)*(c+d*x^n)^3,x, algorithm="giac")

[Out] (B*d^3*m^4*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 6*B*d^3*m^3*n*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 11*B*d^3*m^2*n^2*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 6*B*d^3*m*n^3*x*x^(4*n)*e^(m*log(e) + m*log(x)) + 3*B*c*d^2*m^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + A*d^3*m^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + B*d^3*m^4*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 21*B*c*d^2*m^3*n*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 7*A*d^3*m^3*n*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 6*B*d^3*m^3*n*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 42*B*c*d^2*m^2*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 14*A*d^3*m^2*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 11*B*d^3*m^2*n^2*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 24*B*c*d^2*m*n^3*x*x^(3*n)*e^(m*log(e) + m*log(x)) + 8*A*d^3*m*n^3*x*x^(3*n)*e^(m*log(e) + m*log(x))

$\log(x)) + 6*B*d^3*m*n^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*c^2*d*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3*A*c*d^2*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*c*d^2*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + A*d^3*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + B*d^3*m^4*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 24*B*c^2*d*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 24*A*c*d^2*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 21*B*c*d^2*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 7*A*d^3*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 6*B*d^3*m^3*n*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 57*B*c^2*d*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 57*A*c*d^2*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 42*B*c*d^2*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 14*A*d^3*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 11*B*d^3*m^2*n^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 36*B*c^2*d*m*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 36*A*c*d^2*m*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 24*B*c*d^2*m*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 8*A*d^3*m*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 6*B*d^3*m*n^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + B*c^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3*A*c^2*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3*B*c^2*d*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3*A*c*d^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3*B*c*d^2*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + A*d^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + B*d^3*m^4*x*x^n*e^{(m*\log(e) + m*\log(x))} + 9*B*c^3*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 27*A*c^2*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 24*B*c^2*d*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 24*A*c*d^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 21*B*c*d^2*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 7*A*d^3*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 6*B*d^3*m^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 26*B*c^3*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 78*A*c^2*d*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 57*B*c^2*d*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 57*A*c*d^2*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 42*B*c*d^2*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 14*A*d^3*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 11*B*d^3*m^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 24*B*c^3*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 72*A*c^2*d*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 36*B*c^2*d*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 36*A*c*d^2*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 24*B*c*d^2*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 8*A*d^3*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 6*B*d^3*m*n^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + A*c^3*m^4*x*x*e^{(m*\log(e) + m*\log(x))} + B*c^3*m^4*x*x*e^{(m*\log(e) + m*\log(x))} + 3*A*c^2*d*m^4*x*x*e^{(m*\log(e) + m*\log(x))} + 3*B*c^2*d*m^4*x*x*e^{(m*\log(e) + m*\log(x))} + 3*A*c*d^2*m^4*x*x*e^{(m*\log(e) + m*\log(x))} + 3*B*c*d^2*m^4*x*x*e^{(m*\log(e) + m*\log(x))} + A*d^3*m^4*x*x*e^{(m*\log(e) + m*\log(x))} + B*d^3*m^4*x*x*e^{(m*\log(e) + m*\log(x))} + 10*A*c^3*m^3*n*x*x*e^{(m*\log(e) + m*\log(x))} + 27*B*c^3*m^3*n*x*x*e^{(m*\log(e) + m*\log(x))} + 27*A*c^2*d*m^3*n*x*x*e^{(m*\log(e) + m*\log(x))} + 24*B*c^2*d*m^3*n*x*x*e^{(m*\log(e) + m*\log(x))} + 24*A*c*d^2*m^3*n*x*x*e^{(m*\log(e) + m*\log(x))} + 21*B*c*d^2*m^3*n*x*x*e^{(m*\log(e) + m*\log(x))} + 7*A*d^3*m^3*n*x*x*e^{(m*\log(e) + m*\log(x))} + 6*B*d^3*m^3*n*x*x*e^{(m*\log(e) + m*\log(x))} + 35*A*c^3*m^2*n^2*x*x*e^{(m*\log(e) + m*\log(x))} + 26*B*c^3*m^2*n^2*x*x*e^{(m*\log(e) + m*\log(x))} + 78*A*c^2*d*m^2*n^2*x*x*e^{(m*\log(e) + m*\log(x))} + 57*B*c^2*d*m^2*n^2*x*x*e^{(m*\log(e) + m*\log(x))} + 57*A*c*d^2*m^2*n^2*x*x*e^{(m*\log(e) + m*\log(x))} + 42*B*c*d^2*m^2*n^2*x*x*e^{(m*\log(e) + m*\log(x))} + 14*A*d^3$

$$\begin{aligned}
& *m^2n^2x^e^{(m\log(e) + m\log(x))} + 11*B*d^3m^2n^2x^e^{(m\log(e) + m\log(x))} + 50*A*c^3m^n^3x^e^{(m\log(e) + m\log(x))} + 24*B*c^3m^n^3x^e^{(m\log(e) + m\log(x))} + 72*A*c^2*d*m^n^3x^e^{(m\log(e) + m\log(x))} + 36*B*c^2*d*m^n^3x^e^{(m\log(e) + m\log(x))} + 36*A*c*d^2m^n^3x^e^{(m\log(e) + m\log(x))} + 24*B*c*d^2m^n^3x^e^{(m\log(e) + m\log(x))} + 8*A*d^3m^n^3x^e^{(m\log(e) + m\log(x))} + 6*B*d^3m^n^3x^e^{(m\log(e) + m\log(x))} + 24*A*c^3n^4x^e^{(m\log(e) + m\log(x))} + 4*B*d^3m^3x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 18*B*d^3m^2n^2x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 22*B*d^3m^n^2x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 6*B*d^3n^3x^x^{(4n)}e^{(m\log(e) + m\log(x))} + 12*B*c*d^2m^3x^x^{(3n)}e^{(m\log(e) + m\log(x))} + 4*A*d^3m^3x^x^{(3n)}e^{(m\log(e) + m\log(x))} + 4*B*d^3m^3x^x^{(3n)}e^{(m\log(e) + m\log(x))} + 63*B*c*d^2m^2n^2x^x^{(3n)}e^{(m\log(e) + m\log(x))} + 21*A*d^3m^2n^2x^x^{(3n)}e^{(m\log(e) + m\log(x))} + 18*B*d^3m^2n^2x^x^{(3n)}e^{(m\log(e) + m\log(x))} + 84*B*c*d^2m^n^2x^x^{(3n)}e^{(m\log(e) + m\log(x))} + 28*A*d^3m^n^2x^x^{(3n)}e^{(m\log(e) + m\log(x))} + 22*B*d^3m^n^2x^x^{(3n)}e^{(m\log(e) + m\log(x))} + 24*B*c*d^2n^3x^x^{(3n)}e^{(m\log(e) + m\log(x))} + 8*A*d^3n^3x^x^{(3n)}e^{(m\log(e) + m\log(x))} + 6*B*d^3n^3x^x^{(3n)}e^{(m\log(e) + m\log(x))} + 12*B*c^2*d*m^3x^x^{(2n)}e^{(m\log(e) + m\log(x))} + 12*A*c*d^2m^3x^x^{(2n)}e^{(m\log(e) + m\log(x))} + 12*B*c*d^2m^3x^x^{(2n)}e^{(m\log(e) + m\log(x))} + 4*A*d^3m^3x^x^{(2n)}e^{(m\log(e) + m\log(x))} + 4*B*d^3m^3x^x^{(2n)}e^{(m\log(e) + m\log(x))} + 72*B*c^2*d*m^2n^2x^x^{(2n)}e^{(m\log(e) + m\log(x))} + 72*A*c*d^2m^2n^2x^x^{(2n)}e^{(m\log(e) + m\log(x))} + 63*B*c*d^2m^2n^2x^x^{(2n)}e^{(m\log(e) + m\log(x))} + 21*A*d^3m^2n^2x^x^{(2n)}e^{(m\log(e) + m\log(x))} + 18*B*d^3m^2n^2x^x^{(2n)}e^{(m\log(e) + m\log(x))} + 114*B*c^2*d*m^n^2x^x^{(2n)}e^{(m\log(e) + m\log(x))} + 114*A*c*d^2m^n^2x^x^{(2n)}e^{(m\log(e) + m\log(x))} + 84*B*c*d^2m^n^2x^x^{(2n)}e^{(m\log(e) + m\log(x))} + 28*A*d^3m^n^2x^x^{(2n)}e^{(m\log(e) + m\log(x))} + 22*B*d^3m^n^2x^x^{(2n)}e^{(m\log(e) + m\log(x))} + 36*B*c^2*d*n^3x^x^{(2n)}e^{(m\log(e) + m\log(x))} + 36*A*c*d^2n^3x^x^{(2n)}e^{(m\log(e) + m\log(x))} + 24*B*c*d^2n^3x^x^{(2n)}e^{(m\log(e) + m\log(x))} + 8*A*d^3n^3x^x^{(2n)}e^{(m\log(e) + m\log(x))} + 6*B*d^3n^3x^x^{(2n)}e^{(m\log(e) + m\log(x))} + 4*B*c^3m^3x^x^n e^{(m\log(e) + m\log(x))} + 12*A*c^2*d*m^3x^x^n e^{(m\log(e) + m\log(x))} + 12*B*c^2*d*m^3x^x^n e^{(m\log(e) + m\log(x))} + 12*A*c*d^2m^3x^x^n e^{(m\log(e) + m\log(x))} + 12*B*c*d^2m^3x^x^n e^{(m\log(e) + m\log(x))} + 4*A*d^3m^3x^x^n e^{(m\log(e) + m\log(x))} + 4*B*d^3m^3x^x^n e^{(m\log(e) + m\log(x))} + 27*B*c^3m^2n^2x^x^n e^{(m\log(e) + m\log(x))} + 81*A*c^2*d*m^2n^2x^x^n e^{(m\log(e) + m\log(x))} + 72*B*c^2*d*m^2n^2x^x^n e^{(m\log(e) + m\log(x))} + 72*A*c*d^2m^2n^2x^x^n e^{(m\log(e) + m\log(x))} + 63*B*c*d^2m^2n^2x^x^n e^{(m\log(e) + m\log(x))} + 21*A*d^3m^2n^2x^x^n e^{(m\log(e) + m\log(x))} + 18*B*d^3m^2n^2x^x^n e^{(m\log(e) + m\log(x))} + 52*B*c^3m^n^2x^x^n e^{(m\log(e) + m\log(x))} + 156*A*c^2*d*m^n^2x^x^n e^{(m\log(e) + m\log(x))} + 114*B*c^2*d*m^n^2x^x^n e^{(m\log(e) + m\log(x))} + 114*A*c*d^2m^n^2x^x^n e^{(m\log(e) + m\log(x))} + 84*B*c*d^2m^n^2x^x^n e^{(m\log(e) + m\log(x))} + 28*A*d^3m^n^2x^x^n e^{(m\log(e) + m\log(x))} + 22*B*d^3m^n^2x^x^n e^{(m\log(e) + m\log(x))} + 24*B*c^3n^3x^x^n e^{(m\log(e) + m\log(x))} + 72*A*c^2*d*n^3x^x^n e^{(m\log(e) + m\log(x))} +
\end{aligned}$$

$*d*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 72*A*c*d^2*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 63*B*c*d^2*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 21*A*d^3*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 18*B*d^3*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 26*B*c^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 78*A*c^2*d*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 57*B*c^2*d*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 57*A*c*d^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 42*B*c*d^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 14*A*d^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 11*B*d^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 6*A*c^3*m^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 6*B*c^3*m^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 18*A*c^2*d*m^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 18*B*c^2*d*m^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 18*A*c*d^2*m^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 18*B*c*d^2*m^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 6*A*d^3*m^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 6*B*d^3*m^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 30*A*c^3*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 27*B*c^3*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 81*A*c^2*d*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 72*B*c^2*d*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 72*A*c*d^2*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 63*B*c*d^2*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 21*A*d^3*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 18*B*d^3*m*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 35*A*c^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 26*B*c^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 78*A*c^2*d*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 57*B*c^2*d*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 42*B*c*d^2*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 14*A*d^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 11*B*d^3*n^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 4*B*d^3*m*x*x^(4*n)*e^{(m*\log(e) + m*\log(x))} + 6*B*d^3*n*x*x^(4*n)*e^{(m*\log(e) + m*\log(x))} + 12*B*c*d^2*m*x*x^(3*n)*e^{(m*\log(e) + m*\log(x))} + 4*A*d^3*m*x*x^(3*n)*e^{(m*\log(e) + m*\log(x))} + 4*B*d^3*m*x*x^(3*n)*e^{(m*\log(e) + m*\log(x))} + 21*B*c*d^2*n*x*x^(3*n)*e^{(m*\log(e) + m*\log(x))} + 7*A*d^3*n*x*x^(3*n)*e^{(m*\log(e) + m*\log(x))} + 6*B*d^3*n*x*x^(3*n)*e^{(m*\log(e) + m*\log(x))} + 12*B*c^2*d*m*x*x^(2*n)*e^{(m*\log(e) + m*\log(x))} + 12*A*c*d^2*m*x*x^(2*n)*e^{(m*\log(e) + m*\log(x))} + 12*B*c*d^2*m*x*x^(2*n)*e^{(m*\log(e) + m*\log(x))} + 4*A*d^3*m*x*x^(2*n)*e^{(m*\log(e) + m*\log(x))} + 4*B*d^3*m*x*x^(2*n)*e^{(m*\log(e) + m*\log(x))} + 24*B*c^2*d*n*x*x^(2*n)*e^{(m*\log(e) + m*\log(x))} + 24*A*c*d^2*n*x*x^(2*n)*e^{(m*\log(e) + m*\log(x))} + 21*B*c*d^2*n*x*x^(2*n)*e^{(m*\log(e) + m*\log(x))} + 7*A*d^3*n*x*x^(2*n)*e^{(m*\log(e) + m*\log(x))} + 6*B*d^3*n*x*x^(2*n)*e^{(m*\log(e) + m*\log(x))} + 4*B*c^3*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 12*A*c^2*d*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 12*B*c^2*d*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 12*A*c*d^2*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 12*B*c*d^2*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 4*A*d^3*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 4*B*d^3*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 9*B*c^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 27*A*c^2*d*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 24*B*c^2*d*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 24*A*c*d^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 21*B*c*d^2*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 7*A*d^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 6*B*d^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 4*A*c^3*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 4*B*c^3*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 12*A*c^2*d*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 12*B*c^2*d*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 12*A*c*d^2*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 12*B*c*d^2*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 4*A*d^3*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 4*B*d^3*m*x*x^n*e^{(m*\log(e) + m*\log(x))} + 10*A*c^3*n*x*x^n*e^{(m*\log(e) + m*\log(x))} + 9*B*c^$

$$\begin{aligned}
& 3*n*x*e^{(m*\log(e) + m*\log(x))} + 27*A*c^2*d*n*x*e^{(m*\log(e) + m*\log(x))} + 24 \\
& *B*c^2*d*n*x*e^{(m*\log(e) + m*\log(x))} + 24*A*c*d^2*n*x*e^{(m*\log(e) + m*\log(x))} \\
& + 21*B*c*d^2*n*x*e^{(m*\log(e) + m*\log(x))} + 7*A*d^3*n*x*e^{(m*\log(e) + m*\log(x))} \\
& + 6*B*d^3*n*x*e^{(m*\log(e) + m*\log(x))} + B*d^3*x*x^{(4*n)}*e^{(m*\log(e) + m*\log(x))} \\
& + 3*B*c*d^2*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + A*d^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} \\
& + B*d^3*x*x^{(3*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*c^2*d*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} \\
& + 3*A*c*d^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + 3*B*c*d^2*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} \\
& + A*d^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} + B*d^3*x*x^{(2*n)}*e^{(m*\log(e) + m*\log(x))} \\
& + B*c^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3*A*c^2*d*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3*B*c^2*d*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + 3*A*c*d^2*x*x^n*e^{(m*\log(e) + m*\log(x))} + 3*B*c*d^2*x*x^n*e^{(m*\log(e) + m*\log(x))} \\
& + A*d^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + B*d^3*x*x^n*e^{(m*\log(e) + m*\log(x))} + A*c^3*x*e^{(m*\log(e) + m*\log(x))} \\
& + B*c^3*x*e^{(m*\log(e) + m*\log(x))} + 3*A*c^2*d*x*e^{(m*\log(e) + m*\log(x))} + 3*B*c^2*d*x*e^{(m*\log(e) + m*\log(x))} \\
& + 3*A*c*d^2*x*e^{(m*\log(e) + m*\log(x))} + 3*B*c*d^2*x*e^{(m*\log(e) + m*\log(x))} + A*d^3*x*e^{(m*\log(e) + m*\log(x))} \\
& + B*d^3*x*e^{(m*\log(e) + m*\log(x))})/(m^5 + 10*m^4*n + 35*m^3*n^2 + 50*m^2*n^3 + 24*m*n^4 + 5*m^4 + 40*m^3*n + 105*m^2*n^2 + 100*m*n^3 + 24*n^4 + 10*m^3 + 60*m^2*n + 105*m*n^2 + 50*n^3 + 10*m^2 + 40*m*n + 35*n^2 + 5*m + 10*n + 1)
\end{aligned}$$

Mupad [B] (verification not implemented)

Time = 9.29 (sec) , antiderivative size = 563, normalized size of antiderivative = 4.11

$$\begin{aligned}
\int (ex)^m (A + Bx^n) (c + dx^n)^3 dx &= \frac{Ac^3 x (ex)^m}{m + 1} \\
&+ \frac{d^2 x x^{3n} (ex)^m (Ad + 3Bc) (m^3 + 7m^2 n + 3m^2 + 14m n^2 + 14m n + 3m + 8n^3 + 14n^2 + m^4 + 10m^3 n + 4m^3 + 35m^2 n^2 + 30m^2 n + 6m^2 + 50m n^3 + 70m n^2 + 30m n + 4m + 24n^4 + 50n^3}{m^4 + 10m^3 n + 4m^3 + 35m^2 n^2 + 30m^2 n + 6m^2 + 50m n^3 + 70m n^2 + 30m n + 4m + 24n^4 + 50n^3} \\
&+ \frac{c^2 x x^n (ex)^m (3Ad + Bc) (m^3 + 9m^2 n + 3m^2 + 26m n^2 + 18m n + 3m + 24n^3 + 26n^2 + m^4 + 10m^3 n + 4m^3 + 35m^2 n^2 + 30m^2 n + 6m^2 + 50m n^3 + 70m n^2 + 30m n + 4m + 24n^4 + 50n^3}{m^4 + 10m^3 n + 4m^3 + 35m^2 n^2 + 30m^2 n + 6m^2 + 50m n^3 + 70m n^2 + 30m n + 4m + 24n^4 + 50n^3} \\
&+ \frac{Bd^3 x x^{4n} (ex)^m (m^3 + 6m^2 n + 3m^2 + 11m n^2 + 12m n + 3m + 6n^3 + 11n^2 + 6n + m^4 + 10m^3 n + 4m^3 + 35m^2 n^2 + 30m^2 n + 6m^2 + 50m n^3 + 70m n^2 + 30m n + 4m + 24n^4 + 50n^3}{m^4 + 10m^3 n + 4m^3 + 35m^2 n^2 + 30m^2 n + 6m^2 + 50m n^3 + 70m n^2 + 30m n + 4m + 24n^4 + 50n^3} \\
&+ \frac{3cdx x^{2n} (ex)^m (Ad + Bc) (m^3 + 8m^2 n + 3m^2 + 19m n^2 + 16m n + 3m + 12n^3 + 19n^2 + m^4 + 10m^3 n + 4m^3 + 35m^2 n^2 + 30m^2 n + 6m^2 + 50m n^3 + 70m n^2 + 30m n + 4m + 24n^4 + 50n^3)}{m^4 + 10m^3 n + 4m^3 + 35m^2 n^2 + 30m^2 n + 6m^2 + 50m n^3 + 70m n^2 + 30m n + 4m + 24n^4 + 50n^3}
\end{aligned}$$

[In] int((e*x)^m*(A + B*x^n)*(c + d*x^n)^3,x)

[Out] (A*c^3*x*(e*x)^m)/(m + 1) + (d^2*x*x^(3*n))*(e*x)^m*(A*d + 3*B*c)*(3*m + 7*n + 14*m*n + 14*m*n^2 + 7*m^2*n + 3*m^2 + m^3 + 14*n^2 + 8*n^3 + 1))/(4*m + 10*n + 30*m*n + 70*m*n^2 + 30*m^2*n + 50*m*n^3 + 10*m^3*n + 6*m^2 + 4*m^3 + m^4 + 35*n^2 + 50*n^3 + 24*n^4 + 35*m^2*n^2 + 1) + (c^2*x*x^n*(e*x)^m*(3*A*d + B*c)*(3*m + 9*n + 18*m*n + 26*m*n^2 + 9*m^2*n + 3*m^2 + m^3 + 26*n^2 + 24*n^3 + 1))/(4*m + 10*n + 30*m*n + 70*m*n^2 + 30*m^2*n + 50*m*n^3 + 10*m^3*n + 6*m^2 + 4*m^3 + m^4 + 35*n^2 + 50*n^3 + 24*n^4 + 35*m^2*n^2 + 1) + (B

$$\begin{aligned}
& *d^3*x*x^{(4*n)}*(e*x)^m*(3*m + 6*n + 12*m*n + 11*m*n^2 + 6*m^2*n + 3*m^2 + m \\
& ^3 + 11*n^2 + 6*n^3 + 1))/(4*m + 10*n + 30*m*n + 70*m*n^2 + 30*m^2*n + 50*m \\
& *n^3 + 10*m^3*n + 6*m^2 + 4*m^3 + m^4 + 35*n^2 + 50*n^3 + 24*n^4 + 35*m^2*n \\
& ^2 + 1) + (3*c*d*x*x^{(2*n)}*(e*x)^m*(A*d + B*c)*(3*m + 8*n + 16*m*n + 19*m*n \\
& ^2 + 8*m^2*n + 3*m^2 + m^3 + 19*n^2 + 12*n^3 + 1))/(4*m + 10*n + 30*m*n + 7 \\
& 0*m*n^2 + 30*m^2*n + 50*m*n^3 + 10*m^3*n + 6*m^2 + 4*m^3 + m^4 + 35*n^2 + 5 \\
& 0*n^3 + 24*n^4 + 35*m^2*n^2 + 1)
\end{aligned}$$

$$3.19 \quad \int \frac{(ex)^m (A+Bx^n)(c+dx^n)^3}{a+bx^n} dx$$

Optimal result	978
Rubi [A] (verified)	979
Mathematica [A] (verified)	981
Maple [F]	981
Fricas [F]	981
Sympy [C] (verification not implemented)	982
Maxima [F]	983
Giac [F]	984
Mupad [F(-1)]	984

Optimal result

Integrand size = 31, antiderivative size = 270

$$\begin{aligned} & \int \frac{(ex)^m (A+Bx^n)(c+dx^n)^3}{a+bx^n} dx \\ &= \frac{d(a^2Bd^2 + 3b^2c(Bc+Ad) - abd(3Bc+Ad))x^{1+n}(ex)^m}{b^3(1+m+n)} \\ & \quad + \frac{d^2(3bBc + Abd - aBd)x^{1+2n}(ex)^m}{b^2(1+m+2n)} + \frac{Bd^3x^{1+3n}(ex)^m}{b(1+m+3n)} \\ & \quad - \frac{(a^3Bd^3 + 3ab^2cd(Bc+Ad) - a^2bd^2(3Bc+Ad) - b^3c^2(Bc+3Ad))(ex)^{1+m}}{b^4e(1+m)} \\ & \quad + \frac{(Ab - aB)(bc - ad)^3(ex)^{1+m} \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{bx^n}{a}\right)}{ab^4e(1+m)} \end{aligned}$$

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[Out] d*(a^2*B*d^2+3*b^2*c*(A*d+B*c)-a*b*d*(A*d+3*B*c))*x^(1+n)*(e*x)^m/b^3/(1+m+n)+d^2*(A*b*d-B*a*d+3*B*b*c)*x^(1+2*n)*(e*x)^m/b^2/(1+m+2*n)+B*d^3*x^(1+3*n)*(e*x)^m/b/(1+m+3*n)-(a^3*B*d^3+3*a*b^2*c*d*(A*d+B*c)-a^2*b*d^2*(A*d+3*B*c)-b^3*c^2*(3*A*d+B*c))*(e*x)^(1+m)/b^4/e/(1+m)+(A*b-B*a)*(-a*d+b*c)^3*(e*x)^(1+m)*hypergeom([1, (1+m)/n], [(1+m+n)/n], -b*x^n/a)/a/b^4/e/(1+m)
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Rubi [A] (verified)

Time = 0.25 (sec) , antiderivative size = 270, normalized size of antiderivative = 1.00, number of steps used = 9, number of rules used = 4, $\frac{\text{number of rules}}{\text{integrand size}} = 0.129$, Rules used = {584, 20, 30, 371}

$$\int \frac{(ex)^m (A + Bx^n) (c + dx^n)^3}{a + bx^n} dx$$

$$= \frac{dx^{n+1}(ex)^m (a^2 B d^2 - abd(Ad + 3Bc) + 3b^2 c(Ad + Bc))}{b^3(m + n + 1)}$$

$$- \frac{(ex)^{m+1} (a^3 B d^3 - a^2 b d^2(Ad + 3Bc) + 3ab^2 cd(Ad + Bc) + b^3(-c^2)(3Ad + Bc))}{b^4 e(m + 1)}$$

$$+ \frac{(ex)^{m+1} (Ab - aB)(bc - ad)^3 \text{Hypergeometric2F1}\left(1, \frac{m+1}{n}, \frac{m+n+1}{n}, -\frac{bx^n}{a}\right)}{ab^4 e(m + 1)}$$

$$+ \frac{d^2 x^{2n+1} (ex)^m (-aBd + Abd + 3bBc)}{b^2(m + 2n + 1)} + \frac{Bd^3 x^{3n+1} (ex)^m}{b(m + 3n + 1)}$$

[In] Int[((e*x)^m*(A + B*x^n)*(c + d*x^n)^3)/(a + b*x^n), x]

[Out] (d*(a^2*B*d^2 + 3*b^2*c*(B*c + A*d) - a*b*d*(3*B*c + A*d))*x^(1 + n)*(e*x)^m)/(b^3*(1 + m + n)) + (d^2*(3*b*B*c + A*b*d - a*B*d)*x^(1 + 2*n)*(e*x)^m)/(b^2*(1 + m + 2*n)) + (B*d^3*x^(1 + 3*n)*(e*x)^m)/(b*(1 + m + 3*n)) - ((a^3*B*d^3 + 3*a*b^2*c*d*(B*c + A*d) - a^2*b*d^2*(3*B*c + A*d) - b^3*c^2*(B*c + 3*A*d))*(e*x)^(1 + m))/(b^4*e*(1 + m)) + ((A*b - a*B)*(b*c - a*d)^3*(e*x)^(1 + m)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -(b*x^n)/a])/(a*b^4*e*(1 + m))

Rule 20

Int[(u_)*((a_)*(v_))^(m_)*((b_)*(v_))^(n_), x_Symbol] := Dist[b^IntPart[n]*((b*v)^FracPart[n]/(a^IntPart[n]*(a*v)^FracPart[n])), Int[u*(a*v)^(m + n), x], x] /; FreeQ[{a, b, m, n}, x] && !IntegerQ[m] && !IntegerQ[n] && !IntegerQ[m + n]

Rule 30

Int[(x_)^(m_), x_Symbol] := Simp[x^(m + 1)/(m + 1), x] /; FreeQ[m, x] && NeQ[m, -1]

Rule 371

Int[((c_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Simp[a^p*((c*x)^(m + 1)/(c*(m + 1)))*Hypergeometric2F1[-p, (m + 1)/n, (m + 1)/n + 1, (-b)*(x^n/a)], x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILtQ[p, 0] || GtQ[a, 0])

Rule 584

Int[((g_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_.)*((c_) + (d_.)*(x_)^(n_))^(q_.)*((e_) + (f_.)*(x_)^(n_))^(r_.), x_Symbol] :> Int[ExpandIntegrand[(g*x)^m*(a + b*x^n)^p*(c + d*x^n)^q*(e + f*x^n)^r, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n}, x] && IGtQ[p, -2] && IGtQ[q, 0] && IGtQ[r, 0]

Rubi steps

$$\begin{aligned}
\text{integral} &= \int \left(\frac{(-a^3 B d^3 - 3 a b^2 c d (B c + A d) + a^2 b d^2 (3 B c + A d) + b^3 c^2 (B c + 3 A d)) (e x)^m}{b^4} \right. \\
&\quad + \frac{d(a^2 B d^2 + 3 b^2 c (B c + A d) - a b d (3 B c + A d)) x^n (e x)^m}{b^3} \\
&\quad + \frac{d^2(3 b B c + A b d - a B d) x^{2 n} (e x)^m}{b^2} + \frac{B d^3 x^{3 n} (e x)^m}{b} \\
&\quad \left. + \frac{(A b - a B)(b c - a d)^3 (e x)^m}{b^4 (a + b x^n)} \right) dx \\
&= - \frac{(a^3 B d^3 + 3 a b^2 c d (B c + A d) - a^2 b d^2 (3 B c + A d) - b^3 c^2 (B c + 3 A d)) (e x)^{1+m}}{b^4 e (1+m)} \\
&\quad + \frac{(B d^3) \int x^{3 n} (e x)^m dx}{b} + \frac{((A b - a B)(b c - a d)^3) \int \frac{(e x)^m}{a + b x^n} dx}{b^4} \\
&\quad + \frac{(d^2(3 b B c + A b d - a B d)) \int x^{2 n} (e x)^m dx}{b^2} \\
&\quad + \frac{(d(a^2 B d^2 + 3 b^2 c (B c + A d) - a b d (3 B c + A d))) \int x^n (e x)^m dx}{b^3} \\
&= - \frac{(a^3 B d^3 + 3 a b^2 c d (B c + A d) - a^2 b d^2 (3 B c + A d) - b^3 c^2 (B c + 3 A d)) (e x)^{1+m}}{b^4 e (1+m)} \\
&\quad + \frac{(A b - a B)(b c - a d)^3 (e x)^{1+m} {}_2F_1\left(1, \frac{1+m}{n}; \frac{1+m+n}{n}; -\frac{b x^n}{a}\right)}{a b^4 e (1+m)} \\
&\quad + \frac{(B d^3 x^{-m} (e x)^m) \int x^{m+3 n} dx}{b} + \frac{(d^2(3 b B c + A b d - a B d) x^{-m} (e x)^m) \int x^{m+2 n} dx}{b^2} \\
&\quad + \frac{(d(a^2 B d^2 + 3 b^2 c (B c + A d) - a b d (3 B c + A d)) x^{-m} (e x)^m) \int x^{m+n} dx}{b^3} \\
&= \frac{d(a^2 B d^2 + 3 b^2 c (B c + A d) - a b d (3 B c + A d)) x^{1+n} (e x)^m}{b^3 (1+m+n)} \\
&\quad + \frac{d^2(3 b B c + A b d - a B d) x^{1+2 n} (e x)^m}{b^2 (1+m+2 n)} + \frac{B d^3 x^{1+3 n} (e x)^m}{b (1+m+3 n)} \\
&\quad - \frac{(a^3 B d^3 + 3 a b^2 c d (B c + A d) - a^2 b d^2 (3 B c + A d) - b^3 c^2 (B c + 3 A d)) (e x)^{1+m}}{b^4 e (1+m)} \\
&\quad + \frac{(A b - a B)(b c - a d)^3 (e x)^{1+m} {}_2F_1\left(1, \frac{1+m}{n}; \frac{1+m+n}{n}; -\frac{b x^n}{a}\right)}{a b^4 e (1+m)}
\end{aligned}$$

Mathematica [A] (verified)

Time = 0.81 (sec) , antiderivative size = 229, normalized size of antiderivative = 0.85

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)^3}{a + bx^n} dx$$

$$= \frac{x(ex)^m \left(\frac{-a^3 B d^3 - 3ab^2 cd(Bc + Ad) + a^2 b d^2 (3Bc + Ad) + b^3 c^2 (Bc + 3Ad)}{1+m} + \frac{bd(a^2 B d^2 + 3b^2 c(Bc + Ad) - abd(3Bc + Ad))x^n}{1+m+n} + \frac{b^2 d^2 (3bBc + Ad)}{1+m} \right)}{b^4}$$

[In] Integrate[((e*x)^m*(A + B*x^n)*(c + d*x^n)^3)/(a + b*x^n),x]

[Out] (x*(e*x)^m*((-(a^3*B*d^3) - 3*a*b^2*c*d*(B*c + A*d) + a^2*b*d^2*(3*B*c + A*d) + b^3*c^2*(B*c + 3*A*d))/(1 + m) + (b*d*(a^2*B*d^2 + 3*b^2*c*(B*c + A*d) - a*b*d*(3*B*c + A*d))*x^n)/(1 + m + n) + (b^2*d^2*(3*b*B*c + A*b*d - a*B*d)*x^(2*n))/(1 + m + 2*n) + (b^3*B*d^3*x^(3*n))/(1 + m + 3*n) + ((-(A*b) + a*B)*(-(b*c) + a*d)^3*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -(b*x^n)/a]))/(a*(1 + m)))/b^4

Maple [F]

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)^3}{a + bx^n} dx$$

[In] int((e*x)^m*(A+B*x^n)*(c+d*x^n)^3/(a+b*x^n),x)

[Out] int((e*x)^m*(A+B*x^n)*(c+d*x^n)^3/(a+b*x^n),x)

Fricas [F]

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)^3}{a + bx^n} dx = \int \frac{(Bx^n + A)(dx^n + c)^3 (ex)^m}{bx^n + a} dx$$

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

[Out] integral((B*d^3*x^(4*n) + A*c^3 + (3*B*c*d^2 + A*d^3)*x^(3*n) + 3*(B*c^2*d + A*c*d^2)*x^(2*n) + (B*c^3 + 3*A*c^2*d)*x^n)*(e*x)^m/(b*x^n + a), x)

Sympy [C] (verification not implemented)

Result contains complex when optimal does not.

Time = 16.88 (sec) , antiderivative size = 1933, normalized size of antiderivative = 7.16

$$\int \frac{(ex)^m (A + Bx^n) (c + dx^n)^3}{a + bx^n} dx = \text{Too large to display}$$

[In] integrate((e*x)**m*(A+B*x**n)*(c+d*x**n)**3/(a+b*x**n),x)

[Out] A*a**(m/n + 1/n)*a**(-m/n - 1 - 1/n)*c**3*e**m*x**(m + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 1/n)*gamma(m/n + 1/n)/(n**2*gamma(m/n + 1 + 1/n)) + A*a**(m/n + 1/n)*a**(-m/n - 1 - 1/n)*c**3*e**m*x**(m + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 1/n)*gamma(m/n + 1/n)/(n**2*gamma(m/n + 1 + 1/n)) + A*a**(-m/n - 4 - 1/n)*a**(m/n + 3 + 1/n)*d**3*e**m*x**(m + 3*n + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 3 + 1/n)*gamma(m/n + 3 + 1/n)/(n**2*gamma(m/n + 4 + 1/n)) + 3*A*a**(-m/n - 4 - 1/n)*a**(m/n + 3 + 1/n)*d**3*e**m*x**(m + 3*n + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 3 + 1/n)*gamma(m/n + 3 + 1/n)/(n*gamma(m/n + 4 + 1/n)) + A*a**(-m/n - 4 - 1/n)*a**(m/n + 3 + 1/n)*d**3*e**m*x**(m + 3*n + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 3 + 1/n)*gamma(m/n + 3 + 1/n)/(n**2*gamma(m/n + 4 + 1/n)) + 3*A*a**(-m/n - 3 - 1/n)*a**(m/n + 2 + 1/n)*c*d**2*e**m*x**(m + 2*n + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 2 + 1/n)*gamma(m/n + 2 + 1/n)/(n**2*gamma(m/n + 3 + 1/n)) + 6*A*a**(-m/n - 3 - 1/n)*a**(m/n + 2 + 1/n)*c*d**2*e**m*x**(m + 2*n + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 2 + 1/n)*gamma(m/n + 2 + 1/n)/(n*gamma(m/n + 3 + 1/n)) + 3*A*a**(-m/n - 3 - 1/n)*a**(m/n + 2 + 1/n)*c*d**2*e**m*x**(m + 2*n + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 2 + 1/n)*gamma(m/n + 2 + 1/n)/(n**2*gamma(m/n + 3 + 1/n)) + 3*A*a**(-m/n - 2 - 1/n)*a**(m/n + 1 + 1/n)*c**2*d*e**m*x**(m + n + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 1 + 1/n)*gamma(m/n + 1 + 1/n)/(n**2*gamma(m/n + 2 + 1/n)) + 3*A*a**(-m/n - 2 - 1/n)*a**(m/n + 1 + 1/n)*c**2*d*e**m*x**(m + n + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 1 + 1/n)*gamma(m/n + 1 + 1/n)/(n*gamma(m/n + 2 + 1/n)) + 3*A*a**(-m/n - 2 - 1/n)*a**(m/n + 1 + 1/n)*c**2*d*e**m*x**(m + n + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 1 + 1/n)*gamma(m/n + 1 + 1/n)/(n**2*gamma(m/n + 2 + 1/n)) + B*a**(-m/n - 5 - 1/n)*a**(m/n + 4 + 1/n)*d**3*e**m*x**(m + 4*n + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 4 + 1/n)*gamma(m/n + 4 + 1/n)/(n**2*gamma(m/n + 5 + 1/n)) + 4*B*a**(-m/n - 5 - 1/n)*a**(m/n + 4 + 1/n)*d**3*e**m*x**(m + 4*n + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 4 + 1/n)*gamma(m/n + 4 + 1/n)/(n*gamma(m/n + 5 + 1/n)) + B*a**(-m/n - 5 - 1/n)*a**(m/n + 4 + 1/n)*d**3*e**m*x**(m + 4*n + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 4 + 1/n)*gamma(m/n + 4 + 1/n)/(n**2*gamma(m/n + 5 + 1/n)) + 3*B*a**(-m/n - 4 - 1/n)*a**(m/n + 3 + 1/n)*c*d**2*e**m*x**(m + 3*n + 1)*lerchphi(b*x**n*exp_polar(I*pi)/a, 1, m/n + 3 + 1/n)*gamma(m/n + 3 + 1/n)/(n**2*gamma(m/n + 4 + 1/n)) + 9*B*a**(-m/n - 4 - 1/n)*a**(m/n + 3 + 1/n)*c*d**2*e**m*

$x^{m+3n+1} \operatorname{lerchphi}(b x^{n+1} \exp_{\text{polar}}(I \pi) / a, 1, m/n + 3 + 1/n) \gamma(m/n + 3 + 1/n) / (n \gamma(m/n + 4 + 1/n)) + 3 B a^{-(m/n - 4 - 1/n)} a^{(m/n + 3 + 1/n)} c^{2d} e^{m x^{n+1}} \operatorname{lerchphi}(b x^{n+1} \exp_{\text{polar}}(I \pi) / a, 1, m/n + 3 + 1/n) \gamma(m/n + 3 + 1/n) / (n^2 \gamma(m/n + 4 + 1/n)) + 3 B a^{-(m/n - 3 - 1/n)} a^{(m/n + 2 + 1/n)} c^{2d} e^{m x^{n+1}} \operatorname{lerchphi}(b x^{n+1} \exp_{\text{polar}}(I \pi) / a, 1, m/n + 2 + 1/n) \gamma(m/n + 2 + 1/n) / (n^2 \gamma(m/n + 3 + 1/n)) + 6 B a^{-(m/n - 3 - 1/n)} a^{(m/n + 2 + 1/n)} c^{2d} e^{m x^{n+1}} \operatorname{lerchphi}(b x^{n+1} \exp_{\text{polar}}(I \pi) / a, 1, m/n + 2 + 1/n) \gamma(m/n + 2 + 1/n) / (n \gamma(m/n + 3 + 1/n)) + 3 B a^{-(m/n - 3 - 1/n)} a^{(m/n + 2 + 1/n)} c^{2d} e^{m x^{n+1}} \operatorname{lerchphi}(b x^{n+1} \exp_{\text{polar}}(I \pi) / a, 1, m/n + 2 + 1/n) \gamma(m/n + 2 + 1/n) / (n^2 \gamma(m/n + 3 + 1/n)) + B a^{-(m/n - 2 - 1/n)} a^{(m/n + 1 + 1/n)} c^{3d} e^{m x^{n+1}} \operatorname{lerchphi}(b x^{n+1} \exp_{\text{polar}}(I \pi) / a, 1, m/n + 1 + 1/n) \gamma(m/n + 1 + 1/n) / (n^2 \gamma(m/n + 2 + 1/n)) + B a^{-(m/n - 2 - 1/n)} a^{(m/n + 1 + 1/n)} c^{3d} e^{m x^{n+1}} \operatorname{lerchphi}(b x^{n+1} \exp_{\text{polar}}(I \pi) / a, 1, m/n + 1 + 1/n) \gamma(m/n + 1 + 1/n) / (n \gamma(m/n + 2 + 1/n)) + B a^{-(m/n - 2 - 1/n)} a^{(m/n + 1 + 1/n)} c^{3d} e^{m x^{n+1}} \operatorname{lerchphi}(b x^{n+1} \exp_{\text{polar}}(I \pi) / a, 1, m/n + 1 + 1/n) \gamma(m/n + 1 + 1/n) / (n^2 \gamma(m/n + 2 + 1/n))$

Maxima [F]

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)^3}{a + bx^n} dx = \int \frac{(Bx^n + A)(dx^n + c)^3 (ex)^m}{bx^n + a} dx$$

[In] integrate((e*x)^m*(A+B*x^n)*(c+d*x^n)^3/(a+b*x^n),x, algorithm="maxima")

[Out] ((b^4*c^3*e^m - 3*a*b^3*c^2*d*e^m + 3*a^2*b^2*c*d^2*e^m - a^3*b*d^3*e^m)*A - (a*b^3*c^3*e^m - 3*a^2*b^2*c^2*d*e^m + 3*a^3*b*c*d^2*e^m - a^4*d^3*e^m)*B)*integrate(x^m/(b^5*x^n + a*b^4), x) + ((m^3 + 3*m^2*(n + 1) + (2*n^2 + 6*n + 3)*m + 2*n^2 + 3*n + 1)*B*b^3*d^3*e^m*x^e^(m*log(x) + 3*n*log(x)) + ((3*(m^3 + 3*m^2*(2*n + 1) + 6*n^3 + (11*n^2 + 12*n + 3)*m + 11*n^2 + 6*n + 1)*b^3*c^2*d*e^m - 3*(m^3 + 3*m^2*(2*n + 1) + 6*n^3 + (11*n^2 + 12*n + 3)*m + 11*n^2 + 6*n + 1)*a*b^2*c*d^2*e^m + (m^3 + 3*m^2*(2*n + 1) + 6*n^3 + (11*n^2 + 12*n + 3)*m + 11*n^2 + 6*n + 1)*a^2*b*d^3*e^m)*A + ((m^3 + 3*m^2*(2*n + 1) + 6*n^3 + (11*n^2 + 12*n + 3)*m + 11*n^2 + 6*n + 1)*b^3*c^3*e^m - 3*(m^3 + 3*m^2*(2*n + 1) + 6*n^3 + (11*n^2 + 12*n + 3)*m + 11*n^2 + 6*n + 1)*a*b^2*c^2*d*e^m + 3*(m^3 + 3*m^2*(2*n + 1) + 6*n^3 + (11*n^2 + 12*n + 3)*m + 11*n^2 + 6*n + 1)*a^2*b*c*d^2*e^m - (m^3 + 3*m^2*(2*n + 1) + 6*n^3 + (11*n^2 + 12*n + 3)*m + 11*n^2 + 6*n + 1)*a^3*d^3*e^m)*B)*x*x^m + ((m^3 + m^2*(4*n + 3) + (3*n^2 + 8*n + 3)*m + 3*n^2 + 4*n + 1)*A*b^3*d^3*e^m + (3*(m^3 + m^2*(4*n + 3) + (3*n^2 + 8*n + 3)*m + 3*n^2 + 4*n + 1)*b^3*c*d^2*e^m - (m^3 + m^2*(4*n + 3) + (3*n^2 + 8*n + 3)*m + 3*n^2 + 4*n + 1)*a*b^2*d^3*e^m)*B)*x*e^(m*log(x) + 2*n*log(x)) + ((3*(m^3 + m^2*(5*n + 3) + (6*n^2 + 10*n + 3)*m + 6*n^2 + 5*n + 1)*b^3*c*d^2*e^m - (m^3 + m^2*(5*n + 3) + (6*n^2 + 10*n

$$\begin{aligned}
 &+ 3)m + 6n^2 + 5n + 1) * a * b^2 * d^3 * e^m) * A + (3 * (m^3 + m^2 * (5n + 3) + (6n \\
 &^2 + 10n + 3) * m + 6n^2 + 5n + 1) * b^3 * c^2 * d * e^m - 3 * (m^3 + m^2 * (5n + 3) \\
 &+ (6n^2 + 10n + 3) * m + 6n^2 + 5n + 1) * a * b^2 * c * d^2 * e^m + (m^3 + m^2 * (5n \\
 &+ 3) + (6n^2 + 10n + 3) * m + 6n^2 + 5n + 1) * a^2 * b * d^3 * e^m) * B) * x * e^{(m * \log(x) + n * \log(x))} / ((m^4 + 2 * m^3 * (3n + 2) + (11 * n^2 + 18 * n + 6) * m^2 + 6 * n^3 \\
 &+ 2 * (3 * n^3 + 11 * n^2 + 9 * n + 2) * m + 11 * n^2 + 6 * n + 1) * b^4)
 \end{aligned}$$

Giac [F]

$$\int \frac{(ex)^m (A + Bx^n) (c + dx^n)^3}{a + bx^n} dx = \int \frac{(Bx^n + A)(dx^n + c)^3 (ex)^m}{bx^n + a} dx$$

[In] integrate((e*x)^m*(A+B*x^n)*(c+d*x^n)^3/(a+b*x^n),x, algorithm="giac")

[Out] integrate((B*x^n + A)*(d*x^n + c)^3*(e*x)^m/(b*x^n + a), x)

Mupad [F(-1)]

Timed out.

$$\int \frac{(ex)^m (A + Bx^n) (c + dx^n)^3}{a + bx^n} dx = \int \frac{(ex)^m (A + Bx^n) (c + dx^n)^3}{a + bx^n} dx$$

[In] int(((e*x)^m*(A + B*x^n)*(c + d*x^n)^3)/(a + b*x^n),x)

[Out] int(((e*x)^m*(A + B*x^n)*(c + d*x^n)^3)/(a + b*x^n), x)

$$3.20 \quad \int \frac{(ex)^m (A+Bx^n)(c+dx^n)^3}{(a+bx^n)^2} dx$$

Optimal result	985
Rubi [A] (verified)	986
Mathematica [A] (verified)	988
Maple [F]	989
Fricas [F]	989
Sympy [F(-1)]	989
Maxima [F]	989
Giac [F]	990
Mupad [F(-1)]	990

Optimal result

Integrand size = 31, antiderivative size = 394

$$\int \frac{(ex)^m (A+Bx^n)(c+dx^n)^3}{(a+bx^n)^2} dx =$$

$$\frac{d^2(Ab(3bc(1+m+n) - ad(1+m+2n)) - aB(3bc(1+m+2n) - ad(1+m+3n)))x^{1+n}(ex)^m}{ab^3n(1+m+n)}$$

$$- \frac{d^3(Ab(1+m+2n) - aB(1+m+3n))x^{1+2n}(ex)^m}{ab^2n(1+m+2n)}$$

$$- \frac{d(Ab(3b^2c^2(1+m) - 3abcd(1+m+n) + a^2d^2(1+m+2n)) - aB(3b^2c^2(1+m+n) - 3abcd(1+m+n)))}{ab^4e(1+m)n}$$

$$+ \frac{(Ab - aB)(ex)^{1+m}(c+dx^n)^3}{aben(a+bx^n)}$$

$$- \frac{(bc - ad)^2(Ab(bc(1+m-n) - ad(1+m+2n)) - aB(bc(1+m) - ad(1+m+3n)))(ex)^{1+m} \text{Hypergeom}}{a^2b^4e(1+m)n}$$

```
[Out] -d^2*(A*b*(3*b*c*(1+m+n)-a*d*(1+m+2*n))-a*B*(3*b*c*(1+m+2*n)-a*d*(1+m+3*n))
)*x^(1+n)*(e*x)^m/a/b^3/n/(1+m+n)-d^3*(A*b*(1+m+2*n)-a*B*(1+m+3*n))*x^(1+2*
n)*(e*x)^m/a/b^2/n/(1+m+2*n)-d*(A*b*(3*b^2*c^2*(1+m)-3*a*b*c*d*(1+m+n)+a^2*
d^2*(1+m+2*n))-a*B*(3*b^2*c^2*(1+m+n)-3*a*b*c*d*(1+m+2*n)+a^2*d^2*(1+m+3*n)
))*e*x^(1+m)/a/b^4/e/(1+m)/n+(A*b-B*a)*(e*x)^(1+m)*(c+d*x^n)^3/a/b/e/n/(a
+b*x^n)-(-a*d+b*c)^2*(A*b*(b*c*(1+m-n)-a*d*(1+m+2*n))-a*B*(b*c*(1+m)-a*d*(1
+m+3*n)))*(e*x)^(1+m)*hypergeom([1, (1+m)/n], [(1+m+n)/n], -b*x^n/a)/a^2/b^4/
e/(1+m)/n
```

Rubi [A] (verified)

Time = 0.60 (sec) , antiderivative size = 389, normalized size of antiderivative = 0.99, number of steps used = 8, number of rules used = 5, $\frac{\text{number of rules}}{\text{integrand size}} = 0.161$, Rules used = {608, 584, 20, 30, 371}

$$\int \frac{(ex)^m (A + Bx^n) (c + dx^n)^3}{(a + bx^n)^2} dx =$$

$$\frac{(ex)^{m+1} (bc - ad)^2 \text{Hypergeometric2F1}\left(1, \frac{m+1}{n}, \frac{m+n+1}{n}, -\frac{bx^n}{a}\right) (Ab(bc(m-n+1) - ad(m+2n+1)) - a^2 b^4 e(m+1)n)}{a^2 b^4 e(m+1)n}$$

$$\frac{d(ex)^{m+1} (Ab(a^2 d^2(m+2n+1) - 3abcd(m+n+1) + 3b^2 c^2(m+1)) - aB(a^2 d^2(m+3n+1) - 3abcd(m+n+1)))}{ab^4 e(m+1)n}$$

$$\frac{d^2 x^{n+1} (ex)^m (Ab(3bc(m+n+1) - ad(m+2n+1)) - aB(3bc(m+2n+1) - ad(m+3n+1)))}{ab^3 n(m+n+1)}$$

$$+ \frac{(ex)^{m+1} (Ab - aB) (c + dx^n)^3}{aben(a + bx^n)} - \frac{d^3 x^{2n+1} (ex)^m \left(A - \frac{aB(m+3n+1)}{b(m+2n+1)}\right)}{abn}$$

[In] Int[((e*x)^m*(A + B*x^n)*(c + d*x^n)^3)/(a + b*x^n)^2,x]

[Out] -((d^2*(A*b*(3*b*c*(1 + m + n) - a*d*(1 + m + 2*n)) - a*B*(3*b*c*(1 + m + 2*n) - a*d*(1 + m + 3*n)))*x^(1 + n)*(e*x)^m/(a*b^3*n*(1 + m + n))) - (d^3*(A - (a*B*(1 + m + 3*n))/(b*(1 + m + 2*n)))*x^(1 + 2*n)*(e*x)^m/(a*b*n) - (d*(A*b*(3*b^2*c^2*(1 + m) - 3*a*b*c*d*(1 + m + n) + a^2*d^2*(1 + m + 2*n)) - a*B*(3*b^2*c^2*(1 + m + n) - 3*a*b*c*d*(1 + m + 2*n) + a^2*d^2*(1 + m + 3*n)))*(e*x)^(1 + m))/(a*b^4*e*(1 + m)*n) + ((A*b - a*B)*(e*x)^(1 + m)*(c + d*x^n)^3)/(a*b*e*n*(a + b*x^n)) - ((b*c - a*d)^2*(A*b*(b*c*(1 + m - n) - a*d*(1 + m + 2*n)) - a*B*(b*c*(1 + m) - a*d*(1 + m + 3*n)))*(e*x)^(1 + m)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -(b*x^n)/a])/(a^2*b^4*e*(1 + m)*n)

Rule 20

Int[(u_.)*((a_.)*(v_))^(m_)*((b_.)*(v_))^(n_), x_Symbol] := Dist[b^IntPart[n]*(b*v)^FracPart[n]/(a^IntPart[n]*(a*v)^FracPart[n]), Int[u*(a*v)^(m+n), x], x] /; FreeQ[{a, b, m, n}, x] && !IntegerQ[m] && !IntegerQ[n] && !IntegerQ[m+n]

Rule 30

Int[(x_)^(m_.), x_Symbol] := Simp[x^(m+1)/(m+1), x] /; FreeQ[m, x] && NeQ[m, -1]

Rule 371

Int[((c_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_), x_Symbol] := Simp[a^p*((c*x)^(m+1)/(c*(m+1)))*Hypergeometric2F1[-p, (m+1)/n, (m+1)/n+1

, (-b)*(x^n/a)], x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILtQ[p, 0] || GtQ[a, 0])

Rule 584

Int[((g_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_.)*((c_) + (d_.)*(x_)^(n_))^(q_.)*((e_) + (f_.)*(x_)^(n_))^(r_.), x_Symbol] := Int[ExpandIntegrand[(g*x)^m*(a + b*x^n)^p*(c + d*x^n)^q*(e + f*x^n)^r, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n}, x] && IGtQ[p, -2] && IGtQ[q, 0] && IGtQ[r, 0]

Rule 608

Int[((g_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_.)*((c_) + (d_.)*(x_)^(n_))^(q_.)*((e_) + (f_.)*(x_)^(n_)), x_Symbol] := Simp[(-b*e - a*f)*(g*x)^(m + 1)*(a + b*x^n)^(p + 1)*((c + d*x^n)^q/(a*b*g*n*(p + 1))), x] + Dist[1/(a*b*n*(p + 1)), Int[(g*x)^m*(a + b*x^n)^(p + 1)*(c + d*x^n)^(q - 1)*Simp[c*(b*e*n*(p + 1) + (b*e - a*f)*(m + 1)) + d*(b*e*n*(p + 1) + (b*e - a*f)*(m + n*q + 1))*x^n, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n}, x] && LtQ[p, -1] && GtQ[q, 0] && !(EqQ[q, 1] && SimplerQ[b*c - a*d, b*e - a*f])

Rubi steps

$$\begin{aligned}
 \text{integral} &= \frac{(Ab - aB)(ex)^{1+m} (c + dx^n)^3}{aben (a + bx^n)} \\
 &\quad - \frac{\int \frac{(ex)^m (c + dx^n)^2 (-c(aB(1+m) - Ab(1+m-n)) + d(Ab(1+m+2n) - aB(1+m+3n))x^n)}{a + bx^n} dx}{abn} \\
 &= \frac{(Ab - aB)(ex)^{1+m} (c + dx^n)^3}{aben (a + bx^n)} \\
 &\quad - \frac{\int \left(\frac{d(Ab(3b^2c^2(1+m) - 3abcd(1+m+n) + a^2d^2(1+m+2n)) - aB(3b^2c^2(1+m+n) - 3abcd(1+m+2n) + a^2d^2(1+m+3n))}{b^3} \right) (ex)^m}{abn} dx \\
 &= \frac{d(Ab(3b^2c^2(1+m) - 3abcd(1+m+n) + a^2d^2(1+m+2n)) - aB(3b^2c^2(1+m+n) - 3abcd(1+m+2n) + a^2d^2(1+m+3n)))}{ab^4e(1+m)n} \\
 &\quad + \frac{(Ab - aB)(ex)^{1+m} (c + dx^n)^3}{aben (a + bx^n)} \\
 &\quad - \frac{(d^3(Ab(1+m+2n) - aB(1+m+3n))) \int x^{2n} (ex)^m dx}{ab^2n} \\
 &\quad - \frac{((bc - ad)^2(Ab(bc(1+m-n) - ad(1+m+2n)) - aB(bc(1+m) - ad(1+m+3n)))) \int \frac{(ex)^m}{a + bx^n} dx}{ab^4n} \\
 &\quad - \frac{(d^2(Ab(3bc(1+m+n) - ad(1+m+2n)) - aB(3bc(1+m+2n) - ad(1+m+3n)))) \int x^n (ex)^m dx}{ab^3n}
 \end{aligned}$$

$$\begin{aligned}
&= \frac{d(Ab(3b^2c^2(1+m) - 3abcd(1+m+n) + a^2d^2(1+m+2n)) - aB(3b^2c^2(1+m+n) - 3abcd(1+m+n))}{ab^4e(1+m)n} \\
&+ \frac{(Ab - aB)(ex)^{1+m} (c + dx^n)^3}{aben(a + bx^n)} \\
&- \frac{(bc - ad)^2(Ab(bc(1+m-n) - ad(1+m+2n)) - aB(bc(1+m) - ad(1+m+3n)))(ex)^{1+m}}{a^2b^4e(1+m)n} \\
&- \frac{(d^3(Ab(1+m+2n) - aB(1+m+3n))x^{-m}(ex)^m) \int x^{m+2n} dx}{ab^2n} \\
&- \frac{(d^2(Ab(3bc(1+m+n) - ad(1+m+2n)) - aB(3bc(1+m+2n) - ad(1+m+3n)))x^{-m}(ex)^m}{ab^3n} \\
&= \frac{d^2(Ab(3bc(1+m+n) - ad(1+m+2n)) - aB(3bc(1+m+2n) - ad(1+m+3n)))x^{1+n}(ex)^n}{ab^3n(1+m+n)} \\
&- \frac{d^3(Ab(1+m+2n) - aB(1+m+3n))x^{1+2n}(ex)^m}{ab^2n(1+m+2n)} \\
&- \frac{d(Ab(3b^2c^2(1+m) - 3abcd(1+m+n) + a^2d^2(1+m+2n)) - aB(3b^2c^2(1+m+n) - 3abcd(1+m+n))}{ab^4e(1+m)n} \\
&+ \frac{(Ab - aB)(ex)^{1+m} (c + dx^n)^3}{aben(a + bx^n)} \\
&- \frac{(bc - ad)^2(Ab(bc(1+m-n) - ad(1+m+2n)) - aB(bc(1+m) - ad(1+m+3n)))(ex)^{1+m}}{a^2b^4e(1+m)n}
\end{aligned}$$

Mathematica [A] (verified)

Time = 1.06 (sec) , antiderivative size = 217, normalized size of antiderivative = 0.55

$$\int \frac{(ex)^m (A + Bx^n) (c + dx^n)^3}{(a + bx^n)^2} dx$$

$$= \frac{x(ex)^m \left(\frac{d(3a^2Bd^2 + 3b^2c(Bc + Ad) - 2abd(3Bc + Ad))}{1+m} + \frac{bd^2(3bBc + Abd - 2aBd)x^n}{1+m+n} + \frac{b^2Bd^3x^{2n}}{1+m+2n} + \frac{(bc-ad)(bBc + 3Abd - 4aBd) \text{Hypergeometric2F1}[1, (1+m)/n, (1+m+n)/n, -(b*x^n)/a]}{a(1+m)} \right)}{b^4}$$

[In] Integrate[((e*x)^m*(A + B*x^n)*(c + d*x^n)^3)/(a + b*x^n)^2,x]

[Out] (x*(e*x)^m*((d*(3*a^2*B*d^2 + 3*b^2*c*(B*c + A*d) - 2*a*b*d*(3*B*c + A*d)))/(1+m) + (b*d^2*(3*b*B*c + A*b*d - 2*a*B*d)*x^n)/(1+m+n) + (b^2*B*d^3*x^(2*n))/(1+m+2*n) + ((b*c - a*d)^2*(b*B*c + 3*A*b*d - 4*a*B*d)*Hypergeometric2F1[1, (1+m)/n, (1+m+n)/n, -(b*x^n)/a])/(a*(1+m)) + ((-(A*b) + a*B)*(-(b*c) + a*d)^3*Hypergeometric2F1[2, (1+m)/n, (1+m+n)/n, -(b*x^n)/a])/(a^2*(1+m)))/b^4

Maple [F]

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)^3}{(a + bx^n)^2} dx$$

[In] int((e*x)^m*(A+B*x^n)*(c+d*x^n)^3/(a+b*x^n)^2,x)

[Out] int((e*x)^m*(A+B*x^n)*(c+d*x^n)^3/(a+b*x^n)^2,x)

Fricas [F]

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)^3}{(a + bx^n)^2} dx = \int \frac{(Bx^n + A)(dx^n + c)^3 (ex)^m}{(bx^n + a)^2} dx$$

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

[Out] integral((B*d^3*x^(4*n) + A*c^3 + (3*B*c*d^2 + A*d^3)*x^(3*n) + 3*(B*c^2*d + A*c*d^2)*x^(2*n) + (B*c^3 + 3*A*c^2*d)*x^n)*(e*x)^m/(b^2*x^(2*n) + 2*a*b*x^n + a^2), x)

Sympy [F(-1)]

Timed out.

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)^3}{(a + bx^n)^2} dx = \text{Timed out}$$

[In] integrate((e*x)**m*(A+B*x**n)*(c+d*x**n)**3/(a+b*x**n)**2,x)

[Out] Timed out

Maxima [F]

$$\int \frac{(ex)^m (A + Bx^n)(c + dx^n)^3}{(a + bx^n)^2} dx = \int \frac{(Bx^n + A)(dx^n + c)^3 (ex)^m}{(bx^n + a)^2} dx$$

[In] integrate((e*x)^m*(A+B*x^n)*(c+d*x^n)^3/(a+b*x^n)^2,x, algorithm="maxima")

[Out] ((a^3*b*d^3*e^m*(m + 2*n + 1) - 3*a^2*b^2*c*d^2*e^m*(m + n + 1) - b^4*c^3*e^m*(m - n + 1) + 3*a*b^3*c^2*d*e^m*(m + 1))*A - (a^4*d^3*e^m*(m + 3*n + 1) - 3*a^3*b*c*d^2*e^m*(m + 2*n + 1) + 3*a^2*b^2*c^2*d*e^m*(m + n + 1) - a*b^3*c^3*e^m*(m + 1))*B)*integrate(x^m/(a*b^5*n*x^n + a^2*b^4*n), x) + ((m^2*n + (n^2 + 2*n)*m + n^2 + n)*B*a*b^3*d^3*e^m*x*e^(m*log(x) + 3*n*log(x)) + ((m^3 + 3*m^2*(n + 1) + (2*n^2 + 6*n + 3)*m + 2*n^2 + 3*n + 1)*b^4*c^3*e^m -

$$\begin{aligned}
& 3*(m^3 + 3*m^2*(n + 1) + (2*n^2 + 6*n + 3)*m + 2*n^2 + 3*n + 1)*a*b^3*c^2* \\
& d*e^m + 3*(m^3 + m^2*(4*n + 3) + 2*n^3 + (5*n^2 + 8*n + 3)*m + 5*n^2 + 4*n \\
& + 1)*a^2*b^2*c*d^2*e^m - (m^3 + m^2*(5*n + 3) + 4*n^3 + (8*n^2 + 10*n + 3)* \\
& m + 8*n^2 + 5*n + 1)*a^3*b*d^3*e^m)*A - ((m^3 + 3*m^2*(n + 1) + (2*n^2 + 6* \\
& n + 3)*m + 2*n^2 + 3*n + 1)*a*b^3*c^3*e^m - 3*(m^3 + m^2*(4*n + 3) + 2*n^3 \\
& + (5*n^2 + 8*n + 3)*m + 5*n^2 + 4*n + 1)*a^2*b^2*c^2*d*e^m + 3*(m^3 + m^2*(\\
& 5*n + 3) + 4*n^3 + (8*n^2 + 10*n + 3)*m + 8*n^2 + 5*n + 1)*a^3*b*c*d^2*e^m \\
& - (m^3 + 3*m^2*(2*n + 1) + 6*n^3 + (11*n^2 + 12*n + 3)*m + 11*n^2 + 6*n + 1 \\
&)*a^4*d^3*e^m)*B)*x*x^m + ((m^2*n + 2*(n^2 + n)*m + 2*n^2 + n)*A*a*b^3*d^3* \\
& e^m + (3*(m^2*n + 2*(n^2 + n)*m + 2*n^2 + n)*a*b^3*c*d^2*e^m - (m^2*n + (3* \\
& n^2 + 2*n)*m + 3*n^2 + n)*a^2*b^2*d^3*e^m)*B)*x*e^(m*log(x) + 2*n*log(x)) + \\
& ((3*(m^2*n + 2*n^3 + (3*n^2 + 2*n)*m + 3*n^2 + n)*a*b^3*c*d^2*e^m - (m^2*n \\
& + 4*n^3 + 2*(2*n^2 + n)*m + 4*n^2 + n)*a^2*b^2*d^3*e^m)*A + (3*(m^2*n + 2* \\
& n^3 + (3*n^2 + 2*n)*m + 3*n^2 + n)*a*b^3*c^2*d*e^m - 3*(m^2*n + 4*n^3 + 2*(\\
& 2*n^2 + n)*m + 4*n^2 + n)*a^2*b^2*c*d^2*e^m + (m^2*n + 6*n^3 + (5*n^2 + 2*n) \\
&)*m + 5*n^2 + n)*a^3*b*d^3*e^m)*B)*x*e^(m*log(x) + n*log(x)))/((m^3*n + 3*(\\
& n^2 + n)*m^2 + 2*n^3 + (2*n^3 + 6*n^2 + 3*n)*m + 3*n^2 + n)*a*b^5*x^n + (m^ \\
& 3*n + 3*(n^2 + n)*m^2 + 2*n^3 + (2*n^3 + 6*n^2 + 3*n)*m + 3*n^2 + n)*a^2*b^ \\
& 4)
\end{aligned}$$

Giac [F]

$$\int \frac{(ex)^m (A + Bx^n) (c + dx^n)^3}{(a + bx^n)^2} dx = \int \frac{(Bx^n + A)(dx^n + c)^3 (ex)^m}{(bx^n + a)^2} dx$$

[In] integrate((e*x)^m*(A+B*x^n)*(c+d*x^n)^3/(a+b*x^n)^2,x, algorithm="giac")

[Out] integrate((B*x^n + A)*(d*x^n + c)^3*(e*x)^m/(b*x^n + a)^2, x)

Mupad [F(-1)]

Timed out.

$$\int \frac{(ex)^m (A + Bx^n) (c + dx^n)^3}{(a + bx^n)^2} dx = \int \frac{(ex)^m (A + Bx^n) (c + dx^n)^3}{(a + bx^n)^2} dx$$

[In] int(((e*x)^m*(A + B*x^n)*(c + d*x^n)^3)/(a + b*x^n)^2,x)

[Out] int(((e*x)^m*(A + B*x^n)*(c + d*x^n)^3)/(a + b*x^n)^2, x)

$$3.21 \quad \int \frac{(ex)^m (a+bx^n)^4 (A+Bx^n)}{c+dx^n} dx$$

Optimal result	991
Rubi [A] (verified)	992
Mathematica [A] (verified)	994
Maple [F]	995
Fricas [F]	995
Sympy [C] (verification not implemented)	995
Maxima [F]	997
Giac [F]	998
Mupad [F(-1)]	999

Optimal result

Integrand size = 31, antiderivative size = 380

$$\int \frac{(ex)^m (a+bx^n)^4 (A+Bx^n)}{c+dx^n} dx$$

$$= \frac{b(4a^3Bd^3 - b^3c^2(Bc - Ad) + 4ab^2cd(Bc - Ad) - 6a^2bd^2(Bc - Ad))x^{1+n}(ex)^m}{d^4(1+m+n)} + \frac{b^2(6a^2Bd^2 + b^2c(Bc - Ad) - 4abd(Bc - Ad))x^{1+2n}(ex)^m}{d^3(1+m+2n)} - \frac{b^3(bBc - Abd - 4aBd)x^{1+3n}(ex)^m}{d^2(1+m+3n)} + \frac{b^4Bx^{1+4n}(ex)^m}{d(1+m+4n)} + \frac{(a^4Bd^4 + b^4c^3(Bc - Ad) - 4ab^3c^2d(Bc - Ad) + 6a^2b^2cd^2(Bc - Ad) - 4a^3bd^3(Bc - Ad))(ex)^{1+m}}{d^5e(1+m)} - \frac{(bc - ad)^4(Bc - Ad)(ex)^{1+m} \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{dx^n}{c}\right)}{cd^5e(1+m)}$$

```
[Out] b*(4*a^3*B*d^3-b^3*c^2*(-A*d+B*c)+4*a*b^2*c*d*(-A*d+B*c)-6*a^2*b*d^2*(-A*d+B*c))*x^(1+n)*(e*x)^m/d^4/(1+m+n)+b^2*(6*a^2*B*d^2+b^2*c*(-A*d+B*c)-4*a*b*d*(-A*d+B*c))*x^(1+2*n)*(e*x)^m/d^3/(1+m+2*n)-b^3*(-A*b*d-4*B*a*d+B*b*c)*x^(1+3*n)*(e*x)^m/d^2/(1+m+3*n)+b^4*B*x^(1+4*n)*(e*x)^m/d/(1+m+4*n)+(a^4*B*d^4+b^4*c^3*(-A*d+B*c)-4*a*b^3*c^2*d*(-A*d+B*c)+6*a^2*b^2*c*d^2*(-A*d+B*c)-4*a^3*b*d^3*(-A*d+B*c))*(e*x)^(1+m)/d^5/e/(1+m)-(a*d+b*c)^4*(-A*d+B*c)*(e*x)^(1+m)*hypergeom([1, (1+m)/n], [(1+m+n)/n], -d*x^n/c)/c/d^5/e/(1+m)
```

Rubi [A] (verified)

Time = 0.41 (sec) , antiderivative size = 380, normalized size of antiderivative = 1.00,
 number of steps used = 11, number of rules used = 4, $\frac{\text{number of rules}}{\text{integrand size}} = 0.129$, Rules used
 = {584, 20, 30, 371}

$$\int \frac{(ex)^m (a + bx^n)^4 (A + Bx^n)}{c + dx^n} dx$$

$$= \frac{b^2 x^{2n+1} (ex)^m (6a^2 B d^2 - 4abd(Bc - Ad) + b^2 c(Bc - Ad))}{d^3(m + 2n + 1)}$$

$$+ \frac{bx^{n+1} (ex)^m (4a^3 B d^3 - 6a^2 b d^2 (Bc - Ad) + 4ab^2 c d (Bc - Ad) + b^3 (-c^2) (Bc - Ad))}{d^4(m + n + 1)}$$

$$+ \frac{(ex)^{m+1} (a^4 B d^4 - 4a^3 b d^3 (Bc - Ad) + 6a^2 b^2 c d^2 (Bc - Ad) - 4ab^3 c^2 d (Bc - Ad) + b^4 c^3 (Bc - Ad))}{d^5 e(m + 1)}$$

$$- \frac{b^3 x^{3n+1} (ex)^m (-4aBd - Abd + bBc)}{d^2(m + 3n + 1)}$$

$$- \frac{(ex)^{m+1} (bc - ad)^4 (Bc - Ad) \text{Hypergeometric2F1}\left(1, \frac{m+1}{n}, \frac{m+n+1}{n}, -\frac{dx^n}{c}\right)}{cd^5 e(m + 1)}$$

$$+ \frac{b^4 B x^{4n+1} (ex)^m}{d(m + 4n + 1)}$$

[In] Int[((e*x)^m*(a + b*x^n)^4*(A + B*x^n))/(c + d*x^n),x]

[Out] (b*(4*a^3*B*d^3 - b^3*c^2*(B*c - A*d) + 4*a*b^2*c*d*(B*c - A*d) - 6*a^2*b*d^2*(B*c - A*d))*x^(1 + n)*(e*x)^m/(d^4*(1 + m + n)) + (b^2*(6*a^2*B*d^2 + b^2*c*(B*c - A*d) - 4*a*b*d*(B*c - A*d))*x^(1 + 2*n)*(e*x)^m/(d^3*(1 + m + 2*n)) - (b^3*(b*B*c - A*b*d - 4*a*B*d)*x^(1 + 3*n)*(e*x)^m/(d^2*(1 + m + 3*n)) + (b^4*B*x^(1 + 4*n)*(e*x)^m)/(d*(1 + m + 4*n)) + ((a^4*B*d^4 + b^4*c^3*(B*c - A*d) - 4*a*b^3*c^2*d*(B*c - A*d) + 6*a^2*b^2*c*d^2*(B*c - A*d) - 4*a^3*b*d^3*(B*c - A*d))*(e*x)^(1 + m))/(d^5*e*(1 + m)) - ((b*c - a*d)^4*(B*c - A*d)*(e*x)^(1 + m)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -(d*x^n)/c])/(c*d^5*e*(1 + m))

Rule 20

Int[(u_.)*((a_.)*(v_))^(m_)*((b_.)*(v_))^(n_), x_Symbol] := Dist[b^IntPart[n]*((b*v)^FracPart[n]/(a^IntPart[n]*(a*v)^FracPart[n])), Int[u*(a*v)^(m + n), x], x] /; FreeQ[{a, b, m, n}, x] && !IntegerQ[m] && !IntegerQ[n] && !IntegerQ[m + n]

Rule 30

Int[(x_)^(m_.), x_Symbol] := Simp[x^(m + 1)/(m + 1), x] /; FreeQ[m, x] && N eQ[m, -1]

Rule 371

Int[((c_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_), x_Symbol] :> Simp[a^p * ((c*x)^(m + 1)/(c*(m + 1)))*Hypergeometric2F1[-p, (m + 1)/n, (m + 1)/n + 1, (-b)*(x^n/a)], x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILtQ[p, 0] || GtQ[a, 0])

Rule 584

Int[((g_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_.)*((c_) + (d_.)*(x_)^(n_))^(q_.)*((e_) + (f_.)*(x_)^(n_))^(r_.), x_Symbol] :> Int[ExpandIntegrand[(g*x)^m*(a + b*x^n)^p*(c + d*x^n)^q*(e + f*x^n)^r, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n}, x] && IGtQ[p, -2] && IGtQ[q, 0] && IGtQ[r, 0]

Rubi steps

integral

$$\begin{aligned}
&= \int \left(\frac{(a^4 B d^4 + b^4 c^3 (Bc - Ad) - 4ab^3 c^2 d (Bc - Ad) + 6a^2 b^2 c d^2 (Bc - Ad) - 4a^3 b d^3 (Bc - Ad)) (ex)^m}{d^5} \right. \\
&\quad + \frac{b(4a^3 B d^3 - b^3 c^2 (Bc - Ad) + 4ab^2 c d (Bc - Ad) - 6a^2 b d^2 (Bc - Ad)) x^n (ex)^m}{d^4} \\
&\quad + \frac{b^2(6a^2 B d^2 + b^2 c (Bc - Ad) - 4abd (Bc - Ad)) x^{2n} (ex)^m}{d^3} \\
&\quad \left. + \frac{b^3(-bBc + Abd + 4aBd)x^{3n} (ex)^m}{d^2} + \frac{b^4 B x^{4n} (ex)^m}{d} + \frac{(-bc + ad)^4 (-Bc + Ad) (ex)^m}{d^5 (c + dx^n)} \right) dx \\
&= \frac{(a^4 B d^4 + b^4 c^3 (Bc - Ad) - 4ab^3 c^2 d (Bc - Ad) + 6a^2 b^2 c d^2 (Bc - Ad) - 4a^3 b d^3 (Bc - Ad)) (ex)^{1+m}}{d^5 e(1+m)} \\
&\quad + \frac{(b^4 B) \int x^{4n} (ex)^m dx}{d} - \frac{((bc - ad)^4 (Bc - Ad)) \int \frac{(ex)^m}{c + dx^n} dx}{d^5} \\
&\quad - \frac{(b^3 (bBc - Abd - 4aBd)) \int x^{3n} (ex)^m dx}{d^2} \\
&\quad + \frac{(b^2 (6a^2 B d^2 + b^2 c (Bc - Ad) - 4abd (Bc - Ad))) \int x^{2n} (ex)^m dx}{d^3} \\
&\quad + \frac{(b(4a^3 B d^3 - b^3 c^2 (Bc - Ad) + 4ab^2 c d (Bc - Ad) - 6a^2 b d^2 (Bc - Ad))) \int x^n (ex)^m dx}{d^4}
\end{aligned}$$

$$\begin{aligned}
&= \frac{(a^4 B d^4 + b^4 c^3 (B c - A d) - 4 a b^3 c^2 d (B c - A d) + 6 a^2 b^2 c d^2 (B c - A d) - 4 a^3 b d^3 (B c - A d)) (e x)^{1+m}}{d^5 e (1+m)} \\
&- \frac{(b c - a d)^4 (B c - A d) (e x)^{1+m} {}_2F_1\left(1, \frac{1+m}{n}; \frac{1+m+n}{n}; -\frac{d x^n}{c}\right)}{c d^5 e (1+m)} \\
&+ \frac{(b^4 B x^{-m} (e x)^m) \int x^{m+4n} dx}{d} - \frac{(b^3 (b B c - A b d - 4 a B d) x^{-m} (e x)^m) \int x^{m+3n} dx}{d^2} \\
&+ \frac{(b^2 (6 a^2 B d^2 + b^2 c (B c - A d) - 4 a b d (B c - A d)) x^{-m} (e x)^m) \int x^{m+2n} dx}{d^3} \\
&+ \frac{(b (4 a^3 B d^3 - b^3 c^2 (B c - A d) + 4 a b^2 c d (B c - A d) - 6 a^2 b d^2 (B c - A d)) x^{-m} (e x)^m) \int x^{m+n} dx}{d^4} \\
&= \frac{b (4 a^3 B d^3 - b^3 c^2 (B c - A d) + 4 a b^2 c d (B c - A d) - 6 a^2 b d^2 (B c - A d)) x^{1+n} (e x)^m}{d^4 (1+m+n)} \\
&+ \frac{b^2 (6 a^2 B d^2 + b^2 c (B c - A d) - 4 a b d (B c - A d)) x^{1+2n} (e x)^m}{d^3 (1+m+2n)} \\
&- \frac{b^3 (b B c - A b d - 4 a B d) x^{1+3n} (e x)^m}{d^2 (1+m+3n)} + \frac{b^4 B x^{1+4n} (e x)^m}{d (1+m+4n)} \\
&+ \frac{(a^4 B d^4 + b^4 c^3 (B c - A d) - 4 a b^3 c^2 d (B c - A d) + 6 a^2 b^2 c d^2 (B c - A d) - 4 a^3 b d^3 (B c - A d)) (e x)^{1+m}}{d^5 e (1+m)} \\
&- \frac{(b c - a d)^4 (B c - A d) (e x)^{1+m} {}_2F_1\left(1, \frac{1+m}{n}; \frac{1+m+n}{n}; -\frac{d x^n}{c}\right)}{c d^5 e (1+m)}
\end{aligned}$$

Mathematica [A] (verified)

Time = 1.31 (sec) , antiderivative size = 332, normalized size of antiderivative = 0.87

$$\begin{aligned}
&\int \frac{(e x)^m (a + b x^n)^4 (A + B x^n)}{c + d x^n} dx \\
&= \frac{x (e x)^m \left(\frac{a^4 B d^4 + b^4 c^3 (B c - A d) + 6 a^2 b^2 c d^2 (B c - A d) + 4 a b^3 c^2 d (-B c + A d) + 4 a^3 b d^3 (-B c + A d)}{1+m} + \frac{b d (4 a^3 B d^3 + 4 a b^2 c d (B c - A d) + b^3 c^2 (-B c + A d))}{1+m+n} \right)}{c + d x^n}
\end{aligned}$$

[In] Integrate[((e*x)^m*(a + b*x^n)^4*(A + B*x^n))/(c + d*x^n),x]

[Out] (x*(e*x)^m*((a^4*B*d^4 + b^4*c^3*(B*c - A*d) + 6*a^2*b^2*c*d^2*(B*c - A*d) + 4*a*b^3*c^2*d*(-(B*c) + A*d) + 4*a^3*b*d^3*(-(B*c) + A*d))/(1+m) + (b*d*(4*a^3*B*d^3 + 4*a*b^2*c*d*(B*c - A*d) + b^3*c^2*(-(B*c) + A*d) + 6*a^2*b*d^2*(-(B*c) + A*d))*x^n)/(1+m+n) + (b^2*d^2*(6*a^2*B*d^2 + b^2*c*(B*c - A*d) + 4*a*b*d*(-(B*c) + A*d))*x^(2*n))/(1+m+2*n) + (b^3*d^3*(-(b*B*c) + A*b*d + 4*a*B*d)*x^(3*n))/(1+m+3*n) + (b^4*B*d^4*x^(4*n))/(1+m+4*n) - ((b*c - a*d)^4*(B*c - A*d)*Hypergeometric2F1[1, (1+m)/n, (1+m+n)/n, -(d*x^n)/c])/(c*(1+m)))/d^5

Maple [F]

$$\int \frac{(ex)^m (a + bx^n)^4 (A + Bx^n)}{c + dx^n} dx$$

[In] int((e*x)^m*(a+b*x^n)^4*(A+B*x^n)/(c+d*x^n), x)

[Out] int((e*x)^m*(a+b*x^n)^4*(A+B*x^n)/(c+d*x^n), x)

Fricas [F]

$$\int \frac{(ex)^m (a + bx^n)^4 (A + Bx^n)}{c + dx^n} dx = \int \frac{(Bx^n + A)(bx^n + a)^4 (ex)^m}{dx^n + c} dx$$

[In] integrate((e*x)^m*(a+b*x^n)^4*(A+B*x^n)/(c+d*x^n), x, algorithm="fricas")

[Out] integral((B*b^4*x^(5*n) + A*a^4 + (4*B*a*b^3 + A*b^4)*x^(4*n) + 2*(3*B*a^2*b^2 + 2*A*a*b^3)*x^(3*n) + 2*(2*B*a^3*b + 3*A*a^2*b^2)*x^(2*n) + (B*a^4 + 4*A*a^3*b)*x^n)*(e*x)^m/(d*x^n + c), x)

Sympy [C] (verification not implemented)

Result contains complex when optimal does not.

Time = 28.35 (sec) , antiderivative size = 2463, normalized size of antiderivative = 6.48

$$\int \frac{(ex)^m (a + bx^n)^4 (A + Bx^n)}{c + dx^n} dx = \text{Too large to display}$$

[In] integrate((e*x)**m*(a+b*x**n)**4*(A+B*x**n)/(c+d*x**n), x)

[Out] A*a**4*c**(m/n + 1/n)*c**(-m/n - 1 - 1/n)*e**m*x**(m + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1/n)*gamma(m/n + 1/n)/(n**2*gamma(m/n + 1 + 1/n)) + A*a**4*c**(m/n + 1/n)*c**(-m/n - 1 - 1/n)*e**m*x**(m + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1/n)*gamma(m/n + 1/n)/(n**2*gamma(m/n + 1 + 1/n)) + 4*A*a**3*b*c**(-m/n - 2 - 1/n)*c**(m/n + 1 + 1/n)*e**m*x**(m + n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1 + 1/n)*gamma(m/n + 1 + 1/n)/(n**2*gamma(m/n + 2 + 1/n)) + 4*A*a**3*b*c**(-m/n - 2 - 1/n)*c**(m/n + 1 + 1/n)*e**m*x**(m + n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1 + 1/n)*gamma(m/n + 1 + 1/n)/(n*gamma(m/n + 2 + 1/n)) + 4*A*a**3*b*c**(-m/n - 2 - 1/n)*c**(m/n + 1 + 1/n)*e**m*x**(m + n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1 + 1/n)*gamma(m/n + 1 + 1/n)/(n**2*gamma(m/n + 2 + 1/n)) + 6*A*a**2*b**2*c**(-m/n - 3 - 1/n)*c**(m/n + 2 + 1/n)*e**m*x**(m + 2*n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 2 + 1/n)*gamma(m/n + 2 + 1/n)/(n**2*gamma(m/n + 3 + 1/n)) + 12*A*a**2*b**2*c**(-m/n - 3 - 1/n)*c**

$$\begin{aligned}
& (m/n + 2 + 1/n) * e^{m*x} * (m + 2*n + 1) * \text{lerchphi}(d*x^n * \exp_polar(I*pi)/c, 1, \\
& m/n + 2 + 1/n) * \gamma(m/n + 2 + 1/n) / (n * \gamma(m/n + 3 + 1/n)) + 6 * A * a^{*2} * b^{*2} * c^{*(-m/n - 3 - 1/n)} * c^{(m/n + 2 + 1/n)} * e^{m*x} * (m + 2*n + 1) * \text{lerchphi}(d * \\
& x^n * \exp_polar(I*pi)/c, 1, m/n + 2 + 1/n) * \gamma(m/n + 2 + 1/n) / (n^{*2} * \gamma(m/n + 3 + 1/n)) + 4 * A * a * b^{*3} * c^{*(-m/n - 4 - 1/n)} * c^{(m/n + 3 + 1/n)} * e^{m*m * \\
& x^{(m + 3*n + 1)} * \text{lerchphi}(d*x^n * \exp_polar(I*pi)/c, 1, m/n + 3 + 1/n) * \gamma(m/n + 3 + 1/n) / (n^{*2} * \gamma(m/n + 4 + 1/n)) + 12 * A * a * b^{*3} * c^{*(-m/n - 4 - 1/ \\
& n)} * c^{(m/n + 3 + 1/n)} * e^{m*x} * (m + 3*n + 1) * \text{lerchphi}(d*x^n * \exp_polar(I*pi) / c, 1, m/n + 3 + 1/n) * \gamma(m/n + 3 + 1/n) / (n * \gamma(m/n + 4 + 1/n)) + 4 * A * a \\
& * b^{*3} * c^{*(-m/n - 4 - 1/n)} * c^{(m/n + 3 + 1/n)} * e^{m*x} * (m + 3*n + 1) * \text{lerchphi}(d*x^n * \exp_polar(I*pi)/c, 1, m/n + 3 + 1/n) * \gamma(m/n + 3 + 1/n) / (n^{*2} * \gamma(m/n + 4 + 1/n)) + A * b^{*4} * c^{*(-m/n - 5 - 1/n)} * c^{(m/n + 4 + 1/n)} * e^{m*m * x \\
& * (m + 4*n + 1) * \text{lerchphi}(d*x^n * \exp_polar(I*pi)/c, 1, m/n + 4 + 1/n) * \gamma(m/n + 4 + 1/n) / (n^{*2} * \gamma(m/n + 5 + 1/n)) + 4 * A * b^{*4} * c^{*(-m/n - 5 - 1/n)} * c^{(m/n + 4 + 1/n)} * e^{m*x} * (m + 4*n + 1) * \text{lerchphi}(d*x^n * \exp_polar(I*pi)/c, \\
& 1, m/n + 4 + 1/n) * \gamma(m/n + 4 + 1/n) / (n * \gamma(m/n + 5 + 1/n)) + A * b^{*4} * c^{*(-m/n - 5 - 1/n)} * c^{(m/n + 4 + 1/n)} * e^{m*x} * (m + 4*n + 1) * \text{lerchphi}(d*x^n * \\
& \exp_polar(I*pi)/c, 1, m/n + 4 + 1/n) * \gamma(m/n + 4 + 1/n) / (n^{*2} * \gamma(m/n + 5 + 1/n)) + B * a^{*4} * c^{*(-m/n - 2 - 1/n)} * c^{(m/n + 1 + 1/n)} * e^{m*m * x} * (m + n \\
& + 1) * \text{lerchphi}(d*x^n * \exp_polar(I*pi)/c, 1, m/n + 1 + 1/n) * \gamma(m/n + 1 + 1/n) / (n^{*2} * \gamma(m/n + 2 + 1/n)) + B * a^{*4} * c^{*(-m/n - 2 - 1/n)} * c^{(m/n + 1 + 1/n)} * e^{m*x} * (m + n + 1) * \text{lerchphi}(d*x^n * \exp_polar(I*pi)/c, 1, m/n + 1 + 1/n) * \gamma(m/n + 1 + 1/n) / (n * \gamma(m/n + 2 + 1/n)) + B * a^{*4} * c^{*(-m/n - 2 - 1/n)} * c^{(m/n + 1 + 1/n)} * e^{m*x} * (m + n + 1) * \text{lerchphi}(d*x^n * \exp_polar(I*pi)/c, 1, m/n + 1 + 1/n) * \gamma(m/n + 1 + 1/n) / (n^{*2} * \gamma(m/n + 2 + 1/n)) + 4 * B \\
& * a^{*3} * b * c^{*(-m/n - 3 - 1/n)} * c^{(m/n + 2 + 1/n)} * e^{m*m * x} * (m + 2*n + 1) * \text{lerchphi}(d*x^n * \exp_polar(I*pi)/c, 1, m/n + 2 + 1/n) * \gamma(m/n + 2 + 1/n) / (n^{*2} * \gamma(m/n + 3 + 1/n)) + 8 * B * a^{*3} * b * c^{*(-m/n - 3 - 1/n)} * c^{(m/n + 2 + 1/n)} * e^{m*x} * (m + 2*n + 1) * \text{lerchphi}(d*x^n * \exp_polar(I*pi)/c, 1, m/n + 2 + 1/n) * \gamma(m/n + 2 + 1/n) / (n * \gamma(m/n + 3 + 1/n)) + 4 * B * a^{*3} * b * c^{*(-m/n - 3 - 1/n)} * c^{(m/n + 2 + 1/n)} * e^{m*x} * (m + 2*n + 1) * \text{lerchphi}(d*x^n * \exp_polar(I*pi) / c, 1, m/n + 2 + 1/n) * \gamma(m/n + 2 + 1/n) / (n^{*2} * \gamma(m/n + 3 + 1/n)) + 6 * B * a^{*2} * b^{*2} * c^{*(-m/n - 4 - 1/n)} * c^{(m/n + 3 + 1/n)} * e^{m*m * x} * (m + 3*n + 1) * \text{lerchphi}(d*x^n * \exp_polar(I*pi)/c, 1, m/n + 3 + 1/n) * \gamma(m/n + 3 + 1/n) / (n^{*2} * \gamma(m/n + 4 + 1/n)) + 18 * B * a^{*2} * b^{*2} * c^{*(-m/n - 4 - 1/n)} * c^{(m/n + 3 + 1/n)} * e^{m*x} * (m + 3*n + 1) * \text{lerchphi}(d*x^n * \exp_polar(I*pi)/c, 1, m/n + 3 + 1/n) * \gamma(m/n + 3 + 1/n) / (n * \gamma(m/n + 4 + 1/n)) + 6 * B * a^{*2} * b^{*2} * c^{*(-m/n - 4 - 1/n)} * c^{(m/n + 3 + 1/n)} * e^{m*x} * (m + 3*n + 1) * \text{lerchphi}(d*x^n * \exp_polar(I*pi)/c, 1, m/n + 3 + 1/n) * \gamma(m/n + 3 + 1/n) / (n^{*2} * \gamma(m/n + 4 + 1/n)) + 4 * B * a * b^{*3} * c^{*(-m/n - 5 - 1/n)} * c^{(m/n + 4 + 1/n)} * e^{m*m * x} * (m + 4*n + 1) * \text{lerchphi}(d*x^n * \exp_polar(I*pi)/c, 1, m/n + 4 + 1/n) * \gamma(m/n + 4 + 1/n) / (n^{*2} * \gamma(m/n + 5 + 1/n)) + 16 * B * a * b^{*3} * c^{*(-m/n - 5 - 1/n)} * c^{(m/n + 4 + 1/n)} * e^{m*x} * (m + 4*n + 1) * \text{lerchphi}(d*x^n * \exp_polar(I*pi)/c, 1, m/n + 4 + 1/n) * \gamma(m/n + 4 + 1/n) / (n * \gamma(m/n + 5 + 1/n)) + 4 * B * a * b^{*3} * c^{*(-m/n - 5 - 1/n)} * c^{(m/n + 4 + 1/n)} * e^{m*x} * (m + 4*n + 1) * \text{lerchphi}(d*x^n *
\end{aligned}$$

```
*exp_polar(I*pi)/c, 1, m/n + 4 + 1/n)*gamma(m/n + 4 + 1/n)/(n**2*gamma(m/n
+ 5 + 1/n)) + B*b**4*c**(-m/n - 6 - 1/n)*c**(m/n + 5 + 1/n)*e**m*x**(m +
5*n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 5 + 1/n)*gamma(m/n + 5
+ 1/n)/(n**2*gamma(m/n + 6 + 1/n)) + 5*B*b**4*c**(-m/n - 6 - 1/n)*c**(m/n
+ 5 + 1/n)*e**m*x**(m + 5*n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n
+ 5 + 1/n)*gamma(m/n + 5 + 1/n)/(n*gamma(m/n + 6 + 1/n)) + B*b**4*c**(-m/n
- 6 - 1/n)*c**(m/n + 5 + 1/n)*e**m*x**(m + 5*n + 1)*lerchphi(d*x**n*exp_pol
ar(I*pi)/c, 1, m/n + 5 + 1/n)*gamma(m/n + 5 + 1/n)/(n**2*gamma(m/n + 6 + 1/
n))
```

Maxima [F]

$$\int \frac{(ex)^m (a + bx^n)^4 (A + Bx^n)}{c + dx^n} dx = \int \frac{(Bx^n + A)(bx^n + a)^4 (ex)^m}{dx^n + c} dx$$

```
[In] integrate((e*x)^m*(a+b*x^n)^4*(A+B*x^n)/(c+d*x^n),x, algorithm="maxima")
```

```
[Out] ((b^4*c^4*d*e^m - 4*a*b^3*c^3*d^2*e^m + 6*a^2*b^2*c^2*d^3*e^m - 4*a^3*b*c*d
^4*e^m + a^4*d^5*e^m)*A - (b^4*c^5*e^m - 4*a*b^3*c^4*d*e^m + 6*a^2*b^2*c^3*
d^2*e^m - 4*a^3*b*c^2*d^3*e^m + a^4*c*d^4*e^m)*B)*integrate(x^m/(d^6*x^n +
c*d^5), x) + ((m^4 + 2*m^3*(3*n + 2) + (11*n^2 + 18*n + 6)*m^2 + 6*n^3 + 2*
(3*n^3 + 11*n^2 + 9*n + 2)*m + 11*n^2 + 6*n + 1)*B*b^4*d^4*e^m*x*e^(m*log(x
) + 4*n*log(x)) - (((m^4 + 2*m^3*(5*n + 2) + 24*n^4 + (35*n^2 + 30*n + 6)*m
^2 + 50*n^3 + 2*(25*n^3 + 35*n^2 + 15*n + 2)*m + 35*n^2 + 10*n + 1)*b^4*c^3
*d*e^m - 4*(m^4 + 2*m^3*(5*n + 2) + 24*n^4 + (35*n^2 + 30*n + 6)*m^2 + 50*n
^3 + 2*(25*n^3 + 35*n^2 + 15*n + 2)*m + 35*n^2 + 10*n + 1)*a*b^3*c^2*d^2*e
^m + 6*(m^4 + 2*m^3*(5*n + 2) + 24*n^4 + (35*n^2 + 30*n + 6)*m^2 + 50*n^3 +
2*(25*n^3 + 35*n^2 + 15*n + 2)*m + 35*n^2 + 10*n + 1)*a^2*b^2*c*d^3*e^m - 4
*(m^4 + 2*m^3*(5*n + 2) + 24*n^4 + (35*n^2 + 30*n + 6)*m^2 + 50*n^3 + 2*(25
*n^3 + 35*n^2 + 15*n + 2)*m + 35*n^2 + 10*n + 1)*a^3*b*d^4*e^m)*A - ((m^4 +
2*m^3*(5*n + 2) + 24*n^4 + (35*n^2 + 30*n + 6)*m^2 + 50*n^3 + 2*(25*n^3 +
35*n^2 + 15*n + 2)*m + 35*n^2 + 10*n + 1)*b^4*c^4*e^m - 4*(m^4 + 2*m^3*(5*n
+ 2) + 24*n^4 + (35*n^2 + 30*n + 6)*m^2 + 50*n^3 + 2*(25*n^3 + 35*n^2 + 15
*n + 2)*m + 35*n^2 + 10*n + 1)*a*b^3*c^3*d*e^m + 6*(m^4 + 2*m^3*(5*n + 2) +
24*n^4 + (35*n^2 + 30*n + 6)*m^2 + 50*n^3 + 2*(25*n^3 + 35*n^2 + 15*n + 2)
*m + 35*n^2 + 10*n + 1)*a^2*b^2*c^2*d^2*e^m - 4*(m^4 + 2*m^3*(5*n + 2) + 24
*n^4 + (35*n^2 + 30*n + 6)*m^2 + 50*n^3 + 2*(25*n^3 + 35*n^2 + 15*n + 2)*m
+ 35*n^2 + 10*n + 1)*a^3*b*c*d^3*e^m + (m^4 + 2*m^3*(5*n + 2) + 24*n^4 + (3
5*n^2 + 30*n + 6)*m^2 + 50*n^3 + 2*(25*n^3 + 35*n^2 + 15*n + 2)*m + 35*n^2
+ 10*n + 1)*a^4*d^4*e^m)*B)*x*x^m + ((m^4 + m^3*(7*n + 4) + (14*n^2 + 21*n
+ 6)*m^2 + 8*n^3 + (8*n^3 + 28*n^2 + 21*n + 4)*m + 14*n^2 + 7*n + 1)*A*b^4*
d^4*e^m - ((m^4 + m^3*(7*n + 4) + (14*n^2 + 21*n + 6)*m^2 + 8*n^3 + (8*n^3
+ 28*n^2 + 21*n + 4)*m + 14*n^2 + 7*n + 1)*b^4*c*d^3*e^m - 4*(m^4 + m^3*(7*
n + 4) + (14*n^2 + 21*n + 6)*m^2 + 8*n^3 + (8*n^3 + 28*n^2 + 21*n + 4)*m +
```

```

14*n^2 + 7*n + 1)*a*b^3*d^4*e^m)*B)*x*e^(m*log(x) + 3*n*log(x)) - (((m^4 +
4*m^3*(2*n + 1) + (19*n^2 + 24*n + 6)*m^2 + 12*n^3 + 2*(6*n^3 + 19*n^2 + 12
*n + 2)*m + 19*n^2 + 8*n + 1)*b^4*c*d^3*e^m - 4*(m^4 + 4*m^3*(2*n + 1) + (1
9*n^2 + 24*n + 6)*m^2 + 12*n^3 + 2*(6*n^3 + 19*n^2 + 12*n + 2)*m + 19*n^2 +
8*n + 1)*a*b^3*d^4*e^m)*A - ((m^4 + 4*m^3*(2*n + 1) + (19*n^2 + 24*n + 6)*
m^2 + 12*n^3 + 2*(6*n^3 + 19*n^2 + 12*n + 2)*m + 19*n^2 + 8*n + 1)*b^4*c^2*
d^2*e^m - 4*(m^4 + 4*m^3*(2*n + 1) + (19*n^2 + 24*n + 6)*m^2 + 12*n^3 + 2*(
6*n^3 + 19*n^2 + 12*n + 2)*m + 19*n^2 + 8*n + 1)*a*b^3*c*d^3*e^m + 6*(m^4 +
4*m^3*(2*n + 1) + (19*n^2 + 24*n + 6)*m^2 + 12*n^3 + 2*(6*n^3 + 19*n^2 + 1
2*n + 2)*m + 19*n^2 + 8*n + 1)*a^2*b^2*d^4*e^m)*B)*x*e^(m*log(x) + 2*n*log(
x)) + (((m^4 + m^3*(9*n + 4) + (26*n^2 + 27*n + 6)*m^2 + 24*n^3 + (24*n^3 +
52*n^2 + 27*n + 4)*m + 26*n^2 + 9*n + 1)*b^4*c^2*d^2*e^m - 4*(m^4 + m^3*(9
*n + 4) + (26*n^2 + 27*n + 6)*m^2 + 24*n^3 + (24*n^3 + 52*n^2 + 27*n + 4)*m
+ 26*n^2 + 9*n + 1)*a*b^3*c*d^3*e^m + 6*(m^4 + m^3*(9*n + 4) + (26*n^2 + 2
7*n + 6)*m^2 + 24*n^3 + (24*n^3 + 52*n^2 + 27*n + 4)*m + 26*n^2 + 9*n + 1)*
a^2*b^2*d^4*e^m)*A - ((m^4 + m^3*(9*n + 4) + (26*n^2 + 27*n + 6)*m^2 + 24*n
^3 + (24*n^3 + 52*n^2 + 27*n + 4)*m + 26*n^2 + 9*n + 1)*b^4*c^3*d*e^m - 4*(
m^4 + m^3*(9*n + 4) + (26*n^2 + 27*n + 6)*m^2 + 24*n^3 + (24*n^3 + 52*n^2 +
27*n + 4)*m + 26*n^2 + 9*n + 1)*a*b^3*c^2*d^2*e^m + 6*(m^4 + m^3*(9*n + 4)
+ (26*n^2 + 27*n + 6)*m^2 + 24*n^3 + (24*n^3 + 52*n^2 + 27*n + 4)*m + 26*n
^2 + 9*n + 1)*a^2*b^2*c*d^3*e^m - 4*(m^4 + m^3*(9*n + 4) + (26*n^2 + 27*n +
6)*m^2 + 24*n^3 + (24*n^3 + 52*n^2 + 27*n + 4)*m + 26*n^2 + 9*n + 1)*a^3*b
*d^4*e^m)*B)*x*e^(m*log(x) + n*log(x)))/((m^5 + 5*m^4*(2*n + 1) + 5*(7*n^2
+ 8*n + 2)*m^3 + 24*n^4 + 5*(10*n^3 + 21*n^2 + 12*n + 2)*m^2 + 50*n^3 + (24
*n^4 + 100*n^3 + 105*n^2 + 40*n + 5)*m + 35*n^2 + 10*n + 1)*d^5)

```

Giac [F]

$$\int \frac{(ex)^m (a + bx^n)^4 (A + Bx^n)}{c + dx^n} dx = \int \frac{(Bx^n + A)(bx^n + a)^4 (ex)^m}{dx^n + c} dx$$

[In] integrate((e*x)^m*(a+b*x^n)^4*(A+B*x^n)/(c+d*x^n),x, algorithm="giac")

[Out] integrate((B*x^n + A)*(b*x^n + a)^4*(e*x)^m/(d*x^n + c), x)

Mupad [F(-1)]

Timed out.

$$\int \frac{(ex)^m (a + bx^n)^4 (A + Bx^n)}{c + dx^n} dx = \int \frac{(ex)^m (A + Bx^n) (a + bx^n)^4}{c + dx^n} dx$$

```
[In] int(((e*x)^m*(A + B*x^n)*(a + b*x^n)^4)/(c + d*x^n),x)
```

```
[Out] int(((e*x)^m*(A + B*x^n)*(a + b*x^n)^4)/(c + d*x^n), x)
```

$$3.22 \quad \int \frac{(ex)^m (a+bx^n)^3 (A+Bx^n)}{c+dx^n} dx$$

Optimal result	1000
Rubi [A] (verified)	1001
Mathematica [A] (verified)	1003
Maple [F]	1003
Fricas [F]	1004
Sympy [C] (verification not implemented)	1004
Maxima [F]	1005
Giac [F]	1006
Mupad [F(-1)]	1006

Optimal result

Integrand size = 31, antiderivative size = 272

$$\begin{aligned} & \int \frac{(ex)^m (a+bx^n)^3 (A+Bx^n)}{c+dx^n} dx \\ &= \frac{b(3a^2Bd^2 + b^2c(Bc-Ad) - 3abd(Bc-Ad)) x^{1+n} (ex)^m}{d^3(1+m+n)} \\ & \quad - \frac{b^2(bBc - Abd - 3aBd)x^{1+2n}(ex)^m}{d^2(1+m+2n)} + \frac{b^3Bx^{1+3n}(ex)^m}{d(1+m+3n)} \\ & \quad + \frac{(a^3Bd^3 - b^3c^2(Bc-Ad) + 3ab^2cd(Bc-Ad) - 3a^2bd^2(Bc-Ad))(ex)^{1+m}}{d^4e(1+m)} \\ & \quad + \frac{(bc-ad)^3(Bc-Ad)(ex)^{1+m} \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{dx^n}{c}\right)}{cd^4e(1+m)} \end{aligned}$$

```
[Out] b*(3*a^2*B*d^2+b^2*c*(-A*d+B*c)-3*a*b*d*(-A*d+B*c))*x^(1+n)*(e*x)^m/d^3/(1+m+n)-b^2*(-A*b*d-3*B*a*d+B*b*c)*x^(1+2*n)*(e*x)^m/d^2/(1+m+2*n)+b^3*B*x^(1+3*n)*(e*x)^m/d/(1+m+3*n)+(a^3*B*d^3-b^3*c^2*(-A*d+B*c)+3*a*b^2*c*d*(-A*d+B*c)-3*a^2*b*d^2*(-A*d+B*c))*(e*x)^(1+m)/d^4/e/(1+m)+(-a*d+b*c)^3*(-A*d+B*c)*(e*x)^(1+m)*hypergeom([1, (1+m)/n], [(1+m+n)/n], -d*x^n/c)/c/d^4/e/(1+m)
```


Rubi [A] (verified)

Time = 0.25 (sec) , antiderivative size = 272, normalized size of antiderivative = 1.00, number of steps used = 9, number of rules used = 4, $\frac{\text{number of rules}}{\text{integrand size}} = 0.129$, Rules used = {584, 20, 30, 371}

$$\int \frac{(ex)^m (a + bx^n)^3 (A + Bx^n)}{c + dx^n} dx$$

$$= \frac{bx^{n+1}(ex)^m (3a^2Bd^2 - 3abd(Bc - Ad) + b^2c(Bc - Ad))}{d^3(m + n + 1)}$$

$$+ \frac{(ex)^{m+1} (a^3Bd^3 - 3a^2bd^2(Bc - Ad) + 3ab^2cd(Bc - Ad) + b^3(-c^2)(Bc - Ad))}{d^4e(m + 1)}$$

$$- \frac{b^2x^{2n+1}(ex)^m(-3aBd - Abd + bBc)}{d^2(m + 2n + 1)}$$

$$+ \frac{(ex)^{m+1}(bc - ad)^3(Bc - Ad) \text{Hypergeometric2F1}\left(1, \frac{m+1}{n}, \frac{m+n+1}{n}, -\frac{dx^n}{c}\right)}{cd^4e(m + 1)}$$

$$+ \frac{b^3Bx^{3n+1}(ex)^m}{d(m + 3n + 1)}$$

[In] Int[((e*x)^m*(a + b*x^n)^3*(A + B*x^n))/(c + d*x^n),x]

[Out] (b*(3*a^2*B*d^2 + b^2*c*(B*c - A*d) - 3*a*b*d*(B*c - A*d))*x^(1 + n)*(e*x)^m)/(d^3*(1 + m + n)) - (b^2*(b*B*c - A*b*d - 3*a*B*d)*x^(1 + 2*n)*(e*x)^m)/(d^2*(1 + m + 2*n)) + (b^3*B*x^(1 + 3*n)*(e*x)^m)/(d*(1 + m + 3*n)) + ((a^3*B*d^3 - b^3*c^2*(B*c - A*d) + 3*a*b^2*c*d*(B*c - A*d) - 3*a^2*b*d^2*(B*c - A*d))*(e*x)^(1 + m))/(d^4*e*(1 + m)) + ((b*c - a*d)^3*(B*c - A*d)*(e*x)^(1 + m)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -((d*x^n)/c)])/(c*d^4*e*(1 + m))

Rule 20

Int[(u_.)*((a_.)*(v_))^(m_.)*((b_.)*(v_))^(n_.), x_Symbol] := Dist[b^IntPart[n]*((b*v)^FracPart[n]/(a^IntPart[n]*(a*v)^FracPart[n])), Int[u*(a*v)^(m + n), x], x] /; FreeQ[{a, b, m, n}, x] && !IntegerQ[m] && !IntegerQ[n] && !IntegerQ[m + n]

Rule 30

Int[(x_)^(m_.), x_Symbol] := Simp[x^(m + 1)/(m + 1), x] /; FreeQ[m, x] && N eQ[m, -1]

Rule 371

Int[((c_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_.))^(p_.), x_Symbol] := Simp[a^p*((c*x)^(m + 1)/(c*(m + 1)))*Hypergeometric2F1[-p, (m + 1)/n, (m + 1)/n + 1, (-b)*(x^n/a)], x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILt

Q[p, 0] || GtQ[a, 0])

Rule 584

Int[((g_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_)*((e_) + (f_)*(x_)^(n_))^(r_), x_Symbol] :> Int[ExpandIntegrand[(g*x)^m*(a + b*x^n)^p*(c + d*x^n)^q*(e + f*x^n)^r, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n}, x] && IGtQ[p, -2] && IGtQ[q, 0] && IGtQ[r, 0]

Rubi steps

$$\begin{aligned}
 \text{integral} &= \int \left(\frac{(a^3 B d^3 - b^3 c^2 (Bc - Ad) + 3ab^2 cd (Bc - Ad) - 3a^2 b d^2 (Bc - Ad)) (ex)^m}{d^4} \right. \\
 &\quad + \frac{b(3a^2 B d^2 + b^2 c (Bc - Ad) - 3abd (Bc - Ad)) x^n (ex)^m}{d^3} \\
 &\quad + \frac{b^2 (-b Bc + Abd + 3a B d) x^{2n} (ex)^m}{d^2} + \frac{b^3 B x^{3n} (ex)^m}{d} \\
 &\quad \left. + \frac{(-bc + ad)^3 (-Bc + Ad) (ex)^m}{d^4 (c + dx^n)} \right) dx \\
 &= \frac{(a^3 B d^3 - b^3 c^2 (Bc - Ad) + 3ab^2 cd (Bc - Ad) - 3a^2 b d^2 (Bc - Ad)) (ex)^{1+m}}{d^4 e (1+m)} \\
 &\quad + \frac{(b^3 B) \int x^{3n} (ex)^m dx}{d} + \frac{((bc - ad)^3 (Bc - Ad)) \int \frac{(ex)^m}{c + dx^n} dx}{d^4} \\
 &\quad - \frac{(b^2 (b Bc - Abd - 3a B d)) \int x^{2n} (ex)^m dx}{d^2} \\
 &\quad + \frac{(b(3a^2 B d^2 + b^2 c (Bc - Ad) - 3abd (Bc - Ad))) \int x^n (ex)^m dx}{d^3} \\
 &= \frac{(a^3 B d^3 - b^3 c^2 (Bc - Ad) + 3ab^2 cd (Bc - Ad) - 3a^2 b d^2 (Bc - Ad)) (ex)^{1+m}}{d^4 e (1+m)} \\
 &\quad + \frac{(bc - ad)^3 (Bc - Ad) (ex)^{1+m} {}_2F_1\left(1, \frac{1+m}{n}; \frac{1+m+n}{n}; -\frac{dx^n}{c}\right)}{cd^4 e (1+m)} \\
 &\quad + \frac{(b^3 B x^{-m} (ex)^m) \int x^{m+3n} dx}{d} - \frac{(b^2 (b Bc - Abd - 3a B d) x^{-m} (ex)^m) \int x^{m+2n} dx}{d^2} \\
 &\quad + \frac{(b(3a^2 B d^2 + b^2 c (Bc - Ad) - 3abd (Bc - Ad)) x^{-m} (ex)^m) \int x^{m+n} dx}{d^3}
 \end{aligned}$$

$$\begin{aligned}
&= \frac{b(3a^2Bd^2 + b^2c(Bc - Ad) - 3abd(Bc - Ad))x^{1+n}(ex)^m}{d^3(1+m+n)} \\
&\quad - \frac{b^2(bBc - Abd - 3aBd)x^{1+2n}(ex)^m}{d^2(1+m+2n)} + \frac{b^3Bx^{1+3n}(ex)^m}{d(1+m+3n)} \\
&\quad + \frac{(a^3Bd^3 - b^3c^2(Bc - Ad) + 3ab^2cd(Bc - Ad) - 3a^2bd^2(Bc - Ad))(ex)^{1+m}}{d^4e(1+m)} \\
&\quad + \frac{(bc - ad)^3(Bc - Ad)(ex)^{1+m} {}_2F_1\left(1, \frac{1+m}{n}; \frac{1+m+n}{n}; -\frac{dx^n}{c}\right)}{cd^4e(1+m)}
\end{aligned}$$

Mathematica [A] (verified)

Time = 0.85 (sec) , antiderivative size = 231, normalized size of antiderivative = 0.85

$$\int \frac{(ex)^m (a + bx^n)^3 (A + Bx^n)}{c + dx^n} dx$$

$$x(ex)^m \left(\frac{a^3Bd^3 + 3ab^2cd(Bc - Ad) + b^3c^2(-Bc + Ad) + 3a^2bd^2(-Bc + Ad)}{1+m} + \frac{bd(3a^2Bd^2 + b^2c(Bc - Ad) + 3abd(-Bc + Ad))x^n}{1+m+n} + \frac{b^2d^2(-bBc + A^2d)}{1+m+2n} \right) + \frac{b^3Bd^3x^{3n}}{1+m+3n} + \frac{(bc - ad)^3(Bc - Ad)(ex)^{1+m} {}_2F_1\left(1, \frac{1+m}{n}; \frac{1+m+n}{n}; -\frac{dx^n}{c}\right)}{cd^4e(1+m)}$$

[In] Integrate[((e*x)^m*(a + b*x^n)^3*(A + B*x^n))/(c + d*x^n),x]

[Out] (x*(e*x)^m*((a^3*B*d^3 + 3*a*b^2*c*d*(B*c - A*d) + b^3*c^2*(-(B*c) + A*d) + 3*a^2*b*d^2*(-(B*c) + A*d))/(1 + m) + (b*d*(3*a^2*B*d^2 + b^2*c*(B*c - A*d) + 3*a*b*d*(-(B*c) + A*d))*x^n)/(1 + m + n) + (b^2*d^2*(-(b*B*c) + A*b*d + 3*a*B*d)*x^(2*n))/(1 + m + 2*n) + (b^3*B*d^3*x^(3*n))/(1 + m + 3*n) + ((b*c - a*d)^3*(B*c - A*d)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -(d*x^n)/c]))/(c*(1 + m)))/d^4

Maple [F]

$$\int \frac{(ex)^m (a + bx^n)^3 (A + Bx^n)}{c + dx^n} dx$$

[In] int((e*x)^m*(a+b*x^n)^3*(A+B*x^n)/(c+d*x^n),x)

[Out] int((e*x)^m*(a+b*x^n)^3*(A+B*x^n)/(c+d*x^n),x)

Fricas [F]

$$\int \frac{(ex)^m (a + bx^n)^3 (A + Bx^n)}{c + dx^n} dx = \int \frac{(Bx^n + A)(bx^n + a)^3 (ex)^m}{dx^n + c} dx$$

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

[Out] integral((B*b^3*x^(4*n) + A*a^3 + (3*B*a*b^2 + A*b^3)*x^(3*n) + 3*(B*a^2*b + A*a*b^2)*x^(2*n) + (B*a^3 + 3*A*a^2*b)*x^n)*(e*x)^m/(d*x^n + c), x)

Sympy [C] (verification not implemented)

Result contains complex when optimal does not.

Time = 16.64 (sec) , antiderivative size = 1933, normalized size of antiderivative = 7.11

$$\int \frac{(ex)^m (a + bx^n)^3 (A + Bx^n)}{c + dx^n} dx = \text{Too large to display}$$

[In] integrate((e*x)**m*(a+b*x**n)**3*(A+B*x**n)/(c+d*x**n),x)

[Out] A*a**3*c**(m/n + 1/n)*c**(-m/n - 1 - 1/n)*e**m*x**(m + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1/n)*gamma(m/n + 1/n)/(n**2*gamma(m/n + 1 + 1/n)) + A*a**3*c**(m/n + 1/n)*c**(-m/n - 1 - 1/n)*e**m*x**(m + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1/n)*gamma(m/n + 1/n)/(n**2*gamma(m/n + 1 + 1/n)) + 3*A*a**2*b*c**(-m/n - 2 - 1/n)*c**(m/n + 1 + 1/n)*e**m*x**(m + n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1 + 1/n)*gamma(m/n + 1 + 1/n)/(n**2*gamma(m/n + 2 + 1/n)) + 3*A*a**2*b*c**(-m/n - 2 - 1/n)*c**(m/n + 1 + 1/n)*e**m*x**(m + n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1 + 1/n)*gamma(m/n + 1 + 1/n)/(n*gamma(m/n + 2 + 1/n)) + 3*A*a**2*b*c**(-m/n - 2 - 1/n)*c**(m/n + 1 + 1/n)*e**m*x**(m + n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1 + 1/n)*gamma(m/n + 1 + 1/n)/(n**2*gamma(m/n + 2 + 1/n)) + 3*A*a*b**2*c**(-m/n - 3 - 1/n)*c**(m/n + 2 + 1/n)*e**m*x**(m + 2*n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 2 + 1/n)*gamma(m/n + 2 + 1/n)/(n**2*gamma(m/n + 3 + 1/n)) + 6*A*a*b**2*c**(-m/n - 3 - 1/n)*c**(m/n + 2 + 1/n)*e**m*x**(m + 2*n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 2 + 1/n)*gamma(m/n + 2 + 1/n)/(n*gamma(m/n + 3 + 1/n)) + 3*A*a*b**2*c**(-m/n - 3 - 1/n)*c**(m/n + 2 + 1/n)*e**m*x**(m + 2*n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 2 + 1/n)*gamma(m/n + 2 + 1/n)/(n**2*gamma(m/n + 3 + 1/n)) + A*b**3*c**(-m/n - 4 - 1/n)*c**(m/n + 3 + 1/n)*e**m*x**(m + 3*n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 3 + 1/n)*gamma(m/n + 3 + 1/n)/(n**2*gamma(m/n + 4 + 1/n)) + 3*A*b**3*c**(-m/n - 4 - 1/n)*c**(m/n + 3 + 1/n)*e**m*x**(m + 3*n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 3 + 1/n)*gamma(m/n + 3 + 1/n)/(n*gamma(m/n + 4 + 1/n)) + A*b**3*c**(-m/n - 4 - 1/n)*c**(m/n + 3 + 1/n)*e**m*x**(m + 3*n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 3 + 1/n)*gamma(m/n + 3 + 1/n)/(n**2*gamma(m/n + 4 + 1/n))

$i)/c, 1, m/n + 3 + 1/n) * \text{gamma}(m/n + 3 + 1/n) / (n^{**2} * \text{gamma}(m/n + 4 + 1/n)) +$
 $B * a^{**3} * c^{**(-m/n - 2 - 1/n)} * c^{**m/n + 1 + 1/n} * e^{**m * x^{**m + n + 1}} * \text{lerchphi}$
 $(d * x^{**n} * \text{exp_polar}(I * \text{pi}) / c, 1, m/n + 1 + 1/n) * \text{gamma}(m/n + 1 + 1/n) / (n^{**2} * \text{ga}$
 $\text{mma}(m/n + 2 + 1/n)) + B * a^{**3} * c^{**(-m/n - 2 - 1/n)} * c^{**m/n + 1 + 1/n} * e^{**m * x^{**m + n + 1}} * \text{lerchphi}$
 $(d * x^{**n} * \text{exp_polar}(I * \text{pi}) / c, 1, m/n + 1 + 1/n) * \text{gamma}(m/n + 1 + 1/n) / (n * \text{gamma}(m/n + 2 + 1/n)) + B * a^{**3} * c^{**(-m/n - 2 - 1/n)} * c^{**m/n + 1 + 1/n} * e^{**m * x^{**m + n + 1}} * \text{lerchphi}$
 $(d * x^{**n} * \text{exp_polar}(I * \text{pi}) / c, 1, m/n + 1 + 1/n) * \text{gamma}(m/n + 1 + 1/n) / (n^{**2} * \text{gamma}(m/n + 2 + 1/n)) + 3 * B * a^{**2} * b * c^{**(-m/n - 3 - 1/n)} * c^{**m/n + 2 + 1/n} * e^{**m * x^{**m + 2 * n + 1}} * \text{lerchphi}$
 $(d * x^{**n} * \text{exp_polar}(I * \text{pi}) / c, 1, m/n + 2 + 1/n) * \text{gamma}(m/n + 2 + 1/n) / (n^{**2} * \text{gamma}(m/n + 3 + 1/n)) + 6 * B * a^{**2} * b * c^{**(-m/n - 3 - 1/n)} * c^{**m/n + 2 + 1/n} * e^{**m * x^{**m + 2 * n + 1}} * \text{lerchphi}$
 $(d * x^{**n} * \text{exp_polar}(I * \text{pi}) / c, 1, m/n + 2 + 1/n) * \text{gamma}(m/n + 2 + 1/n) / (n * \text{gamma}(m/n + 3 + 1/n)) + 3 * B * a^{**2} * b * c^{**(-m/n - 3 - 1/n)} * c^{**m/n + 2 + 1/n} * e^{**m * x^{**m + 2 * n + 1}} * \text{lerchphi}$
 $(d * x^{**n} * \text{exp_polar}(I * \text{pi}) / c, 1, m/n + 2 + 1/n) * \text{gamma}(m/n + 2 + 1/n) / (n^{**2} * \text{gamma}(m/n + 3 + 1/n)) + 3 * B * a * b^{**2} * c^{**(-m/n - 4 - 1/n)} * c^{**m/n + 3 + 1/n} * e^{**m * x^{**m + 3 * n + 1}} * \text{lerchphi}$
 $(d * x^{**n} * \text{exp_polar}(I * \text{pi}) / c, 1, m/n + 3 + 1/n) * \text{gamma}(m/n + 3 + 1/n) / (n^{**2} * \text{gamma}(m/n + 4 + 1/n)) + 9 * B * a * b^{**2} * c^{**(-m/n - 4 - 1/n)} * c^{**m/n + 3 + 1/n} * e^{**m * x^{**m + 3 * n + 1}} * \text{lerchphi}$
 $(d * x^{**n} * \text{exp_polar}(I * \text{pi}) / c, 1, m/n + 3 + 1/n) * \text{gamma}(m/n + 3 + 1/n) / (n * \text{gamma}(m/n + 4 + 1/n)) + 3 * B * a * b^{**2} * c^{**(-m/n - 4 - 1/n)} * c^{**m/n + 3 + 1/n} * e^{**m * x^{**m + 3 * n + 1}} * \text{lerchphi}$
 $(d * x^{**n} * \text{exp_polar}(I * \text{pi}) / c, 1, m/n + 3 + 1/n) * \text{gamma}(m/n + 3 + 1/n) / (n^{**2} * \text{gamma}(m/n + 4 + 1/n)) + B * b^{**3} * c^{**(-m/n - 5 - 1/n)} * c^{**m/n + 4 + 1/n} * e^{**m * x^{**m + 4 * n + 1}} * \text{lerchphi}$
 $(d * x^{**n} * \text{exp_polar}(I * \text{pi}) / c, 1, m/n + 4 + 1/n) * \text{gamma}(m/n + 4 + 1/n) / (n^{**2} * \text{gamma}(m/n + 5 + 1/n)) + 4 * B * b^{**3} * c^{**(-m/n - 5 - 1/n)} * c^{**m/n + 4 + 1/n} * e^{**m * x^{**m + 4 * n + 1}} * \text{lerchphi}$
 $(d * x^{**n} * \text{exp_polar}(I * \text{pi}) / c, 1, m/n + 4 + 1/n) * \text{gamma}(m/n + 4 + 1/n) / (n * \text{gamma}(m/n + 5 + 1/n)) + B * b^{**3} * c^{**(-m/n - 5 - 1/n)} * c^{**m/n + 4 + 1/n} * e^{**m * x^{**m + 4 * n + 1}} * \text{lerchphi}$
 $(d * x^{**n} * \text{exp_polar}(I * \text{pi}) / c, 1, m/n + 4 + 1/n) * \text{gamma}(m/n + 4 + 1/n) / (n^{**2} * \text{gamma}(m/n + 5 + 1/n))$

Maxima [F]

$$\int \frac{(ex)^m (a + bx^n)^3 (A + Bx^n)}{c + dx^n} dx = \int \frac{(Bx^n + A)(bx^n + a)^3 (ex)^m}{dx^n + c} dx$$

[In] integrate((e*x)^m*(a+b*x^n)^3*(A+B*x^n)/(c+d*x^n),x, algorithm="maxima")

[Out] $-(b^3*c^3*d*e^m - 3*a*b^2*c^2*d^2*e^m + 3*a^2*b*c*d^3*e^m - a^3*d^4*e^m)*A$
 $- (b^3*c^4*e^m - 3*a*b^2*c^3*d*e^m + 3*a^2*b*c^2*d^2*e^m - a^3*c*d^3*e^m)*$
 $B*\text{integrate}(x^m/(d^5*x^n + c*d^4), x) + ((m^3 + 3*m^2*(n + 1) + (2*n^2 + 6$
 $*n + 3)*m + 2*n^2 + 3*n + 1)*B*b^3*d^3*e^m*x*e^{(m*\log(x) + 3*n*\log(x))} + (($
 $(m^3 + 3*m^2*(2*n + 1) + 6*n^3 + (11*n^2 + 12*n + 3)*m + 11*n^2 + 6*n + 1)*$
 $b^3*c^2*d*e^m - 3*(m^3 + 3*m^2*(2*n + 1) + 6*n^3 + (11*n^2 + 12*n + 3)*m +$
 $11*n^2 + 6*n + 1)*a*b^2*c*d^2*e^m + 3*(m^3 + 3*m^2*(2*n + 1) + 6*n^3 + (11*$

$$\begin{aligned}
& n^2 + 12n + 3)m + 11n^2 + 6n + 1)a^2*b*d^3*e^m)*A - ((m^3 + 3m^2*(2n \\
& + 1) + 6n^3 + (11n^2 + 12n + 3)m + 11n^2 + 6n + 1)*b^3*c^3*e^m - 3*(\\
& m^3 + 3m^2*(2n + 1) + 6n^3 + (11n^2 + 12n + 3)m + 11n^2 + 6n + 1)*a \\
& *b^2*c^2*d*e^m + 3*(m^3 + 3m^2*(2n + 1) + 6n^3 + (11n^2 + 12n + 3)m + \\
& 11n^2 + 6n + 1)*a^2*b*c*d^2*e^m - (m^3 + 3m^2*(2n + 1) + 6n^3 + (11n \\
& ^2 + 12n + 3)m + 11n^2 + 6n + 1)*a^3*d^3*e^m)*B)*x*x^m + ((m^3 + m^2*(4 \\
& *n + 3) + (3n^2 + 8n + 3)m + 3n^2 + 4n + 1)*A*b^3*d^3*e^m - ((m^3 + m^ \\
& 2*(4n + 3) + (3n^2 + 8n + 3)m + 3n^2 + 4n + 1)*b^3*c*d^2*e^m - 3*(m^3 \\
& + m^2*(4n + 3) + (3n^2 + 8n + 3)m + 3n^2 + 4n + 1)*a*b^2*d^3*e^m)*B) \\
& *x*e^{(m*\log(x) + 2*n*\log(x))} - (((m^3 + m^2*(5n + 3) + (6n^2 + 10n + 3)* \\
& m + 6n^2 + 5n + 1)*b^3*c*d^2*e^m - 3*(m^3 + m^2*(5n + 3) + (6n^2 + 10n \\
& + 3)*m + 6n^2 + 5n + 1)*a*b^2*d^3*e^m)*A - ((m^3 + m^2*(5n + 3) + (6n^ \\
& 2 + 10n + 3)*m + 6n^2 + 5n + 1)*b^3*c^2*d*e^m - 3*(m^3 + m^2*(5n + 3) + \\
& (6n^2 + 10n + 3)*m + 6n^2 + 5n + 1)*a*b^2*c*d^2*e^m + 3*(m^3 + m^2*(5n \\
& + 3) + (6n^2 + 10n + 3)*m + 6n^2 + 5n + 1)*a^2*b*d^3*e^m)*B)*x*e^{(m*\log(x) + n*\log(x))} \\
&)/((m^4 + 2*m^3*(3n + 2) + (11n^2 + 18n + 6)*m^2 + 6n^ \\
& 3 + 2*(3n^3 + 11n^2 + 9n + 2)*m + 11n^2 + 6n + 1)*d^4)
\end{aligned}$$

Giac [F]

$$\int \frac{(ex)^m (a + bx^n)^3 (A + Bx^n)}{c + dx^n} dx = \int \frac{(Bx^n + A)(bx^n + a)^3 (ex)^m}{dx^n + c} dx$$

[In] integrate((e*x)^m*(a+b*x^n)^3*(A+B*x^n)/(c+d*x^n),x, algorithm="giac")

[Out] integrate((B*x^n + A)*(b*x^n + a)^3*(e*x)^m/(d*x^n + c), x)

Mupad [F(-1)]

Timed out.

$$\int \frac{(ex)^m (a + bx^n)^3 (A + Bx^n)}{c + dx^n} dx = \int \frac{(ex)^m (A + Bx^n) (a + bx^n)^3}{c + dx^n} dx$$

[In] int(((e*x)^m*(A + B*x^n)*(a + b*x^n)^3)/(c + d*x^n),x)

[Out] int(((e*x)^m*(A + B*x^n)*(a + b*x^n)^3)/(c + d*x^n), x)

3.23 $\int \frac{(ex)^m (a+bx^n)^2 (A+Bx^n)}{c+dx^n} dx$

Optimal result	1007
Rubi [A] (verified)	1007
Mathematica [A] (verified)	1009
Maple [F]	1010
Fricas [F]	1010
Sympy [C] (verification not implemented)	1010
Maxima [F]	1011
Giac [F]	1012
Mupad [F(-1)]	1012

Optimal result

Integrand size = 31, antiderivative size = 187

$$\int \frac{(ex)^m (a+bx^n)^2 (A+Bx^n)}{c+dx^n} dx$$

$$= -\frac{b(bBc - Abd - 2aBd)x^{1+n}(ex)^m}{d^2(1+m+n)} + \frac{b^2 Bx^{1+2n}(ex)^m}{d(1+m+2n)}$$

$$+ \frac{(a^2 B d^2 + b^2 c(Bc - Ad) - 2abd(Bc - Ad))(ex)^{1+m}}{d^3 e(1+m)}$$

$$- \frac{(bc - ad)^2 (Bc - Ad)(ex)^{1+m} \text{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{dx^n}{c}\right)}{cd^3 e(1+m)}$$

```
[Out] -b*(-A*b*d-2*B*a*d+B*b*c)*x^(1+n)*(e*x)^m/d^2/(1+m+n)+b^2*B*x^(1+2*n)*(e*x)^m/d/(1+m+2*n)+(a^2*B*d^2+b^2*c*(-A*d+B*c)-2*a*b*d*(-A*d+B*c))*(e*x)^(1+m)/d^3/e/(1+m)-(-a*d+b*c)^2*(-A*d+B*c)*(e*x)^(1+m)*hypergeom([1, (1+m)/n], [(1+m+n)/n], -d*x^n/c)/c/d^3/e/(1+m)
```

Rubi [A] (verified)

Time = 0.16 (sec) , antiderivative size = 187, normalized size of antiderivative = 1.00, number of steps used = 7, number of rules used = 4, $\frac{\text{number of rules}}{\text{integrand size}} = 0.129$, Rules used

= {584, 20, 30, 371}

$$\int \frac{(ex)^m (a + bx^n)^2 (A + Bx^n)}{c + dx^n} dx$$

$$= \frac{(ex)^{m+1} (a^2 B d^2 - 2abd(Bc - Ad) + b^2 c(Bc - Ad))}{d^3 e(m+1)}$$

$$- \frac{(ex)^{m+1} (bc - ad)^2 (Bc - Ad) \operatorname{Hypergeometric2F1}\left(1, \frac{m+1}{n}, \frac{m+n+1}{n}, -\frac{dx^n}{c}\right)}{cd^3 e(m+1)}$$

$$- \frac{bx^{n+1} (ex)^m (-2aBd - Abd + bBc)}{d^2 (m+n+1)} + \frac{b^2 Bx^{2n+1} (ex)^m}{d(m+2n+1)}$$

[In] Int[((e*x)^m*(a + b*x^n)^2*(A + B*x^n))/(c + d*x^n),x]

[Out] -((b*(b*B*c - A*b*d - 2*a*B*d)*x^(1 + n)*(e*x)^m)/(d^2*(1 + m + n))) + (b^2*B*x^(1 + 2*n)*(e*x)^m)/(d*(1 + m + 2*n)) + ((a^2*B*d^2 + b^2*c*(B*c - A*d) - 2*a*b*d*(B*c - A*d))*(e*x)^(1 + m))/(d^3*e*(1 + m)) - ((b*c - a*d)^2*(B*c - A*d)*(e*x)^(1 + m)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -(d*x^n/c)])/(c*d^3*e*(1 + m))

Rule 20

Int[(u_.)*((a_.)*(v_))^(m_.)*((b_.)*(v_))^(n_.), x_Symbol] := Dist[b^IntPart[n]*((b*v)^FracPart[n]/(a^IntPart[n]*(a*v)^FracPart[n])), Int[u*(a*v)^(m+n), x], x] /; FreeQ[{a, b, m, n}, x] && !IntegerQ[m] && !IntegerQ[n] && !IntegerQ[m+n]

Rule 30

Int[(x_)^(m_.), x_Symbol] := Simp[x^(m+1)/(m+1), x] /; FreeQ[m, x] && NeQ[m, -1]

Rule 371

Int[((c_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_), x_Symbol] := Simp[a^p*((c*x)^(m+1)/(c*(m+1)))*Hypergeometric2F1[-p, (m+1)/n, (m+1)/n+1, (-b)*(x^n/a)], x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILtQ[p, 0] || GtQ[a, 0])

Rule 584

Int[((g_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_.)*((c_) + (d_.)*(x_)^(n_))^(q_.)*((e_) + (f_.)*(x_)^(n_))^(r_.), x_Symbol] := Int[ExpandIntegrand[(g*x)^m*(a + b*x^n)^p*(c + d*x^n)^q*(e + f*x^n)^r, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n}, x] && IGtQ[p, -2] && IGtQ[q, 0] && IGtQ[r, 0]

Rubi steps

$$\begin{aligned}
 \text{integral} &= \int \left(\frac{(a^2 B d^2 + b^2 c (B c - A d) - 2 a b d (B c - A d)) (e x)^m}{d^3} \right. \\
 &\quad \left. + \frac{b(-b B c + A b d + 2 a B d) x^n (e x)^m}{d^2} + \frac{b^2 B x^{2 n} (e x)^m}{d} \right. \\
 &\quad \left. + \frac{(-b c + a d)^2 (-B c + A d) (e x)^m}{d^3 (c + d x^n)} \right) d x \\
 &= \frac{(a^2 B d^2 + b^2 c (B c - A d) - 2 a b d (B c - A d)) (e x)^{1+m}}{d^3 e (1+m)} + \frac{(b^2 B) \int x^{2 n} (e x)^m d x}{d} \\
 &\quad - \frac{((b c - a d)^2 (B c - A d)) \int \frac{(e x)^m}{c + d x^n} d x}{d^3} - \frac{(b(b B c - A b d - 2 a B d)) \int x^n (e x)^m d x}{d^2} \\
 &= \frac{(a^2 B d^2 + b^2 c (B c - A d) - 2 a b d (B c - A d)) (e x)^{1+m}}{d^3 e (1+m)} \\
 &\quad - \frac{(b c - a d)^2 (B c - A d) (e x)^{1+m} {}_2F_1\left(1, \frac{1+m}{n}; \frac{1+m+n}{n}; -\frac{d x^n}{c}\right)}{c d^3 e (1+m)} \\
 &\quad + \frac{(b^2 B x^{-m} (e x)^m) \int x^{m+2 n} d x}{d} - \frac{(b(b B c - A b d - 2 a B d) x^{-m} (e x)^m) \int x^{m+n} d x}{d^2} \\
 &= -\frac{b(b B c - A b d - 2 a B d) x^{1+n} (e x)^m}{d^2 (1+m+n)} + \frac{b^2 B x^{1+2 n} (e x)^m}{d (1+m+2 n)} \\
 &\quad + \frac{(a^2 B d^2 + b^2 c (B c - A d) - 2 a b d (B c - A d)) (e x)^{1+m}}{d^3 e (1+m)} \\
 &\quad - \frac{(b c - a d)^2 (B c - A d) (e x)^{1+m} {}_2F_1\left(1, \frac{1+m}{n}; \frac{1+m+n}{n}; -\frac{d x^n}{c}\right)}{c d^3 e (1+m)}
 \end{aligned}$$

Mathematica [A] (verified)

Time = 0.45 (sec) , antiderivative size = 154, normalized size of antiderivative = 0.82

$$\begin{aligned}
 &\int \frac{(e x)^m (a + b x^n)^2 (A + B x^n)}{c + d x^n} d x \\
 &= \frac{x(e x)^m \left(\frac{a^2 B d^2 + b^2 c (B c - A d) + 2 a b d (-B c + A d)}{1+m} + \frac{b d (-b B c + A b d + 2 a B d) x^n}{1+m+n} + \frac{b^2 B d^2 x^{2 n}}{1+m+2 n} - \frac{(b c - a d)^2 (B c - A d) \text{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{d x^n}{c}\right)}{c(1+m)} \right)}{d^3}
 \end{aligned}$$

[In] Integrate[((e*x)^m*(a + b*x^n)^2*(A + B*x^n))/(c + d*x^n),x]

[Out] (x*(e*x)^m*((a^2*B*d^2 + b^2*c*(B*c - A*d) + 2*a*b*d*(-B*c) + A*d))/(1 + m) + (b*d*(-(b*B*c) + A*b*d + 2*a*B*d)*x^n)/(1 + m + n) + (b^2*B*d^2*x^(2*n))/(1 + m + 2*n) - ((b*c - a*d)^2*(B*c - A*d)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -(d*x^n)/c])/(c*(1 + m)))/d^3

Maple [F]

$$\int \frac{(ex)^m (a + bx^n)^2 (A + Bx^n)}{c + dx^n} dx$$

[In] int((e*x)^m*(a+b*x^n)^2*(A+B*x^n)/(c+d*x^n),x)

[Out] int((e*x)^m*(a+b*x^n)^2*(A+B*x^n)/(c+d*x^n),x)

Fricas [F]

$$\int \frac{(ex)^m (a + bx^n)^2 (A + Bx^n)}{c + dx^n} dx = \int \frac{(Bx^n + A)(bx^n + a)^2 (ex)^m}{dx^n + c} dx$$

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

[Out] integral((B*b^2*x^(3*n) + A*a^2 + (2*B*a*b + A*b^2)*x^(2*n) + (B*a^2 + 2*A*a*b)*x^n)*(e*x)^m/(d*x^n + c), x)

Sympy [C] (verification not implemented)

Result contains complex when optimal does not.

Time = 9.44 (sec) , antiderivative size = 1402, normalized size of antiderivative = 7.50

$$\int \frac{(ex)^m (a + bx^n)^2 (A + Bx^n)}{c + dx^n} dx = \text{Too large to display}$$

[In] integrate((e*x)**m*(a+b*x**n)**2*(A+B*x**n)/(c+d*x**n),x)

[Out] A*a**2*c**(m/n + 1/n)*c**(-m/n - 1 - 1/n)*e**m*x**(m + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1/n)*gamma(m/n + 1/n)/(n**2*gamma(m/n + 1 + 1/n)) + A*a**2*c**(m/n + 1/n)*c**(-m/n - 1 - 1/n)*e**m*x**(m + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1/n)*gamma(m/n + 1/n)/(n**2*gamma(m/n + 1 + 1/n)) + 2*A*a*b*c**(-m/n - 2 - 1/n)*c**(m/n + 1 + 1/n)*e**m*x**(m + n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1 + 1/n)*gamma(m/n + 1 + 1/n)/(n**2*gamma(m/n + 2 + 1/n)) + 2*A*a*b*c**(-m/n - 2 - 1/n)*c**(m/n + 1 + 1/n)*e**m*x**(m + n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1 + 1/n)*gamma(m/n + 1 + 1/n)/(n*gamma(m/n + 2 + 1/n)) + 2*A*a*b*c**(-m/n - 2 - 1/n)*c**(m/n + 1 + 1/n)*e**m*x**(m + n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1 + 1/n)*gamma(m/n + 1 + 1/n)/(n**2*gamma(m/n + 2 + 1/n)) + A*b**2*c**(-m/n - 3 - 1/n)*c**(m/n + 2 + 1/n)*e**m*x**(m + 2*n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 2 + 1/n)*gamma(m/n + 2 + 1/n)/(n**2*gamma(m/n + 3 + 1/n)) + 2*A*b**2*c**(-m/n - 3 - 1/n)*c**(m/n + 2 + 1/n)*e**m*x**(m + 2*n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 2 + 1/n)*gamma(

$$\begin{aligned} & m/n + 2 + 1/n)/(n*\gamma(m/n + 3 + 1/n)) + A*b**2*c**(-m/n - 3 - 1/n)*c**(m/ \\ & n + 2 + 1/n)*e**m*x**(m + 2*n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/ \\ & n + 2 + 1/n)*\gamma(m/n + 2 + 1/n)/(n**2*\gamma(m/n + 3 + 1/n)) + B*a**2*c**(- \\ & -m/n - 2 - 1/n)*c**(m/n + 1 + 1/n)*e**m*x**(m + n + 1)*lerchphi(d*x**n*ex \\ & p_polar(I*pi)/c, 1, m/n + 1 + 1/n)*\gamma(m/n + 1 + 1/n)/(n**2*\gamma(m/n + 2 \\ & + 1/n)) + B*a**2*c**(-m/n - 2 - 1/n)*c**(m/n + 1 + 1/n)*e**m*x**(m + n + 1 \\ &)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1 + 1/n)*\gamma(m/n + 1 + 1/n) \\ & /(\gamma(m/n + 2 + 1/n)) + B*a**2*c**(-m/n - 2 - 1/n)*c**(m/n + 1 + 1/n)*e \\ & **m*x**(m + n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1 + 1/n)*\gamma \\ & (m/n + 1 + 1/n)/(n**2*\gamma(m/n + 2 + 1/n)) + 2*B*a*b*c**(-m/n - 3 - 1/n) \\ & *c**(m/n + 2 + 1/n)*e**m*x**(m + 2*n + 1)*lerchphi(d*x**n*exp_polar(I*pi) \\ & /c, 1, m/n + 2 + 1/n)*\gamma(m/n + 2 + 1/n)/(n**2*\gamma(m/n + 3 + 1/n)) + 4* \\ & B*a*b*c**(-m/n - 3 - 1/n)*c**(m/n + 2 + 1/n)*e**m*x**(m + 2*n + 1)*lerchphi \\ & (d*x**n*exp_polar(I*pi)/c, 1, m/n + 2 + 1/n)*\gamma(m/n + 2 + 1/n)/(\gamma(m/n + 3 \\ & + 1/n)) + 2*B*a*b*c**(-m/n - 3 - 1/n)*c**(m/n + 2 + 1/n)*e**m*x**(m \\ & + 2*n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 2 + 1/n)*\gamma(m/n \\ & + 2 + 1/n)/(n**2*\gamma(m/n + 3 + 1/n)) + B*b**2*c**(-m/n - 4 - 1/n)*c**(m/n \\ & + 3 + 1/n)*e**m*x**(m + 3*n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m \\ & /n + 3 + 1/n)*\gamma(m/n + 3 + 1/n)/(n**2*\gamma(m/n + 4 + 1/n)) + 3*B*b**2*c \\ & **(-m/n - 4 - 1/n)*c**(m/n + 3 + 1/n)*e**m*x**(m + 3*n + 1)*lerchphi(d*x**n \\ & *exp_polar(I*pi)/c, 1, m/n + 3 + 1/n)*\gamma(m/n + 3 + 1/n)/(\gamma(m/n + 4 \\ & + 1/n)) + B*b**2*c**(-m/n - 4 - 1/n)*c**(m/n + 3 + 1/n)*e**m*x**(m + 3*n + \\ & 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 3 + 1/n)*\gamma(m/n + 3 + 1/ \\ & n)/(n**2*\gamma(m/n + 4 + 1/n)) \end{aligned}$$

Maxima [F]

$$\int \frac{(ex)^m (a + bx^n)^2 (A + Bx^n)}{c + dx^n} dx = \int \frac{(Bx^n + A)(bx^n + a)^2 (ex)^m}{dx^n + c} dx$$

[In] integrate((e*x)^m*(a+b*x^n)^2*(A+B*x^n)/(c+d*x^n),x, algorithm="maxima")

[Out] ((b^2*c^2*d*e^m - 2*a*b*c*d^2*e^m + a^2*d^3*e^m)*A - (b^2*c^3*e^m - 2*a*b*c^2*d*e^m + a^2*c*d^2*e^m)*B)*integrate(x^m/(d^4*x^n + c*d^3), x) + ((m^2 + m*(n + 2) + n + 1)*B*b^2*d^2*e^m*x*e^(m*log(x) + 2*n*log(x)) - ((m^2 + m*(3*n + 2) + 2*n^2 + 3*n + 1)*b^2*c*d*e^m - 2*(m^2 + m*(3*n + 2) + 2*n^2 + 3*n + 1)*a*b*d^2*e^m)*A - ((m^2 + m*(3*n + 2) + 2*n^2 + 3*n + 1)*b^2*c^2*e^m - 2*(m^2 + m*(3*n + 2) + 2*n^2 + 3*n + 1)*a*b*c*d*e^m + (m^2 + m*(3*n + 2) + 2*n^2 + 3*n + 1)*a^2*d^2*e^m)*B)*x*x^m + ((m^2 + 2*m*(n + 1) + 2*n + 1)*A*b^2*d^2*e^m - ((m^2 + 2*m*(n + 1) + 2*n + 1)*b^2*c*d*e^m - 2*(m^2 + 2*m*(n + 1) + 2*n + 1)*a*b*d^2*e^m)*B)*x*x^m)/(m^3 + 3*m^2*(n + 1) + (2*n^2 + 6*n + 3)*m + 2*n^2 + 3*n + 1)*d^3)

Giac [F]

$$\int \frac{(ex)^m (a + bx^n)^2 (A + Bx^n)}{c + dx^n} dx = \int \frac{(Bx^n + A)(bx^n + a)^2 (ex)^m}{dx^n + c} dx$$

[In] integrate((e*x)^m*(a+b*x^n)^2*(A+B*x^n)/(c+d*x^n),x, algorithm="giac")

[Out] integrate((B*x^n + A)*(b*x^n + a)^2*(e*x)^m/(d*x^n + c), x)

Mupad [F(-1)]

Timed out.

$$\int \frac{(ex)^m (a + bx^n)^2 (A + Bx^n)}{c + dx^n} dx = \int \frac{(ex)^m (A + Bx^n) (a + bx^n)^2}{c + dx^n} dx$$

[In] int(((e*x)^m*(A + B*x^n)*(a + b*x^n)^2)/(c + d*x^n),x)

[Out] int(((e*x)^m*(A + B*x^n)*(a + b*x^n)^2)/(c + d*x^n), x)

$$3.24 \quad \int \frac{(ex)^m (a+bx^n)(A+Bx^n)}{c+dx^n} dx$$

Optimal result	1013
Rubi [A] (verified)	1013
Mathematica [A] (verified)	1015
Maple [F]	1015
Fricas [F]	1015
Sympy [C] (verification not implemented)	1015
Maxima [F]	1016
Giac [F]	1017
Mupad [F(-1)]	1017

Optimal result

Integrand size = 29, antiderivative size = 122

$$\begin{aligned} & \int \frac{(ex)^m (a + bx^n) (A + Bx^n)}{c + dx^n} dx \\ &= \frac{bBx^{1+n}(ex)^m}{d(1+m+n)} - \frac{(bBc - Abd - aBd)(ex)^{1+m}}{d^2e(1+m)} \\ & \quad + \frac{(bc - ad)(Bc - Ad)(ex)^{1+m} \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{dx^n}{c}\right)}{cd^2e(1+m)} \end{aligned}$$

[Out] b*B*x^(1+n)*(e*x)^m/d/(1+m+n)-(-A*b*d-B*a*d+B*b*c)*(e*x)^(1+m)/d^2/e/(1+m)+(-a*d+b*c)*(-A*d+B*c)*(e*x)^(1+m)*hypergeom([1, (1+m)/n], [(1+m+n)/n], -d*x^n/c)/c/d^2/e/(1+m)

Rubi [A] (verified)

Time = 0.08 (sec) , antiderivative size = 122, normalized size of antiderivative = 1.00, number of steps used = 5, number of rules used = 4, $\frac{\text{number of rules}}{\text{integrand size}} = 0.138$, Rules used = {584, 20, 30, 371}

$$\begin{aligned} & \int \frac{(ex)^m (a + bx^n) (A + Bx^n)}{c + dx^n} dx \\ &= \frac{(ex)^{m+1}(bc - ad)(Bc - Ad) \operatorname{Hypergeometric2F1}\left(1, \frac{m+1}{n}, \frac{m+n+1}{n}, -\frac{dx^n}{c}\right)}{cd^2e(m+1)} \\ & \quad - \frac{(ex)^{m+1}(-aBd - Abd + bBc)}{d^2e(m+1)} + \frac{bBx^{n+1}(ex)^m}{d(m+n+1)} \end{aligned}$$

[In] Int[((e*x)^m*(a + b*x^n)*(A + B*x^n))/(c + d*x^n),x]

[Out] $(b*B*x^{(1+n)}*(e*x)^m)/(d*(1+m+n)) - ((b*B*c - A*b*d - a*B*d)*(e*x)^{(1+m)})/(d^2*e*(1+m)) + ((b*c - a*d)*(B*c - A*d)*(e*x)^{(1+m)}*Hypergeometric2F1[1, (1+m)/n, (1+m+n)/n, -((d*x^n)/c)]/(c*d^2*e*(1+m))$

Rule 20

Int[(u_.)*((a_.)*(v_.))^(m_.)*((b_.)*(v_.))^(n_.), x_Symbol] := Dist[b^IntPart[n]*((b*v)^FracPart[n]/(a^IntPart[n]*(a*v)^FracPart[n])), Int[u*(a*v)^(m+n), x], x] /; FreeQ[{a, b, m, n}, x] && !IntegerQ[m] && !IntegerQ[n] && !IntegerQ[m+n]

Rule 30

Int[(x_)^(m_.), x_Symbol] := Simp[x^(m+1)/(m+1), x] /; FreeQ[m, x] && NeQ[m, -1]

Rule 371

Int[((c_.)*(x_.))^(m_.)*((a_) + (b_.)*(x_)^(n_.))^(p_.), x_Symbol] := Simp[a^p*((c*x)^(m+1)/(c*(m+1)))*Hypergeometric2F1[-p, (m+1)/n, (m+1)/n+1, (-b)*(x^n/a)], x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILtQ[p, 0] || GtQ[a, 0])

Rule 584

Int[((g_.)*(x_.))^(m_.)*((a_) + (b_.)*(x_)^(n_.))^(p_.)*((c_) + (d_.)*(x_)^(n_.))^(q_.)*((e_) + (f_.)*(x_)^(n_.))^(r_.), x_Symbol] := Int[ExpandIntegrand[(g*x)^m*(a + b*x^n)^p*(c + d*x^n)^q*(e + f*x^n)^r, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n}, x] && IGtQ[p, -2] && IGtQ[q, 0] && IGtQ[r, 0]

Rubi steps

$$\begin{aligned}
 & \text{integral} \\
 &= \int \left(\frac{(-bBc + Abd + aBd)(ex)^m}{d^2} + \frac{bBx^n(ex)^m}{d} + \frac{(-bc + ad)(-Bc + Ad)(ex)^m}{d^2(c + dx^n)} \right) dx \\
 &= -\frac{(bBc - Abd - aBd)(ex)^{1+m}}{d^2e(1+m)} + \frac{(bB) \int x^n(ex)^m dx}{d} + \frac{((bc - ad)(Bc - Ad)) \int \frac{(ex)^m}{c+dx^n} dx}{d^2} \\
 &= -\frac{(bBc - Abd - aBd)(ex)^{1+m}}{d^2e(1+m)} \\
 &\quad + \frac{(bc - ad)(Bc - Ad)(ex)^{1+m} {}_2F_1\left(1, \frac{1+m}{n}; \frac{1+m+n}{n}; -\frac{dx^n}{c}\right)}{cd^2e(1+m)} + \frac{(bBx^{-m}(ex)^m) \int x^{m+n} dx}{d} \\
 &= \frac{bBx^{1+n}(ex)^m}{d(1+m+n)} - \frac{(bBc - Abd - aBd)(ex)^{1+m}}{d^2e(1+m)} \\
 &\quad + \frac{(bc - ad)(Bc - Ad)(ex)^{1+m} {}_2F_1\left(1, \frac{1+m}{n}; \frac{1+m+n}{n}; -\frac{dx^n}{c}\right)}{cd^2e(1+m)}
 \end{aligned}$$

Mathematica [A] (verified)

Time = 0.24 (sec) , antiderivative size = 95, normalized size of antiderivative = 0.78

$$\int \frac{(ex)^m (a + bx^n) (A + Bx^n)}{c + dx^n} dx$$

$$= \frac{x(ex)^m \left(\frac{-bBc + Abd + aBd}{1+m} + \frac{bBdx^n}{1+m+n} + \frac{(bc-ad)(Bc-Ad) \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{dx^n}{c}\right)}{c(1+m)} \right)}{d^2}$$

[In] Integrate[((e*x)^m*(a + b*x^n)*(A + B*x^n))/(c + d*x^n),x]

[Out] (x*(e*x)^m*((-(b*B*c) + A*b*d + a*B*d)/(1 + m) + (b*B*d*x^n)/(1 + m + n) + ((b*c - a*d)*(B*c - A*d)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -(d*x^n)/c]))/(c*(1 + m)))/d^2

Maple [F]

$$\int \frac{(ex)^m (a + bx^n) (A + Bx^n)}{c + dx^n} dx$$

[In] int((e*x)^m*(a+b*x^n)*(A+B*x^n)/(c+d*x^n),x)

[Out] int((e*x)^m*(a+b*x^n)*(A+B*x^n)/(c+d*x^n),x)

Fricas [F]

$$\int \frac{(ex)^m (a + bx^n) (A + Bx^n)}{c + dx^n} dx = \int \frac{(Bx^n + A)(bx^n + a)(ex)^m}{dx^n + c} dx$$

[In] integrate((e*x)^m*(a+b*x^n)*(A+B*x^n)/(c+d*x^n),x, algorithm="fricas")

[Out] integral((B*b*x^(2*n) + A*a + (B*a + A*b)*x^n)*(e*x)^m/(d*x^n + c), x)

Sympy [C] (verification not implemented)

Result contains complex when optimal does not.

Time = 4.57 (sec) , antiderivative size = 872, normalized size of antiderivative = 7.15

$$\int \frac{(ex)^m (a + bx^n) (A + Bx^n)}{c + dx^n} dx = \text{Too large to display}$$

[In] integrate((e*x)**m*(a+b*x**n)*(A+B*x**n)/(c+d*x**n),x)

```
[Out] A*a*c**(m/n + 1/n)*c**(-m/n - 1 - 1/n)*e**m*x**(m + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1/n)*gamma(m/n + 1/n)/(n**2*gamma(m/n + 1 + 1/n)) + A*a*c**(m/n + 1/n)*c**(-m/n - 1 - 1/n)*e**m*x**(m + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1/n)*gamma(m/n + 1/n)/(n**2*gamma(m/n + 1 + 1/n)) + A*b*c**(-m/n - 2 - 1/n)*c**(m/n + 1 + 1/n)*e**m*x**(m + n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1 + 1/n)*gamma(m/n + 1 + 1/n)/(n**2*gamma(m/n + 2 + 1/n)) + A*b*c**(-m/n - 2 - 1/n)*c**(m/n + 1 + 1/n)*e**m*x**(m + n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1 + 1/n)*gamma(m/n + 1 + 1/n)/(n*gamma(m/n + 2 + 1/n)) + A*b*c**(-m/n - 2 - 1/n)*c**(m/n + 1 + 1/n)*e**m*x**(m + n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1 + 1/n)*gamma(m/n + 1 + 1/n)/(n**2*gamma(m/n + 2 + 1/n)) + B*a*c**(-m/n - 2 - 1/n)*c**(m/n + 1 + 1/n)*e**m*x**(m + n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1 + 1/n)*gamma(m/n + 1 + 1/n)/(n**2*gamma(m/n + 2 + 1/n)) + B*a*c**(-m/n - 2 - 1/n)*c**(m/n + 1 + 1/n)*e**m*x**(m + n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1 + 1/n)*gamma(m/n + 1 + 1/n)/(n*gamma(m/n + 2 + 1/n)) + B*a*c**(-m/n - 2 - 1/n)*c**(m/n + 1 + 1/n)*e**m*x**(m + n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1 + 1/n)*gamma(m/n + 1 + 1/n)/(n**2*gamma(m/n + 2 + 1/n)) + B*b*c**(-m/n - 3 - 1/n)*c**(m/n + 2 + 1/n)*e**m*x**(m + 2*n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 2 + 1/n)*gamma(m/n + 2 + 1/n)/(n**2*gamma(m/n + 3 + 1/n)) + 2*B*b*c**(-m/n - 3 - 1/n)*c**(m/n + 2 + 1/n)*e**m*x**(m + 2*n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 2 + 1/n)*gamma(m/n + 2 + 1/n)/(n*gamma(m/n + 3 + 1/n)) + B*b*c**(-m/n - 3 - 1/n)*c**(m/n + 2 + 1/n)*e**m*x**(m + 2*n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 2 + 1/n)*gamma(m/n + 2 + 1/n)/(n**2*gamma(m/n + 3 + 1/n))
```

Maxima [F]

$$\int \frac{(ex)^m (a + bx^n) (A + Bx^n)}{c + dx^n} dx = \int \frac{(Bx^n + A)(bx^n + a)(ex)^m}{dx^n + c} dx$$

```
[In] integrate((e*x)^m*(a+b*x^n)*(A+B*x^n)/(c+d*x^n),x, algorithm="maxima")
```

```
[Out] -((b*c*d*e^m - a*d^2*e^m)*A - (b*c^2*e^m - a*c*d*e^m)*B)*integrate(x^m/(d^3*x^n + c*d^2), x) + (B*b*d*e^m*(m + 1)*x*e^(m*log(x) + n*log(x)) + (A*b*d*e^m*(m + n + 1) - (b*c*e^m*(m + n + 1) - a*d*e^m*(m + n + 1))*B)*x*x^m)/((m^2 + m*(n + 2) + n + 1)*d^2)
```


Giac [F]

$$\int \frac{(ex)^m (a + bx^n) (A + Bx^n)}{c + dx^n} dx = \int \frac{(Bx^n + A)(bx^n + a)(ex)^m}{dx^n + c} dx$$

[In] integrate((e*x)^m*(a+b*x^n)*(A+B*x^n)/(c+d*x^n),x, algorithm="giac")

[Out] integrate((B*x^n + A)*(b*x^n + a)*(e*x)^m/(d*x^n + c), x)

Mupad [F(-1)]

Timed out.

$$\int \frac{(ex)^m (a + bx^n) (A + Bx^n)}{c + dx^n} dx = \int \frac{(ex)^m (A + Bx^n) (a + bx^n)}{c + dx^n} dx$$

[In] int(((e*x)^m*(A + B*x^n)*(a + b*x^n))/(c + d*x^n),x)

[Out] int(((e*x)^m*(A + B*x^n)*(a + b*x^n))/(c + d*x^n), x)

3.25 $\int \frac{(ex)^m(A+Bx^n)}{c+dx^n} dx$

Optimal result	1018
Rubi [A] (verified)	1018
Mathematica [A] (verified)	1019
Maple [F]	1019
Fricas [F]	1020
Sympy [C] (verification not implemented)	1020
Maxima [F]	1021
Giac [F]	1021
Mupad [F(-1)]	1021

Optimal result

Integrand size = 22, antiderivative size = 78

$$\int \frac{(ex)^m(A+Bx^n)}{c+dx^n} dx = \frac{B(ex)^{1+m}}{de(1+m)} - \frac{(Bc-Ad)(ex)^{1+m} \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{dx^n}{c}\right)}{cde(1+m)}$$

[Out] B*(e*x)^(1+m)/d/e/(1+m)-(-A*d+B*c)*(e*x)^(1+m)*hypergeom([1, (1+m)/n], [(1+m+n)/n], -d*x^n/c)/c/d/e/(1+m)

Rubi [A] (verified)

Time = 0.03 (sec) , antiderivative size = 78, normalized size of antiderivative = 1.00, number of steps used = 2, number of rules used = 2, $\frac{\text{number of rules}}{\text{integrand size}} = 0.091$, Rules used = {470, 371}

$$\int \frac{(ex)^m(A+Bx^n)}{c+dx^n} dx = \frac{B(ex)^{m+1}}{de(m+1)} - \frac{(ex)^{m+1}(Bc-Ad) \operatorname{Hypergeometric2F1}\left(1, \frac{m+1}{n}, \frac{m+n+1}{n}, -\frac{dx^n}{c}\right)}{cde(m+1)}$$

[In] Int[((e*x)^m*(A + B*x^n))/(c + d*x^n), x]

[Out] (B*(e*x)^(1 + m))/(d*e*(1 + m)) - ((B*c - A*d)*(e*x)^(1 + m)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -((d*x^n)/c)]/(c*d*e*(1 + m))

Rule 371

Int[((c_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_), x_Symbol] := Simp[a^p*((c*x)^(m + 1)/(c*(m + 1)))*Hypergeometric2F1[-p, (m + 1)/n, (m + 1)/n + 1

, (-b)*(x^n/a)], x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILtQ[p, 0] || GtQ[a, 0])

Rule 470

Int[((e_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_)), x_Symbol] :> Simp[d*(e*x)^(m + 1)*((a + b*x^n)^(p + 1)/(b*e*(m + n*(p + 1) + 1))), x] - Dist[(a*d*(m + 1) - b*c*(m + n*(p + 1) + 1))/(b*(m + n*(p + 1) + 1)), Int[(e*x)^(m*(a + b*x^n)^p, x], x] /; FreeQ[{a, b, c, d, e, m, n, p}, x] && NeQ[b*c - a*d, 0] && NeQ[m + n*(p + 1) + 1, 0]

Rubi steps

$$\begin{aligned} \text{integral} &= \frac{B(ex)^{1+m}}{de(1+m)} - \frac{(Bc(1+m) - Ad(1+m)) \int \frac{(ex)^m}{c+dx^n} dx}{d(1+m)} \\ &= \frac{B(ex)^{1+m}}{de(1+m)} - \frac{(Bc - Ad)(ex)^{1+m} {}_2F_1\left(1, \frac{1+m}{n}; \frac{1+m+n}{n}; -\frac{dx^n}{c}\right)}{cde(1+m)} \end{aligned}$$

Mathematica [A] (verified)

Time = 0.13 (sec) , antiderivative size = 57, normalized size of antiderivative = 0.73

$$\begin{aligned} &\int \frac{(ex)^m (A + Bx^n)}{c + dx^n} dx \\ &= \frac{x(ex)^m (Bc + (-Bc + Ad) \text{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{dx^n}{c}\right))}{cd(1+m)} \end{aligned}$$

[In] Integrate[((e*x)^m*(A + B*x^n))/(c + d*x^n), x]

[Out] (x*(e*x)^m*(B*c + (-B*c) + A*d)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -((d*x^n)/c)])/(c*d*(1 + m))

Maple [F]

$$\int \frac{(ex)^m (A + Bx^n)}{c + dx^n} dx$$

[In] int((e*x)^m*(A+B*x^n)/(c+d*x^n), x)

[Out] int((e*x)^m*(A+B*x^n)/(c+d*x^n), x)

Fricas [F]

$$\int \frac{(ex)^m (A + Bx^n)}{c + dx^n} dx = \int \frac{(Bx^n + A)(ex)^m}{dx^n + c} dx$$

[In] integrate((e*x)^m*(A+B*x^n)/(c+d*x^n),x, algorithm="fricas")

[Out] integral((B*x^n + A)*(e*x)^m/(d*x^n + c), x)

Sympy [C] (verification not implemented)

Result contains complex when optimal does not.

Time = 1.79 (sec) , antiderivative size = 377, normalized size of antiderivative = 4.83

$$\begin{aligned} & \int \frac{(ex)^m (A + Bx^n)}{c + dx^n} dx \\ &= \frac{Ac^{\frac{m}{n} + \frac{1}{n}} c^{-\frac{m}{n} - 1 - \frac{1}{n}} e^m m x^{m+1} \Phi\left(\frac{dx^n e^{i\pi}}{c}, 1, \frac{m}{n} + \frac{1}{n}\right) \Gamma\left(\frac{m}{n} + \frac{1}{n}\right)}{n^2 \Gamma\left(\frac{m}{n} + 1 + \frac{1}{n}\right)} \\ &+ \frac{Ac^{\frac{m}{n} + \frac{1}{n}} c^{-\frac{m}{n} - 1 - \frac{1}{n}} e^m x^{m+1} \Phi\left(\frac{dx^n e^{i\pi}}{c}, 1, \frac{m}{n} + \frac{1}{n}\right) \Gamma\left(\frac{m}{n} + \frac{1}{n}\right)}{n^2 \Gamma\left(\frac{m}{n} + 1 + \frac{1}{n}\right)} \\ &+ \frac{Bc^{-\frac{m}{n} - 2 - \frac{1}{n}} c^{\frac{m}{n} + 1 + \frac{1}{n}} e^m m x^{m+n+1} \Phi\left(\frac{dx^n e^{i\pi}}{c}, 1, \frac{m}{n} + 1 + \frac{1}{n}\right) \Gamma\left(\frac{m}{n} + 1 + \frac{1}{n}\right)}{n^2 \Gamma\left(\frac{m}{n} + 2 + \frac{1}{n}\right)} \\ &+ \frac{Bc^{-\frac{m}{n} - 2 - \frac{1}{n}} c^{\frac{m}{n} + 1 + \frac{1}{n}} e^m x^{m+n+1} \Phi\left(\frac{dx^n e^{i\pi}}{c}, 1, \frac{m}{n} + 1 + \frac{1}{n}\right) \Gamma\left(\frac{m}{n} + 1 + \frac{1}{n}\right)}{n \Gamma\left(\frac{m}{n} + 2 + \frac{1}{n}\right)} \\ &+ \frac{Bc^{-\frac{m}{n} - 2 - \frac{1}{n}} c^{\frac{m}{n} + 1 + \frac{1}{n}} e^m x^{m+n+1} \Phi\left(\frac{dx^n e^{i\pi}}{c}, 1, \frac{m}{n} + 1 + \frac{1}{n}\right) \Gamma\left(\frac{m}{n} + 1 + \frac{1}{n}\right)}{n^2 \Gamma\left(\frac{m}{n} + 2 + \frac{1}{n}\right)} \end{aligned}$$

[In] integrate((e*x)**m*(A+B*x**n)/(c+d*x**n),x)

[Out] A*c**(m/n + 1/n)*c**(-m/n - 1 - 1/n)*e**m*x**(m + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1/n)*gamma(m/n + 1/n)/(n**2*gamma(m/n + 1 + 1/n)) + A*c**(m/n + 1/n)*c**(-m/n - 1 - 1/n)*e**m*x**(m + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1/n)*gamma(m/n + 1/n)/(n**2*gamma(m/n + 1 + 1/n)) + B*c**(-m/n - 2 - 1/n)*c**(m/n + 1 + 1/n)*e**m*x**(m + n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1 + 1/n)*gamma(m/n + 1 + 1/n)/(n**2*gamma(m/n + 2 + 1/n)) + B*c**(-m/n - 2 - 1/n)*c**(m/n + 1 + 1/n)*e**m*x**(m + n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1 + 1/n)*gamma(m/n + 1 + 1/n)/(n*gamma(m/n + 2 + 1/n)) + B*c**(-m/n - 2 - 1/n)*c**(m/n + 1 + 1/n)*e**m*x**(m + n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1 + 1/n)*gamma(m/n + 1 + 1/n)/(n**2*gamma(m/n + 2 + 1/n))

Maxima [F]

$$\int \frac{(ex)^m (A + Bx^n)}{c + dx^n} dx = \int \frac{(Bx^n + A)(ex)^m}{dx^n + c} dx$$

[In] integrate((e*x)^m*(A+B*x^n)/(c+d*x^n),x, algorithm="maxima")

[Out] B*e^m*x*x^m/(d*(m + 1)) - (B*c*e^m - A*d*e^m)*integrate(x^m/(d^2*x^n + c*d), x)

Giac [F]

$$\int \frac{(ex)^m (A + Bx^n)}{c + dx^n} dx = \int \frac{(Bx^n + A)(ex)^m}{dx^n + c} dx$$

[In] integrate((e*x)^m*(A+B*x^n)/(c+d*x^n),x, algorithm="giac")

[Out] integrate((B*x^n + A)*(e*x)^m/(d*x^n + c), x)

Mupad [F(-1)]

Timed out.

$$\int \frac{(ex)^m (A + Bx^n)}{c + dx^n} dx = \int \frac{(ex)^m (A + Bx^n)}{c + dx^n} dx$$

[In] int(((e*x)^m*(A + B*x^n))/(c + d*x^n),x)

[Out] int(((e*x)^m*(A + B*x^n))/(c + d*x^n), x)

3.26 $\int \frac{(ex)^m(A+Bx^n)}{(a+bx^n)(c+dx^n)} dx$

Optimal result	1022
Rubi [A] (verified)	1022
Mathematica [A] (verified)	1023
Maple [F]	1024
Fricas [F]	1024
Sympy [F(-2)]	1024
Maxima [F]	1024
Giac [F]	1025
Mupad [F(-1)]	1025

Optimal result

Integrand size = 31, antiderivative size = 127

$$\int \frac{(ex)^m(A+Bx^n)}{(a+bx^n)(c+dx^n)} dx = \frac{(Ab-aB)(ex)^{1+m} \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{bx^n}{a}\right)}{a(bc-ad)e(1+m)} + \frac{(Bc-Ad)(ex)^{1+m} \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{dx^n}{c}\right)}{c(bc-ad)e(1+m)}$$

[Out] (A*b-B*a)*(e*x)^(1+m)*hypergeom([1, (1+m)/n], [(1+m+n)/n], -b*x^n/a)/a/(-a*d+b*c)/e/(1+m)+(-A*d+B*c)*(e*x)^(1+m)*hypergeom([1, (1+m)/n], [(1+m+n)/n], -d*x^n/c)/c/(-a*d+b*c)/e/(1+m)

Rubi [A] (verified)

Time = 0.09 (sec) , antiderivative size = 127, normalized size of antiderivative = 1.00, number of steps used = 4, number of rules used = 2, $\frac{\text{number of rules}}{\text{integrand size}} = 0.065$, Rules used = {611, 371}

$$\int \frac{(ex)^m(A+Bx^n)}{(a+bx^n)(c+dx^n)} dx = \frac{(ex)^{m+1}(Ab-aB) \operatorname{Hypergeometric2F1}\left(1, \frac{m+1}{n}, \frac{m+n+1}{n}, -\frac{bx^n}{a}\right)}{ae(m+1)(bc-ad)} + \frac{(ex)^{m+1}(Bc-Ad) \operatorname{Hypergeometric2F1}\left(1, \frac{m+1}{n}, \frac{m+n+1}{n}, -\frac{dx^n}{c}\right)}{ce(m+1)(bc-ad)}$$

[In] Int[((e*x)^m*(A+B*x^n))/((a+b*x^n)*(c+d*x^n)),x]

[Out] ((A*b-a*B)*(e*x)^(1+m)*Hypergeometric2F1[1, (1+m)/n, (1+m+n)/n, -(b*x^n/a)])/a*(b*c-a*d)*e*(1+m)+((B*c-A*d)*(e*x)^(1+m)*Hypergeometric2F1[1, (1+m)/n, (1+m+n)/n, -(d*x^n/c)])/c*(b*c-a*d)*e*(1+m)

Rule 371

```
Int[((c_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_), x_Symbol] :> Simp[a^p
*((c*x)^(m + 1)/(c*(m + 1)))*Hypergeometric2F1[-p, (m + 1)/n, (m + 1)/n + 1
, (-b)*(x^n/a)], x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILt
Q[p, 0] || GtQ[a, 0])
```

Rule 611

```
Int[(((g_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_)*((e_) + (f_.)*(x_)^(n
_)))/((c_) + (d_.)*(x_)^(n_)), x_Symbol] :> Int[ExpandIntegrand[(g*x)^m*(a
+ b*x^n)^p*(e + f*x^n)/(c + d*x^n), x], x] /; FreeQ[{a, b, c, d, e, f, g,
m, n, p}, x]
```

Rubi steps

$$\begin{aligned} \text{integral} &= \int \left(\frac{(Ab - aB)(ex)^m}{(bc - ad)(a + bx^n)} + \frac{(Bc - Ad)(ex)^m}{(bc - ad)(c + dx^n)} \right) dx \\ &= \frac{(Ab - aB) \int \frac{(ex)^m}{a + bx^n} dx}{bc - ad} + \frac{(Bc - Ad) \int \frac{(ex)^m}{c + dx^n} dx}{bc - ad} \\ &= \frac{(Ab - aB)(ex)^{1+m} {}_2F_1\left(1, \frac{1+m}{n}; \frac{1+m+n}{n}; -\frac{bx^n}{a}\right)}{a(bc - ad)e(1 + m)} + \frac{(Bc - Ad)(ex)^{1+m} {}_2F_1\left(1, \frac{1+m}{n}; \frac{1+m+n}{n}; -\frac{dx^n}{c}\right)}{c(bc - ad)e(1 + m)} \end{aligned}$$

Mathematica [A] (verified)

Time = 0.26 (sec) , antiderivative size = 102, normalized size of antiderivative = 0.80

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)(c + dx^n)} dx = \frac{x(ex)^m \left((-Abc + aBc) \text{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{bx^n}{a}\right) + a(-Bc + Ad) \text{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{dx^n}{c}\right) \right)}{ac(-bc + ad)(1 + m)}$$

```
[In] Integrate[((e*x)^m*(A + B*x^n))/((a + b*x^n)*(c + d*x^n)),x]
```

```
[Out] (x*(e*x)^m*((-A*b*c) + a*B*c)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/
n, -((b*x^n)/a)] + a*(-(B*c) + A*d)*Hypergeometric2F1[1, (1 + m)/n, (1 + m
+ n)/n, -((d*x^n)/c)]/(a*c*(-(b*c) + a*d)*(1 + m))
```

Maple [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)(c + dx^n)} dx$$

[In] int((e*x)^m*(A+B*x^n)/(a+b*x^n)/(c+d*x^n),x)

[Out] int((e*x)^m*(A+B*x^n)/(a+b*x^n)/(c+d*x^n),x)

Fricas [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)(c + dx^n)} dx = \int \frac{(Bx^n + A)(ex)^m}{(bx^n + a)(dx^n + c)} dx$$

[In] integrate((e*x)^m*(A+B*x^n)/(a+b*x^n)/(c+d*x^n),x, algorithm="fricas")

[Out] integral((B*x^n + A)*(e*x)^m/(b*d*x^(2*n) + a*c + (b*c + a*d)*x^n), x)

Sympy [F(-2)]

Exception generated.

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

[In] integrate((e*x)**m*(A+B*x**n)/(a+b*x**n)/(c+d*x**n),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

Maxima [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)(c + dx^n)} dx = \int \frac{(Bx^n + A)(ex)^m}{(bx^n + a)(dx^n + c)} dx$$

[In] integrate((e*x)^m*(A+B*x^n)/(a+b*x^n)/(c+d*x^n),x, algorithm="maxima")

[Out] integrate((B*x^n + A)*(e*x)^m/((b*x^n + a)*(d*x^n + c)), x)

Giac [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)(c + dx^n)} dx = \int \frac{(Bx^n + A)(ex)^m}{(bx^n + a)(dx^n + c)} dx$$

[In] integrate((e*x)^m*(A+B*x^n)/(a+b*x^n)/(c+d*x^n),x, algorithm="giac")

[Out] integrate((B*x^n + A)*(e*x)^m/((b*x^n + a)*(d*x^n + c)), x)

Mupad [F(-1)]

Timed out.

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)(c + dx^n)} dx = \int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)(c + dx^n)} dx$$

[In] int(((e*x)^m*(A + B*x^n))/((a + b*x^n)*(c + d*x^n)),x)

[Out] int(((e*x)^m*(A + B*x^n))/((a + b*x^n)*(c + d*x^n)), x)

$$3.27 \quad \int \frac{(ex)^m (A+Bx^n)}{(a+bx^n)^2 (c+dx^n)} dx$$

Optimal result	1026
Rubi [A] (verified)	1026
Mathematica [A] (verified)	1028
Maple [F]	1028
Fricas [F]	1028
Sympy [F(-2)]	1029
Maxima [F]	1029
Giac [F]	1029
Mupad [F(-1)]	1029

Optimal result

Integrand size = 31, antiderivative size = 212

$$\int \frac{(ex)^m (A+Bx^n)}{(a+bx^n)^2 (c+dx^n)} dx = \frac{(Ab-aB)(ex)^{1+m}}{a(bc-ad)en(a+bx^n)} + \frac{(Ab(ad(1+m-2n)-bc(1+m-n))+aB(bc(1+m)-ad(1+m-n)))(ex)^{1+m} \text{Hypergeometric2F1}}{a^2(bc-ad)^2 e(1+m)n} - \frac{d(Bc-Ad)(ex)^{1+m} \text{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{dx^n}{c}\right)}{c(bc-ad)^2 e(1+m)}$$

[Out] (A*b-B*a)*(e*x)^(1+m)/a/(-a*d+b*c)/e/n/(a+b*x^n)+(A*b*(a*d*(1+m-2*n)-b*c*(1+m-n))+a*B*(b*c*(1+m)-a*d*(1+m-n))*(e*x)^(1+m)*hypergeom([1, (1+m)/n], [(1+m+n)/n], -b*x^n/a)/a^2/(-a*d+b*c)^2/e/(1+m)/n-d*(-A*d+B*c)*(e*x)^(1+m)*hypergeom([1, (1+m)/n], [(1+m+n)/n], -d*x^n/c)/c/(-a*d+b*c)^2/e/(1+m)

Rubi [A] (verified)

Time = 0.33 (sec) , antiderivative size = 212, normalized size of antiderivative = 1.00, number of steps used = 5, number of rules used = 3, $\frac{\text{number of rules}}{\text{integrand size}} = 0.097$, Rules used = {609, 611, 371}

$$\int \frac{(ex)^m (A+Bx^n)}{(a+bx^n)^2 (c+dx^n)} dx = \frac{(ex)^{m+1} \text{Hypergeometric2F1}\left(1, \frac{m+1}{n}, \frac{m+n+1}{n}, -\frac{bx^n}{a}\right) (Ab(ad(m-2n+1)-bc(m-n+1))+aB(bc(m+1+n)-ad(m-n+1)))}{a^2 e(m+1)n(bc-ad)^2} - \frac{d(ex)^{m+1}(Bc-Ad) \text{Hypergeometric2F1}\left(1, \frac{m+1}{n}, \frac{m+n+1}{n}, -\frac{dx^n}{c}\right)}{ce(m+1)(bc-ad)^2} + \frac{(ex)^{m+1}(Ab-aB)}{aen(bc-ad)(a+bx^n)}$$

[In] Int[((e*x)^m*(A + B*x^n))/((a + b*x^n)^2*(c + d*x^n)),x]

[Out] ((A*b - a*B)*(e*x)^(1 + m))/(a*(b*c - a*d)*e^n*(a + b*x^n) + ((A*b*(a*d*(1 + m - 2*n) - b*c*(1 + m - n)) + a*B*(b*c*(1 + m) - a*d*(1 + m - n)))*(e*x)^(1 + m)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -((b*x^n)/a)]/(a^2*(b*c - a*d)^2*e*(1 + m)*n) - (d*(B*c - A*d)*(e*x)^(1 + m)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -((d*x^n)/c)]/(c*(b*c - a*d)^2*e*(1 + m))

Rule 371

Int[((c_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Simp[a^p*((c*x)^(m + 1)/(c*(m + 1)))*Hypergeometric2F1[-p, (m + 1)/n, (m + 1)/n + 1, (-b)*(x^n/a)], x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILtQ[p, 0] || GtQ[a, 0])

Rule 609

Int[((g_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_)*((e_) + (f_)*(x_)^(n_)), x_Symbol] := Simp[(-b*e - a*f)*(g*x)^(m + 1)*(a + b*x^n)^(p + 1)*(c + d*x^n)^(q + 1)/(a*g*n*(b*c - a*d)*(p + 1)), x] + Dist[1/(a*n*(b*c - a*d)*(p + 1)), Int[(g*x)^m*(a + b*x^n)^(p + 1)*(c + d*x^n)^q*Simp[c*(b*e - a*f)*(m + 1) + e*n*(b*c - a*d)*(p + 1) + d*(b*e - a*f)*(m + n*(p + q + 2) + 1)*x^n, x], x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n, q}, x] && LtQ[p, -1]

Rule 611

Int[((g_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((e_) + (f_)*(x_)^(n_)))/((c_) + (d_)*(x_)^(n_)), x_Symbol] := Int[ExpandIntegrand[(g*x)^m*(a + b*x^n)^p*((e + f*x^n)/(c + d*x^n)), x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n, p}, x]

Rubi steps

$$\begin{aligned}
 \text{integral} &= \frac{(Ab - aB)(ex)^{1+m}}{a(bc - ad)en(a + bx^n)} - \frac{\int \frac{(ex)^m(-aBc(1+m) + Abc(1+m-n) + aAdn + (Ab - aB)d(1+m-n)x^n)}{(a+bx^n)(c+dx^n)} dx}{a(bc - ad)n} \\
 &= \frac{(Ab - aB)(ex)^{1+m}}{a(bc - ad)en(a + bx^n)} \\
 &\quad - \frac{\int \left(\frac{(-Ab(ad(1+m-2n) - bc(1+m-n)) - aB(bc(1+m) - ad(1+m-n))}{(bc-ad)(a+bx^n)}(ex)^m + \frac{ad(-Bc+Ad)n(ex)^m}{(-bc+ad)(c+dx^n)} \right) dx}{a(bc - ad)n} \\
 &= \frac{(Ab - aB)(ex)^{1+m}}{a(bc - ad)en(a + bx^n)} - \frac{(d(Bc - Ad)) \int \frac{(ex)^m}{c+dx^n} dx}{(bc - ad)^2} \\
 &\quad + \frac{(Ab(ad(1 + m - 2n) - bc(1 + m - n)) + aB(bc(1 + m) - ad(1 + m - n))) \int \frac{(ex)^m}{a+bx^n} dx}{a(bc - ad)^2n}
 \end{aligned}$$

$$\begin{aligned}
&= \frac{(Ab - aB)(ex)^{1+m}}{a(bc - ad)en(a + bx^n)} \\
&+ \frac{(Ab(ad(1 + m - 2n) - bc(1 + m - n)) + aB(bc(1 + m) - ad(1 + m - n)))(ex)^{1+m} {}_2F_1\left(1, \frac{1+m}{n}; \dots\right)}{a^2(bc - ad)^2e(1 + m)n} \\
&- \frac{d(Bc - Ad)(ex)^{1+m} {}_2F_1\left(1, \frac{1+m}{n}; \frac{1+m+n}{n}; -\frac{dx^n}{c}\right)}{c(bc - ad)^2e(1 + m)}
\end{aligned}$$

Mathematica [A] (verified)

Time = 0.36 (sec) , antiderivative size = 152, normalized size of antiderivative = 0.72

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^2 (c + dx^n)} dx = \frac{x(ex)^m (abc(-Bc + Ad) \text{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{bx^n}{a}\right) + a^2d(Bc - Ad) \text{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{dx^n}{c}\right))}{a^2c(bc - ad)^2(1 + m)}$$

[In] Integrate[((e*x)^m*(A + B*x^n))/((a + b*x^n)^2*(c + d*x^n)),x]

[Out] -((x*(e*x)^m*(a*b*c*(-(B*c) + A*d)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -((b*x^n)/a)] + a^2*d*(B*c - A*d)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -((d*x^n)/c)] - (A*b - a*B)*c*(b*c - a*d)*Hypergeometric2F1[2, (1 + m)/n, (1 + m + n)/n, -((b*x^n)/a)]))/(a^2*c*(b*c - a*d)^2*(1 + m))

Maple [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^2 (c + dx^n)} dx$$

[In] int((e*x)^m*(A+B*x^n)/(a+b*x^n)^2/(c+d*x^n),x)

[Out] int((e*x)^m*(A+B*x^n)/(a+b*x^n)^2/(c+d*x^n),x)

Fricas [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^2 (c + dx^n)} dx = \int \frac{(Bx^n + A)(ex)^m}{(bx^n + a)^2(dx^n + c)} dx$$

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

[Out] integral((B*x^n + A)*(e*x)^m/(b^2*d*x^(3*n) + a^2*c + (b^2*c + 2*a*b*d)*x^(2*n) + (2*a*b*c + a^2*d)*x^n), x)

Sympy [F(-2)]

Exception generated.

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^2 (c + dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((e*x)**m*(A+B*x**n)/(a+b*x**n)**2/(c+d*x**n),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

Maxima [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^2 (c + dx^n)} dx = \int \frac{(Bx^n + A)(ex)^m}{(bx^n + a)^2 (dx^n + c)} dx$$

[In] integrate((e*x)^m*(A+B*x^n)/(a+b*x^n)^2/(c+d*x^n),x, algorithm="maxima")

[Out] $-(B*a*e^m - A*b*e^m)*x*x^n/(a^2*b*c^n - a^3*d*n + (a*b^2*c^n - a^2*b*d*n)*x^n) - ((b^2*c*e^m*(m - n + 1) - a*b*d*e^m*(m - 2*n + 1))*A + (a^2*d*e^m*(m - n + 1) - a*b*c*e^m*(m + 1))*B)*integrate(x^n/(a^2*b^2*c^2*n - 2*a^3*b*c*d*n + a^4*d^2*n + (a*b^3*c^2*n - 2*a^2*b^2*c*d*n + a^3*b*d^2*n)*x^n), x) - (B*c*d*e^m - A*d^2*e^m)*integrate(x^n/(b^2*c^3 - 2*a*b*c^2*d + a^2*c*d^2 + (b^2*c^2*d - 2*a*b*c*d^2 + a^2*d^3)*x^n), x)$

Giac [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^2 (c + dx^n)} dx = \int \frac{(Bx^n + A)(ex)^m}{(bx^n + a)^2 (dx^n + c)} dx$$

[In] integrate((e*x)^m*(A+B*x^n)/(a+b*x^n)^2/(c+d*x^n),x, algorithm="giac")

[Out] integrate((B*x^n + A)*(e*x)^m/((b*x^n + a)^2*(d*x^n + c)), x)

Mupad [F(-1)]

Timed out.

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^2 (c + dx^n)} dx = \int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^2 (c + dx^n)} dx$$

[In] int(((e*x)^m*(A + B*x^n))/((a + b*x^n)^2*(c + d*x^n)),x)

[Out] int(((e*x)^m*(A + B*x^n))/((a + b*x^n)^2*(c + d*x^n)), x)

$$3.28 \quad \int \frac{(ex)^m (A+Bx^n)}{(a+bx^n)^3 (c+dx^n)} dx$$

Optimal result	1030
Rubi [A] (verified)	1031
Mathematica [A] (verified)	1033
Maple [F]	1033
Fricas [F]	1034
Sympy [F(-2)]	1034
Maxima [F]	1034
Giac [F]	1035
Mupad [F(-1)]	1035

Optimal result

Integrand size = 31, antiderivative size = 407

$$\int \frac{(ex)^m (A+Bx^n)}{(a+bx^n)^3 (c+dx^n)} dx = \frac{(Ab-aB)(ex)^{1+m}}{2a(bc-ad)en(a+bx^n)^2} + \frac{(Ab(ad(1+m-4n)-bc(1+m-2n))+aB(bc(1+m)-ad(1+m-2n)))(ex)^{1+m}}{2a^2(bc-ad)^2en^2(a+bx^n)} + \frac{(aB(2abcd(1+m)(1+m-2n)-b^2c^2(1+m)(1+m-n)-a^2d^2(1+m^2+m(2-3n)-3n+2n^2))}{c(bc-ad)^3e(1+m)} + \frac{d^2(Bc-Ad)(ex)^{1+m} \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{dx^n}{c}\right)}{c(bc-ad)^3e(1+m)}$$

```
[Out] 1/2*(A*b-B*a)*(e*x)^(1+m)/a/(-a*d+b*c)/e/n/(a+b*x^n)^2+1/2*(A*b*(a*d*(1+m-4
*n)-b*c*(1+m-2*n))+a*B*(b*c*(1+m)-a*d*(1+m-2*n))*(e*x)^(1+m)/a^2/(-a*d+b*c
)^2/e/n^2/(a+b*x^n)+1/2*(a*B*(2*a*b*c*d*(1+m)*(1+m-2*n)-b^2*c^2*(1+m)*(1+m-
n)-a^2*d^2*(1+m^2+m*(2-3*n)-3*n+2*n^2))+A*b*(b^2*c^2*(1+m^2+m*(2-3*n)-3*n+2
*n^2)-2*a*b*c*d*(1+m^2+m*(2-4*n)-4*n+3*n^2)+a^2*d^2*(1+m^2+m*(2-5*n)-5*n+6*
n^2))*(e*x)^(1+m)*hypergeom([1, (1+m)/n], [(1+m+n)/n], -b*x^n/a)/a^3/(-a*d+b
*c)^3/e/(1+m)/n^2+d^2*(-A*d+B*c)*(e*x)^(1+m)*hypergeom([1, (1+m)/n], [(1+m+n
)/n], -d*x^n/c)/c/(-a*d+b*c)^3/e/(1+m)
```

Rubi [A] (verified)

Time = 0.77 (sec) , antiderivative size = 407, normalized size of antiderivative = 1.00, number of steps used = 6, number of rules used = 3, $\frac{\text{number of rules}}{\text{integrand size}} = 0.097$, Rules used = {609, 611, 371}

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^3 (c + dx^n)} dx$$

$$= \frac{(ex)^{m+1} (Ab(ad(m - 4n + 1) - bc(m - 2n + 1)) + aB(bc(m + 1) - ad(m - 2n + 1)))}{2a^2en^2(bc - ad)^2 (a + bx^n)}$$

$$+ \frac{(ex)^{m+1} \text{Hypergeometric2F1}\left(1, \frac{m+1}{n}, \frac{m+n+1}{n}, -\frac{bx^n}{a}\right) (Ab(a^2d^2(m^2 + m(2 - 5n) + 6n^2 - 5n + 1) - 2abc)}{ce(m + 1)(bc - ad)^3}}{ce(m + 1)(bc - ad)^3}$$

$$+ \frac{d^2(ex)^{m+1} (Bc - Ad) \text{Hypergeometric2F1}\left(1, \frac{m+1}{n}, \frac{m+n+1}{n}, -\frac{dx^n}{c}\right)}{2aen(bc - ad)(a + bx^n)^2}$$

[In] Int[((e*x)^m*(A + B*x^n))/((a + b*x^n)^3*(c + d*x^n)), x]

[Out] ((A*b - a*B)*(e*x)^(1 + m))/(2*a*(b*c - a*d)*e*n*(a + b*x^n)^2) + ((A*b*(a*d*(1 + m - 4*n) - b*c*(1 + m - 2*n)) + a*B*(b*c*(1 + m) - a*d*(1 + m - 2*n)))*(e*x)^(1 + m))/(2*a^2*(b*c - a*d)^2*e*n^2*(a + b*x^n)) + ((a*B*(2*a*b*c*d*(1 + m)*(1 + m - 2*n) - b^2*c^2*(1 + m)*(1 + m - n) - a^2*d^2*(1 + m^2 + m*(2 - 3*n) - 3*n + 2*n^2)) + A*b*(b^2*c^2*(1 + m^2 + m*(2 - 3*n) - 3*n + 2*n^2) - 2*a*b*c*d*(1 + m^2 + m*(2 - 4*n) - 4*n + 3*n^2) + a^2*d^2*(1 + m^2 + m*(2 - 5*n) - 5*n + 6*n^2)))*(e*x)^(1 + m)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -(b*x^n)/a])/((2*a^3*(b*c - a*d)^3*e*(1 + m)*n^2) + (d^2*(B*c - A*d)*(e*x)^(1 + m)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -(d*x^n)/c]))/(c*(b*c - a*d)^3*e*(1 + m))

Rule 371

Int[((c_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_), x_Symbol] := Simp[a^p * ((c*x)^(m + 1)/(c*(m + 1)))*Hypergeometric2F1[-p, (m + 1)/n, (m + 1)/n + 1, (-b)*(x^n/a)], x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILtQ[p, 0] || GtQ[a, 0])

Rule 609

Int[((g_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_)*((c_) + (d_.)*(x_)^(n_))^(q_)*((e_) + (f_.)*(x_)^(n_)), x_Symbol] := Simp[(-b*e - a*f)*(g*x)^(m + 1)*(a + b*x^n)^(p + 1)*((c + d*x^n)^(q + 1)/(a*g*n*(b*c - a*d)*(p + 1))), x] + Dist[1/(a*n*(b*c - a*d)*(p + 1)), Int[(g*x)^m*(a + b*x^n)^(p + 1)*(c + d*x^n)^q*Simp[c*(b*e - a*f)*(m + 1) + e*n*(b*c - a*d)*(p + 1) + d*(b*e - a*f)*(m + n*(p + q + 2) + 1)*x^n, x], x] /; FreeQ[{a, b, c, d, e, f, g}

, m, n, q}, x] && LtQ[p, -1]

Rule 611

Int[(((g_)*(x_)^(m_))*((a_) + (b_)*(x_)^(n_))^(p_))*((e_) + (f_)*(x_)^(n_)))/((c_) + (d_)*(x_)^(n_)), x_Symbol] := Int[ExpandIntegrand[(g*x)^m*(a + b*x^n)^p*((e + f*x^n)/(c + d*x^n)), x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n, p}, x]

Rubi steps

$$\begin{aligned}
 \text{integral} &= \frac{(Ab - aB)(ex)^{1+m}}{2a(bc - ad)en(a + bx^n)^2} \\
 &\quad - \frac{\int \frac{(ex)^m(-aBc(1+m) + Abc(1+m-2n) + 2aAdn + (Ab - aB)d(1+m-2n)x^n)}{(a+bx^n)^2(c+dx^n)} dx}{2a(bc - ad)n} \\
 &= \frac{(Ab - aB)(ex)^{1+m}}{2a(bc - ad)en(a + bx^n)^2} \\
 &\quad + \frac{(Ab(ad(1+m-4n) - bc(1+m-2n)) + aB(bc(1+m) - ad(1+m-2n)))(ex)^{1+m}}{2a^2(bc - ad)^2en^2(a + bx^n)} \\
 &\quad + \frac{\int \frac{(ex)^m(-c(1+m)(Ab(ad(1+m-4n) - bc(1+m-2n)) + aB(bc(1+m) - ad(1+m-2n))) + (bc - ad)n(aBc(1+m) - Abc(1+m-2n) - 2aA)}{(a+bx^n)(c+dx^n)} dx}{2a^2(bc - ad)^2n^2} \\
 &= \frac{(Ab - aB)(ex)^{1+m}}{2a(bc - ad)en(a + bx^n)^2} \\
 &\quad + \frac{(Ab(ad(1+m-4n) - bc(1+m-2n)) + aB(bc(1+m) - ad(1+m-2n)))(ex)^{1+m}}{2a^2(bc - ad)^2en^2(a + bx^n)} \\
 &\quad + \frac{\int \left(\frac{(aB(2abcd(1+m)(1+m-2n) - b^2c^2(1+m)(1+m-n) - a^2d^2(1+m^2+m(2-3n) - 3n+2n^2)) + Ab(b^2c^2(1+m^2+m(2-3n) - 3n+2n^2))}{(bc-ad)(a+bx^n)} \right) dx}{2a^2(bc - ad)^2} \\
 &= \frac{(Ab - aB)(ex)^{1+m}}{2a(bc - ad)en(a + bx^n)^2} \\
 &\quad + \frac{(Ab(ad(1+m-4n) - bc(1+m-2n)) + aB(bc(1+m) - ad(1+m-2n)))(ex)^{1+m}}{2a^2(bc - ad)^2en^2(a + bx^n)} \\
 &\quad + \frac{(d^2(Bc - Ad)) \int \frac{(ex)^m}{c+dx^n} dx}{(bc - ad)^3} \\
 &\quad + \frac{(aB(2abcd(1+m)(1+m-2n) - b^2c^2(1+m)(1+m-n) - a^2d^2(1+m^2+m(2-3n) - 3n+2n^2)) + Ab(b^2c^2(1+m^2+m(2-3n) - 3n+2n^2))}{(bc - ad)^3}
 \end{aligned}$$

$$\begin{aligned}
&= \frac{(Ab - aB)(ex)^{1+m}}{2a(bc - ad)en(a + bx^n)^2} \\
&+ \frac{(Ab(ad(1 + m - 4n) - bc(1 + m - 2n)) + aB(bc(1 + m) - ad(1 + m - 2n)))(ex)^{1+m}}{2a^2(bc - ad)^2en^2(a + bx^n)} \\
&+ \frac{(aB(2abcd(1 + m)(1 + m - 2n) - b^2c^2(1 + m)(1 + m - n) - a^2d^2(1 + m^2 + m(2 - 3n) - 3n - 3n^2)))(ex)^{1+m}}{2a^2(bc - ad)^2en^2(a + bx^n)} \\
&+ \frac{d^2(Bc - Ad)(ex)^{1+m} {}_2F_1\left(1, \frac{1+m}{n}; \frac{1+m+n}{n}; -\frac{dx^n}{c}\right)}{c(bc - ad)^3e(1 + m)}
\end{aligned}$$

Mathematica [A] (verified)

Time = 0.52 (sec) , antiderivative size = 199, normalized size of antiderivative = 0.49

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^3 (c + dx^n)} dx$$

$$= \frac{x(ex)^m \left(\frac{bd(-Bc+Ad) \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{bx^n}{a}\right)}{a} + \frac{d^2(Bc-Ad) \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{dx^n}{c}\right)}{c} + \frac{b(bc-ad)}{(bc-ad)^3(1+m)} \right)}{(bc-ad)^3(1+m)}$$

[In] Integrate[((e*x)^m*(A + B*x^n))/((a + b*x^n)^3*(c + d*x^n)),x]

[Out] (x*(e*x)^m*((b*d*(-B*c) + A*d)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -((b*x^n)/a)])/a + (d^2*(B*c - A*d)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -((d*x^n)/c)])/c + (b*(b*c - a*d)*(B*c - A*d)*Hypergeometric2F1[2, (1 + m)/n, (1 + m + n)/n, -((b*x^n)/a)])/a^2 + ((A*b - a*B)*(b*c - a*d)^2*Hypergeometric2F1[3, (1 + m)/n, (1 + m + n)/n, -((b*x^n)/a)])/a^3)/((b*c - a*d)^3*(1 + m))

Maple [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^3 (c + dx^n)} dx$$

[In] int((e*x)^m*(A+B*x^n)/(a+b*x^n)^3/(c+d*x^n),x)

[Out] int((e*x)^m*(A+B*x^n)/(a+b*x^n)^3/(c+d*x^n),x)

Fricas [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^3 (c + dx^n)} dx = \int \frac{(Bx^n + A)(ex)^m}{(bx^n + a)^3 (dx^n + c)} dx$$

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

[Out] integral((B*x^n + A)*(e*x)^m/(b^3*d*x^(4*n) + a^3*c + (b^3*c + 3*a*b^2*d)*x^(3*n) + 3*(a*b^2*c + a^2*b*d)*x^(2*n) + (3*a^2*b*c + a^3*d)*x^n), x)

Sympy [F(-2)]

Exception generated.

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^3 (c + dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((e*x)**m*(A+B*x**n)/(a+b*x**n)**3/(c+d*x**n),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

Maxima [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^3 (c + dx^n)} dx = \int \frac{(Bx^n + A)(ex)^m}{(bx^n + a)^3 (dx^n + c)} dx$$

[In] integrate((e*x)^m*(A+B*x^n)/(a+b*x^n)^3/(c+d*x^n),x, algorithm="maxima")

[Out] -(((m^2 - m*(3*n - 2) + 2*n^2 - 3*n + 1)*b^3*c^2*e^m - 2*(m^2 - 2*m*(2*n - 1) + 3*n^2 - 4*n + 1)*a*b^2*c*d*e^m + (m^2 - m*(5*n - 2) + 6*n^2 - 5*n + 1)*a^2*b*d^2*e^m)*A - ((m^2 - m*(n - 2) - n + 1)*a*b^2*c^2*e^m - 2*(m^2 - 2*m*(n - 1) - 2*n + 1)*a^2*b*c*d*e^m + (m^2 - m*(3*n - 2) + 2*n^2 - 3*n + 1)*a^3*d^2*e^m)*B)*integrate(-1/2*x^m/(a^3*b^3*c^3*n^2 - 3*a^4*b^2*c^2*d*n^2 + 3*a^5*b*c*d^2*n^2 - a^6*d^3*n^2 + (a^2*b^4*c^3*n^2 - 3*a^3*b^3*c^2*d*n^2 + 3*a^4*b^2*c*d^2*n^2 - a^5*b*d^3*n^2)*x^n), x) - (B*c*d^2*e^m - A*d^3*e^m)*integrate(-x^m/(b^3*c^4 - 3*a*b^2*c^3*d + 3*a^2*b*c^2*d^2 - a^3*c*d^3 + (b^3*c^3*d - 3*a*b^2*c^2*d^2 + 3*a^2*b*c*d^3 - a^3*d^4)*x^n), x) - 1/2*(((a*b^2*c*e^m*(m - 3*n + 1) - a^2*b*d*e^m*(m - 5*n + 1))*A - (a^2*b*c*e^m*(m - n + 1) - a^3*d*e^m*(m - 3*n + 1))*B)*x*x^m + ((b^3*c*e^m*(m - 2*n + 1) - a*b^2*d*e^m*(m - 4*n + 1))*A + (a^2*b*d*e^m*(m - 2*n + 1) - a*b^2*c*e^m*(m + 1))*B)*x*e^(m*log(x) + n*log(x)))/(a^4*b^2*c^2*n^2 - 2*a^5*b*c*d*n^2 + a^6*d^2*n^2 + (a^2*b^4*c^2*n^2 - 2*a^3*b^3*c*d*n^2 + a^4*b^2*d^2*n^2)*x^(2*n) + 2*(a^3*b^3*c^2*n^2 - 2*a^4*b^2*c*d*n^2 + a^5*b*d^2*n^2)*x^n)

Giac [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^3 (c + dx^n)} dx = \int \frac{(Bx^n + A)(ex)^m}{(bx^n + a)^3 (dx^n + c)} dx$$

[In] integrate((e*x)^m*(A+B*x^n)/(a+b*x^n)^3/(c+d*x^n),x, algorithm="giac")

[Out] integrate((B*x^n + A)*(e*x)^m/((b*x^n + a)^3*(d*x^n + c)), x)

Mupad [F(-1)]

Timed out.

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^3 (c + dx^n)} dx = \int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^3 (c + dx^n)} dx$$

[In] int(((e*x)^m*(A + B*x^n))/((a + b*x^n)^3*(c + d*x^n)),x)

[Out] int(((e*x)^m*(A + B*x^n))/((a + b*x^n)^3*(c + d*x^n)), x)

$$3.29 \quad \int \frac{(ex)^m (a+bx^n)^3 (A+Bx^n)}{(c+dx^n)^2} dx$$

Optimal result	1036
Rubi [A] (verified)	1037
Mathematica [A] (verified)	1039
Maple [F]	1040
Fricas [F]	1040
Sympy [F(-1)]	1040
Maxima [F]	1040
Giac [F]	1041
Mupad [F(-1)]	1041

Optimal result

Integrand size = 31, antiderivative size = 386

$$\int \frac{(ex)^m (a+bx^n)^3 (A+Bx^n)}{(c+dx^n)^2} dx =$$

$$\frac{b^2(3ad(Ad(1+m+n) - Bc(1+m+2n)) - bc(Ad(1+m+2n) - Bc(1+m+3n)))x^{1+n}(ex)^m}{cd^3n(1+m+n)}$$

$$- \frac{b^3(Ad(1+m+2n) - Bc(1+m+3n))x^{1+2n}(ex)^m}{cd^2n(1+m+2n)}$$

$$- \frac{b(3a^2d^2(Ad(1+m) - Bc(1+m+n)) - 3abcd(Ad(1+m+n) - Bc(1+m+2n)) + b^2c^2(Ad(1+m+n) - Bc(1+m+3n)))}{cd^4e(1+m)n}$$

$$- \frac{(Bc - Ad)(ex)^{1+m} (a+bx^n)^3}{cde n (c+dx^n)}$$

$$+ \frac{(bc - ad)^2(ad(Bc(1+m) - Ad(1+m-n)) + bc(Ad(1+m+2n) - Bc(1+m+3n)))(ex)^{1+m} \text{Hypergeom}}{c^2d^4e(1+m)n}$$

```
[Out] -b^2*(3*a*d*(A*d*(1+m+n)-B*c*(1+m+2*n))-b*c*(A*d*(1+m+2*n)-B*c*(1+m+3*n)))*
x^(1+n)*(e*x)^m/c/d^3/n/(1+m+n)-b^3*(A*d*(1+m+2*n)-B*c*(1+m+3*n))*x^(1+2*n)
*(e*x)^m/c/d^2/n/(1+m+2*n)-b*(3*a^2*d^2*(A*d*(1+m)-B*c*(1+m+n))-3*a*b*c*d*(
A*d*(1+m+n)-B*c*(1+m+2*n))+b^2*c^2*(A*d*(1+m+2*n)-B*c*(1+m+3*n)))*(e*x)^(1+
m)/c/d^4/e/(1+m)/n-(-A*d+B*c)*(e*x)^(1+m)*(a+b*x^n)^3/c/d/e/n/(c+d*x^n)+(-a
*d+b*c)^2*(a*d*(B*c*(1+m)-A*d*(1+m-n))+b*c*(A*d*(1+m+2*n)-B*c*(1+m+3*n)))*(
e*x)^(1+m)*hypergeom([1, (1+m)/n], [(1+m+n)/n], -d*x^n/c)/c^2/d^4/e/(1+m)/n
```

Rubi [A] (verified)

Time = 0.67 (sec) , antiderivative size = 381, normalized size of antiderivative = 0.99, number of steps used = 8, number of rules used = 5, $\frac{\text{number of rules}}{\text{integrand size}} = 0.161$, Rules used = {608, 584, 20, 30, 371}

$$\int \frac{(ex)^m (a + bx^n)^3 (A + Bx^n)}{(c + dx^n)^2} dx =$$

$$\frac{b(ex)^{m+1} (3a^2d^2(Ad(m+1) - Bc(m+n+1)) - 3abcd(Ad(m+n+1) - Bc(m+2n+1)) + b^2c^2(Ad(m+2n+1) - Bc(m+3n+1)))}{cd^4e(m+1)n}$$

$$- \frac{b^2x^{n+1}(ex)^m(3ad(Ad(m+n+1) - Bc(m+2n+1)) - bc(Ad(m+2n+1) - Bc(m+3n+1)))}{cd^3n(m+n+1)}$$

$$+ \frac{(ex)^{m+1}(bc - ad)^2 \text{Hypergeometric2F1}\left(1, \frac{m+1}{n}, \frac{m+n+1}{n}, -\frac{dx^n}{c}\right) (ad(Bc(m+1) - Ad(m-n+1)) + bc)}{c^2d^4e(m+1)n}$$

$$- \frac{(ex)^{m+1} (a + bx^n)^3 (Bc - Ad)}{cdn(c + dx^n)} - \frac{b^3x^{2n+1}(ex)^m \left(A - \frac{Bc(m+3n+1)}{d(m+2n+1)}\right)}{cdn}$$

[In] Int[((e*x)^m*(a + b*x^n)^3*(A + B*x^n))/(c + d*x^n)^2,x]

[Out] -((b^2*(3*a*d*(A*d*(1 + m + n) - B*c*(1 + m + 2*n)) - b*c*(A*d*(1 + m + 2*n) - B*c*(1 + m + 3*n)))*x^(1 + n)*(e*x)^m)/(c*d^3*n*(1 + m + n)) - (b^3*(A - (B*c*(1 + m + 3*n))/(d*(1 + m + 2*n)))*x^(1 + 2*n)*(e*x)^m)/(c*d*n) - (b*(3*a^2*d^2*(A*d*(1 + m) - B*c*(1 + m + n)) - 3*a*b*c*d*(A*d*(1 + m + n) - B*c*(1 + m + 2*n)) + b^2*c^2*(A*d*(1 + m + 2*n) - B*c*(1 + m + 3*n)))*(e*x)^(1 + m))/(c*d^4*e*(1 + m)*n) - ((B*c - A*d)*(e*x)^(1 + m)*(a + b*x^n)^3)/(c*d*e*n*(c + d*x^n)) + ((b*c - a*d)^2*(a*d*(B*c*(1 + m) - A*d*(1 + m - n)) + b*c*(A*d*(1 + m + 2*n) - B*c*(1 + m + 3*n)))*(e*x)^(1 + m)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -((d*x^n)/c)]/(c^2*d^4*e*(1 + m)*n)

Rule 20

Int[(u_)*((a_)*(v_))^(m_)*((b_)*(v_))^(n_), x_Symbol] := Dist[b^IntPart[n]*((b*v)^FracPart[n]/(a^IntPart[n]*(a*v)^FracPart[n])), Int[u*(a*v)^(m+n), x], x] /; FreeQ[{a, b, m, n}, x] && !IntegerQ[m] && !IntegerQ[n] && !IntegerQ[m+n]

Rule 30

Int[(x_)^(m_), x_Symbol] := Simp[x^(m+1)/(m+1), x] /; FreeQ[m, x] && N eQ[m, -1]

Rule 371

Int[((c_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Simp[a^p*((c*x)^(m+1)/(c*(m+1)))*Hypergeometric2F1[-p, (m+1)/n, (m+1)/n+1

, (-b)*(x^n/a)], x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILtQ[p, 0] || GtQ[a, 0])

Rule 584

Int[((g_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_)*((e_) + (f_)*(x_)^(n_))^(r_), x_Symbol] := Int[ExpandIntegrand[(g*x)^m*(a + b*x^n)^p*(c + d*x^n)^q*(e + f*x^n)^r, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n}, x] && IGtQ[p, -2] && IGtQ[q, 0] && IGtQ[r, 0]

Rule 608

Int[((g_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_)*((e_) + (f_)*(x_)^(n_)), x_Symbol] := Simp[(-b*e - a*f)*(g*x)^(m + 1)*(a + b*x^n)^(p + 1)*((c + d*x^n)^q/(a*b*g*n*(p + 1))), x] + Dist[1/(a*b*n*(p + 1)), Int[(g*x)^m*(a + b*x^n)^(p + 1)*(c + d*x^n)^(q - 1)*Simp[c*(b*e*n*(p + 1) + (b*e - a*f)*(m + 1)) + d*(b*e*n*(p + 1) + (b*e - a*f)*(m + n*q + 1))*x^n, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n}, x] && LtQ[p, -1] && GtQ[q, 0] && !(EqQ[q, 1] && SimplerQ[b*c - a*d, b*e - a*f])

Rubi steps

$$\begin{aligned}
 \text{integral} &= -\frac{(Bc - Ad)(ex)^{1+m} (a + bx^n)^3}{cdn(c + dx^n)} \\
 &\quad - \frac{\int \frac{(ex)^m (a + bx^n)^2 (-a(Bc(1+m) - Ad(1+m-n)) + b(Ad(1+m+2n) - Bc(1+m+3n))x^n}{c + dx^n} dx}{cdn} \\
 &= -\frac{(Bc - Ad)(ex)^{1+m} (a + bx^n)^3}{cdn(c + dx^n)} \\
 &\quad - \frac{\int \left(\frac{b(3a^2d^2(Ad(1+m) - Bc(1+m+n)) - 3abcd(Ad(1+m+n) - Bc(1+m+2n)) + b^2c^2(Ad(1+m+2n) - Bc(1+m+3n))}{d^3} \right) (ex)^m}{cdn} + \frac{b^2(3a^2d^2(Ad(1+m) - Bc(1+m+n)) - 3abcd(Ad(1+m+n) - Bc(1+m+2n)) + b^2c^2(Ad(1+m+2n) - Bc(1+m+3n)))}{cd^4e(1+m)n} \\
 &= -\frac{(Bc - Ad)(ex)^{1+m} (a + bx^n)^3}{cdn(c + dx^n)} \\
 &\quad - \frac{(b^3(Ad(1+m+2n) - Bc(1+m+3n))) \int x^{2n} (ex)^m dx}{cd^2n} \\
 &\quad - \frac{(b^2(3ad(Ad(1+m+n) - Bc(1+m+2n)) - bc(Ad(1+m+2n) - Bc(1+m+3n)))) \int x^n (ex)^m dx}{cd^3n} \\
 &\quad + \frac{((bc - ad)^2(ad(Bc(1+m) - Ad(1+m-n)) + bc(Ad(1+m+2n) - Bc(1+m+3n)))) \int \frac{(ex)^m}{c + dx^n} dx}{cd^4n}
 \end{aligned}$$

$$\begin{aligned}
&= \frac{b(3a^2d^2(Ad(1+m) - Bc(1+m+n)) - 3abcd(Ad(1+m+n) - Bc(1+m+2n)) + b^2c^2(Ad(1+m+n) - Bc(1+m+2n))}{cd^4e(1+m)n} \\
&\quad - \frac{(Bc - Ad)(ex)^{1+m} (a + bx^n)^3}{cden (c + dx^n)} \\
&\quad + \frac{(bc - ad)^2(ad(Bc(1+m) - Ad(1+m-n)) + bc(Ad(1+m+2n) - Bc(1+m+3n)))(ex)^{1+m}}{c^2d^4e(1+m)n} \\
&\quad - \frac{(b^3(Ad(1+m+2n) - Bc(1+m+3n))x^{-m}(ex)^m) \int x^{m+2n} dx}{cd^2n} \\
&\quad - \frac{(b^2(3ad(Ad(1+m+n) - Bc(1+m+2n)) - bc(Ad(1+m+2n) - Bc(1+m+3n)))x^{-m}(ex)^m}{cd^3n} \\
&= \frac{b^2(3ad(Ad(1+m+n) - Bc(1+m+2n)) - bc(Ad(1+m+2n) - Bc(1+m+3n)))x^{1+n}(ex)^m}{cd^3n(1+m+n)} \\
&\quad - \frac{b^3(Ad(1+m+2n) - Bc(1+m+3n))x^{1+2n}(ex)^m}{cd^2n(1+m+2n)} \\
&\quad - \frac{b(3a^2d^2(Ad(1+m) - Bc(1+m+n)) - 3abcd(Ad(1+m+n) - Bc(1+m+2n)) + b^2c^2(Ad(1+m+n) - Bc(1+m+2n))}{cd^4e(1+m)n} \\
&\quad - \frac{(Bc - Ad)(ex)^{1+m} (a + bx^n)^3}{cden (c + dx^n)} \\
&\quad + \frac{(bc - ad)^2(ad(Bc(1+m) - Ad(1+m-n)) + bc(Ad(1+m+2n) - Bc(1+m+3n)))(ex)^{1+m}}{c^2d^4e(1+m)n}
\end{aligned}$$

Mathematica [A] (verified)

Time = 1.13 (sec) , antiderivative size = 220, normalized size of antiderivative = 0.57

$$\int \frac{(ex)^m (a + bx^n)^3 (A + Bx^n)}{(c + dx^n)^2} dx$$

$$= \frac{x(ex)^m \left(\frac{b(3a^2Bd^2 + b^2c(3Bc - 2Ad) + 3abd(-2Bc + Ad))}{1+m} + \frac{b^2d(-2bBc + Abd + 3aBd)x^n}{1+m+n} + \frac{b^3Bd^2x^{2n}}{1+m+2n} - \frac{(bc-ad)^2(4bBc - 3Abd - aBd)}{c^2(1+m)} \right)}{d^4}$$

[In] Integrate[((e*x)^m*(a + b*x^n)^3*(A + B*x^n))/(c + d*x^n)^2,x]

[Out] (x*(e*x)^m*((b*(3*a^2*B*d^2 + b^2*c*(3*B*c - 2*A*d) + 3*a*b*d*(-2*B*c + A*d)))/(1 + m) + (b^2*d*(-2*b*B*c + A*b*d + 3*a*B*d)*x^n)/(1 + m + n) + (b^3*B*d^2*x^(2*n))/(1 + m + 2*n) - ((b*c - a*d)^2*(4*b*B*c - 3*A*b*d - a*B*d)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -((d*x^n)/c)]/(c*(1 + m)) + ((b*c - a*d)^3*(B*c - A*d)*Hypergeometric2F1[2, (1 + m)/n, (1 + m + n)/n, -((d*x^n)/c)]/(c^2*(1 + m))))/d^4

Maple [F]

$$\int \frac{(ex)^m (a + bx^n)^3 (A + Bx^n)}{(c + dx^n)^2} dx$$

[In] int((e*x)^m*(a+b*x^n)^3*(A+B*x^n)/(c+d*x^n)^2,x)

[Out] int((e*x)^m*(a+b*x^n)^3*(A+B*x^n)/(c+d*x^n)^2,x)

Fricas [F]

$$\int \frac{(ex)^m (a + bx^n)^3 (A + Bx^n)}{(c + dx^n)^2} dx = \int \frac{(Bx^n + A)(bx^n + a)^3 (ex)^m}{(dx^n + c)^2} dx$$

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

[Out] integral((B*b^3*x^(4*n) + A*a^3 + (3*B*a*b^2 + A*b^3)*x^(3*n) + 3*(B*a^2*b + A*a*b^2)*x^(2*n) + (B*a^3 + 3*A*a^2*b)*x^n)*(e*x)^m/(d^2*x^(2*n) + 2*c*d*x^n + c^2), x)

Sympy [F(-1)]

Timed out.

$$\int \frac{(ex)^m (a + bx^n)^3 (A + Bx^n)}{(c + dx^n)^2} dx = \text{Timed out}$$

[In] integrate((e*x)**m*(a+b*x**n)**3*(A+B*x**n)/(c+d*x**n)**2,x)

[Out] Timed out

Maxima [F]

$$\int \frac{(ex)^m (a + bx^n)^3 (A + Bx^n)}{(c + dx^n)^2} dx = \int \frac{(Bx^n + A)(bx^n + a)^3 (ex)^m}{(dx^n + c)^2} dx$$

[In] integrate((e*x)^m*(a+b*x^n)^3*(A+B*x^n)/(c+d*x^n)^2,x, algorithm="maxima")

[Out] ((b^3*c^3*d*e^m*(m + 2*n + 1) - 3*a*b^2*c^2*d^2*e^m*(m + n + 1) - a^3*d^4*e^m*(m - n + 1) + 3*a^2*b*c*d^3*e^m*(m + 1))*A - (b^3*c^4*e^m*(m + 3*n + 1) - 3*a*b^2*c^3*d*e^m*(m + 2*n + 1) + 3*a^2*b*c^2*d^2*e^m*(m + n + 1) - a^3*c*d^3*e^m*(m + 1))*B)*integrate(x^m/(c*d^5*n*x^n + c^2*d^4*n), x) + ((m^2*n + (n^2 + 2*n)*m + n^2 + n)*B*b^3*c*d^3*e^m*x*e^(m*log(x) + 3*n*log(x)) - ((m^3 + m^2*(5*n + 3) + 4*n^3 + (8*n^2 + 10*n + 3)*m + 8*n^2 + 5*n + 1)*b^3*

$$\begin{aligned}
& c^3 d e^m - 3(m^3 + m^2(4n + 3) + 2n^3 + (5n^2 + 8n + 3)m + 5n^2 + \\
& 4n + 1) a^2 b^2 c^2 d^2 e^m + 3(m^3 + 3m^2(n + 1) + (2n^2 + 6n + 3)m + \\
& 2n^2 + 3n + 1) a^2 b^2 c^2 d^3 e^m - (m^3 + 3m^2(n + 1) + (2n^2 + 6n + 3) \\
&) m + 2n^2 + 3n + 1) a^3 d^4 e^m) A - ((m^3 + 3m^2(2n + 1) + 6n^3 + (\\
& 11n^2 + 12n + 3)m + 11n^2 + 6n + 1) b^3 c^4 e^m - 3(m^3 + m^2(5n + \\
& 3) + 4n^3 + (8n^2 + 10n + 3)m + 8n^2 + 5n + 1) a^2 b^2 c^3 d e^m + 3(m \\
& ^3 + m^2(4n + 3) + 2n^3 + (5n^2 + 8n + 3)m + 5n^2 + 4n + 1) a^2 b^2 c \\
& ^2 d^2 e^m - (m^3 + 3m^2(n + 1) + (2n^2 + 6n + 3)m + 2n^2 + 3n + 1) a \\
& ^3 c^2 d^3 e^m) B) x^m + ((m^2 n + 2(n^2 + n)m + 2n^2 + n) A b^3 c^2 d^3 e^m \\
& - ((m^2 n + (3n^2 + 2n)m + 3n^2 + n) b^3 c^2 d^2 e^m - 3(m^2 n + 2 \\
& * (n^2 + n)m + 2n^2 + n) a^2 b^2 c^2 d^3 e^m) B) x^m e^{(m \log(x) + 2n \log(x))} - \\
& (((m^2 n + 4n^3 + 2(2n^2 + n)m + 4n^2 + n) b^3 c^2 d^2 e^m - 3(m^2 n \\
& + 2n^3 + (3n^2 + 2n)m + 3n^2 + n) a^2 b^2 c^2 d^3 e^m) A - ((m^2 n + 6n^3 \\
& + (5n^2 + 2n)m + 5n^2 + n) b^3 c^3 d e^m - 3(m^2 n + 4n^3 + 2(2n^2 \\
& + n)m + 4n^2 + n) a^2 b^2 c^2 d^2 e^m + 3(m^2 n + 2n^3 + (3n^2 + 2n) m \\
& + 3n^2 + n) a^2 b^2 c^2 d^3 e^m) B) x^m e^{(m \log(x) + n \log(x))}) / ((m^3 n + 3(n^2 \\
& + n)m^2 + 2n^3 + (2n^3 + 6n^2 + 3n)m + 3n^2 + n) c^2 d^5 x^n + (m^3 n \\
& + 3(n^2 + n)m^2 + 2n^3 + (2n^3 + 6n^2 + 3n)m + 3n^2 + n) c^2 d^4)
\end{aligned}$$

Giac [F]

$$\int \frac{(ex)^m (a + bx^n)^3 (A + Bx^n)}{(c + dx^n)^2} dx = \int \frac{(Bx^n + A)(bx^n + a)^3 (ex)^m}{(dx^n + c)^2} dx$$

[In] integrate((e*x)^m*(a+b*x^n)^3*(A+B*x^n)/(c+d*x^n)^2,x, algorithm="giac")

[Out] integrate((B*x^n + A)*(b*x^n + a)^3*(e*x)^m/(d*x^n + c)^2, x)

Mupad [F(-1)]

Timed out.

$$\int \frac{(ex)^m (a + bx^n)^3 (A + Bx^n)}{(c + dx^n)^2} dx = \int \frac{(ex)^m (A + Bx^n) (a + bx^n)^3}{(c + dx^n)^2} dx$$

[In] int(((e*x)^m*(A + B*x^n)*(a + b*x^n)^3)/(c + d*x^n)^2,x)

[Out] int(((e*x)^m*(A + B*x^n)*(a + b*x^n)^3)/(c + d*x^n)^2, x)

$$3.30 \quad \int \frac{(ex)^m (a+bx^n)^2 (A+Bx^n)}{(c+dx^n)^2} dx$$

Optimal result	1042
Rubi [A] (verified)	1042
Mathematica [A] (verified)	1045
Maple [F]	1045
Fricas [F]	1046
Sympy [F]	1046
Maxima [F]	1046
Giac [F]	1047
Mupad [F(-1)]	1047

Optimal result

Integrand size = 31, antiderivative size = 267

$$\int \frac{(ex)^m (a+bx^n)^2 (A+Bx^n)}{(c+dx^n)^2} dx = -\frac{b^2(Ad(1+m+n) - Bc(1+m+2n))x^{1+n}(ex)^m}{cd^2n(1+m+n)} - \frac{b(2ad(Ad(1+m) - Bc(1+m+n)) - bc(Ad(1+m+n) - Bc(1+m+2n)))(ex)^{1+m}}{cd^3e(1+m)n} - \frac{(Bc - Ad)(ex)^{1+m} (a+bx^n)^2}{cde n (c+dx^n)} - \frac{(bc - ad)(ad(Bc(1+m) - Ad(1+m-n)) + bc(Ad(1+m+n) - Bc(1+m+2n)))(ex)^{1+m}}{c^2d^3e(1+m)n} \text{ Hypergeom}$$

```
[Out] -b^2*(A*d*(1+m+n)-B*c*(1+m+2*n))*x^(1+n)*(e*x)^m/c/d^2/n/(1+m+n)-b*(2*a*d*(A*d*(1+m)-B*c*(1+m+n))-b*c*(A*d*(1+m+n)-B*c*(1+m+2*n)))*(e*x)^(1+m)/c/d^3/e/(1+m)/n-(-A*d+B*c)*(e*x)^(1+m)*(a+b*x^n)^2/c/d/e/n/(c+d*x^n)-(-a*d+b*c)*(a*d*(B*c*(1+m)-A*d*(1+m-n))+b*c*(A*d*(1+m+n)-B*c*(1+m+2*n)))*(e*x)^(1+m)*hypergeom([1, (1+m)/n], [(1+m+n)/n], -d*x^n/c)/c^2/d^3/e/(1+m)/n
```

Rubi [A] (verified)

Time = 0.41 (sec) , antiderivative size = 267, normalized size of antiderivative = 1.00, number of steps used = 6, number of rules used = 5, $\frac{\text{number of rules}}{\text{integrand size}} = 0.161$, Rules used

= {608, 584, 20, 30, 371}

$$\int \frac{(ex)^m (a + bx^n)^2 (A + Bx^n)}{(c + dx^n)^2} dx =$$

$$\frac{(ex)^{m+1} (bc - ad) \operatorname{Hypergeometric2F1}\left(1, \frac{m+1}{n}, \frac{m+n+1}{n}, -\frac{dx^n}{c}\right) (ad(Bc(m+1) - Ad(m-n+1)) + bc(A - Ad(m-n+1)))}{c^2 d^3 e^{(m+1)n}}$$

$$\frac{b(ex)^{m+1} (2ad(Ad(m+1) - Bc(m+n+1)) - bc(Ad(m+n+1) - Bc(m+2n+1)))}{cd^3 e^{(m+1)n}}$$

$$\frac{(ex)^{m+1} (a + bx^n)^2 (Bc - Ad)}{cd^n (c + dx^n)} - \frac{b^2 x^{n+1} (ex)^m (Ad(m+n+1) - Bc(m+2n+1))}{cd^2 n (m+n+1)}$$

[In] Int[((e*x)^m*(a + b*x^n)^2*(A + B*x^n))/(c + d*x^n)^2,x]

[Out] -((b^2*(A*d*(1 + m + n) - B*c*(1 + m + 2*n))*x^(1 + n)*(e*x)^m)/(c*d^2*n*(1 + m + n))) - (b*(2*a*d*(A*d*(1 + m) - B*c*(1 + m + n)) - b*c*(A*d*(1 + m + n) - B*c*(1 + m + 2*n)))*(e*x)^(1 + m))/(c*d^3*e*(1 + m)*n) - ((B*c - A*d)*(e*x)^(1 + m)*(a + b*x^n)^2)/(c*d*e*n*(c + d*x^n)) - ((b*c - a*d)*(a*d*(B*c*(1 + m) - A*d*(1 + m - n)) + b*c*(A*d*(1 + m + n) - B*c*(1 + m + 2*n)))*(e*x)^(1 + m)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -(d*x^n)/c])/ (c^2*d^3*e*(1 + m)*n)

Rule 20

Int[(u_.)*((a_.)*(v_))^(m_.)*((b_.)*(v_))^(n_.), x_Symbol] := Dist[b^IntPart[n]*((b*v)^FracPart[n]/(a^IntPart[n]*(a*v)^FracPart[n])), Int[u*(a*v)^(m+n), x], x] /; FreeQ[{a, b, m, n}, x] && !IntegerQ[m] && !IntegerQ[n] && !IntegerQ[m+n]

Rule 30

Int[(x_)^(m_.), x_Symbol] := Simp[x^(m+1)/(m+1), x] /; FreeQ[m, x] && N eQ[m, -1]

Rule 371

Int[((c_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_.))^(p_.), x_Symbol] := Simp[a^p *((c*x)^(m+1)/(c*(m+1)))*Hypergeometric2F1[-p, (m+1)/n, (m+1)/n+1, (-b)*(x^n/a)], x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILt Q[p, 0] || GtQ[a, 0])

Rule 584

Int[((g_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_.))^(p_.)*((c_) + (d_.)*(x_)^(n_.))^(q_.)*((e_) + (f_.)*(x_)^(n_.))^(r_.), x_Symbol] := Int[ExpandIntegrand[(g*x)^m*(a + b*x^n)^p*(c + d*x^n)^q*(e + f*x^n)^r, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n}, x] && IGtQ[p, -2] && IGtQ[q, 0] && IGtQ[r, 0]

Rule 608

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Int[((g_.)*(x_))^(m_.)*((a_.) + (b_.)*(x_)^(n_))^(p_.)*((c_.) + (d_.)*(x_)^(n_))^(q_.)*((e_.) + (f_.)*(x_)^(n_)), x_Symbol] := Simp[(-(b*e - a*f))*(g*x)^(m + 1)*(a + b*x^n)^(p + 1)*((c + d*x^n)^q/(a*b*g*n*(p + 1))), x] + Dist[1/(a*b*n*(p + 1)), Int[(g*x)^m*(a + b*x^n)^(p + 1)*(c + d*x^n)^(q - 1)*Simp[c*(b*e*n*(p + 1) + (b*e - a*f)*(m + 1)) + d*(b*e*n*(p + 1) + (b*e - a*f)*(m + n*q + 1))*x^n, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n}, x] && LtQ[p, -1] && GtQ[q, 0] && !(EqQ[q, 1] && SimplerQ[b*c - a*d, b*e - a*f])

```

Rubi steps

$$\begin{aligned}
\text{integral} &= -\frac{(Bc - Ad)(ex)^{1+m} (a + bx^n)^2}{cdn(c + dx^n)} \\
&= -\frac{\int \frac{(ex)^m (a + bx^n) (-a(Bc(1+m) - Ad(1+m-n)) + b(Ad(1+m+n) - Bc(1+m+2n))x^n}{c + dx^n} dx}{cdn} \\
&= -\frac{(Bc - Ad)(ex)^{1+m} (a + bx^n)^2}{cdn(c + dx^n)} \\
&= -\frac{\int \left(\frac{b(2ad(Ad(1+m) - Bc(1+m+n)) - bc(Ad(1+m+n) - Bc(1+m+2n))}{d^2} (ex)^m + \frac{b^2(Ad(1+m+n) - Bc(1+m+2n))x^n (ex)^m}{d} + \frac{b(2ad(Ad(1+m) - Bc(1+m+n)) - bc(Ad(1+m+n) - Bc(1+m+2n))}{d^2} (ex)^m \right) dx}{cdn} \\
&= -\frac{b(2ad(Ad(1+m) - Bc(1+m+n)) - bc(Ad(1+m+n) - Bc(1+m+2n)))(ex)^{1+m}}{cd^3e(1+m)n} \\
&= -\frac{(Bc - Ad)(ex)^{1+m} (a + bx^n)^2}{cdn(c + dx^n)} - \frac{(b^2(Ad(1+m+n) - Bc(1+m+2n))) \int x^n (ex)^m dx}{cd^2n} \\
&= -\frac{((bc - ad)(ad(Bc(1+m) - Ad(1+m-n)) + bc(Ad(1+m+n) - Bc(1+m+2n)))) \int \frac{(ex)^m}{c + dx^n}}{cd^3n} \\
&= -\frac{b(2ad(Ad(1+m) - Bc(1+m+n)) - bc(Ad(1+m+n) - Bc(1+m+2n)))(ex)^{1+m}}{cd^3e(1+m)n} \\
&= -\frac{(Bc - Ad)(ex)^{1+m} (a + bx^n)^2}{cdn(c + dx^n)} \\
&= -\frac{(bc - ad)(ad(Bc(1+m) - Ad(1+m-n)) + bc(Ad(1+m+n) - Bc(1+m+2n)))(ex)^{1+m}}{c^2d^3e(1+m)n} \\
&= -\frac{(b^2(Ad(1+m+n) - Bc(1+m+2n))x^{-m}(ex)^m) \int x^{m+n} dx}{cd^2n}
\end{aligned}$$

$$\begin{aligned}
&= -\frac{b^2(Ad(1+m+n) - Bc(1+m+2n))x^{1+n}(ex)^m}{cd^2n(1+m+n)} \\
&\quad - \frac{b(2ad(Ad(1+m) - Bc(1+m+n)) - bc(Ad(1+m+n) - Bc(1+m+2n)))(ex)^{1+m}}{cd^3e(1+m)n} \\
&\quad - \frac{(Bc - Ad)(ex)^{1+m} (a + bx^n)^2}{cde n (c + dx^n)} \\
&\quad - \frac{(bc - ad)(ad(Bc(1+m) - Ad(1+m-n)) + bc(Ad(1+m+n) - Bc(1+m+2n)))(ex)^{1+m}}{c^2d^3e(1+m)n}
\end{aligned}$$

Mathematica [A] (verified)

Time = 0.52 (sec) , antiderivative size = 161, normalized size of antiderivative = 0.60

$$\int \frac{(ex)^m (a + bx^n)^2 (A + Bx^n)}{(c + dx^n)^2} dx$$

$$= \frac{x(ex)^m \left(\frac{b(-2bBc + Abd + 2aBd)}{1+m} + \frac{b^2Bdx^n}{1+m+n} + \frac{(bc-ad)(3bBc - 2Abd - aBd) \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{dx^n}{c}\right)}{c(1+m)} - \frac{(bc-ad)^2(Bc - Ad)}{c^2} \right)}{d^3}$$

[In] Integrate[((e*x)^m*(a + b*x^n)^2*(A + B*x^n))/(c + d*x^n)^2,x]

[Out] (x*(e*x)^m*((b*(-2*b*B*c + A*b*d + 2*a*B*d))/(1 + m) + (b^2*B*d*x^n)/(1 + m + n) + ((b*c - a*d)*(3*b*B*c - 2*A*b*d - a*B*d)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -((d*x^n)/c)])/(c*(1 + m)) - ((b*c - a*d)^2*(B*c - A*d)*Hypergeometric2F1[2, (1 + m)/n, (1 + m + n)/n, -((d*x^n)/c)]/(c^2*(1 + m))))/d^3

Maple [F]

$$\int \frac{(ex)^m (a + bx^n)^2 (A + Bx^n)}{(c + dx^n)^2} dx$$

[In] int((e*x)^m*(a+b*x^n)^2*(A+B*x^n)/(c+d*x^n)^2,x)

[Out] int((e*x)^m*(a+b*x^n)^2*(A+B*x^n)/(c+d*x^n)^2,x)

Fricas [F]

$$\int \frac{(ex)^m (a + bx^n)^2 (A + Bx^n)}{(c + dx^n)^2} dx = \int \frac{(Bx^n + A)(bx^n + a)^2 (ex)^m}{(dx^n + c)^2} dx$$

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

[Out] integral((B*b^2*x^(3*n) + A*a^2 + (2*B*a*b + A*b^2)*x^(2*n) + (B*a^2 + 2*A*a*b)*x^n)*(e*x)^m/(d^2*x^(2*n) + 2*c*d*x^n + c^2), x)

Sympy [F]

$$\int \frac{(ex)^m (a + bx^n)^2 (A + Bx^n)}{(c + dx^n)^2} dx = \int \frac{(ex)^m (A + Bx^n) (a + bx^n)^2}{(c + dx^n)^2} dx$$

[In] integrate((e*x)**m*(a+b*x**n)**2*(A+B*x**n)/(c+d*x**n)**2,x)

[Out] Integral((e*x)**m*(A + B*x**n)*(a + b*x**n)**2/(c + d*x**n)**2, x)

Maxima [F]

$$\int \frac{(ex)^m (a + bx^n)^2 (A + Bx^n)}{(c + dx^n)^2} dx = \int \frac{(Bx^n + A)(bx^n + a)^2 (ex)^m}{(dx^n + c)^2} dx$$

[In] integrate((e*x)^m*(a+b*x^n)^2*(A+B*x^n)/(c+d*x^n)^2,x, algorithm="maxima")

[Out] -((b^2*c^2*d*e^m*(m + n + 1) + a^2*d^3*e^m*(m - n + 1) - 2*a*b*c*d^2*e^m*(m + 1))*A - (b^2*c^3*e^m*(m + 2*n + 1) - 2*a*b*c^2*d*e^m*(m + n + 1) + a^2*c*d^2*e^m*(m + 1))*B)*integrate(x^m/(c*d^4*n*x^n + c^2*d^3*n), x) + ((m*n + n)*B*b^2*c*d^2*e^m*x*e^(m*log(x) + 2*n*log(x)) + ((m^2 + 2*m*(n + 1) + n^2 + 2*n + 1)*b^2*c^2*d*e^m - 2*(m^2 + m*(n + 2) + n + 1)*a*b*c*d^2*e^m + (m^2 + m*(n + 2) + n + 1)*a^2*d^3*e^m)*A - ((m^2 + m*(3*n + 2) + 2*n^2 + 3*n + 1)*b^2*c^3*e^m - 2*(m^2 + 2*m*(n + 1) + n^2 + 2*n + 1)*a*b*c^2*d*e^m + (m^2 + m*(n + 2) + n + 1)*a^2*c*d^2*e^m)*B)*x*x^m + ((m*n + n^2 + n)*A*b^2*c*d^2*e^m - ((m*n + 2*n^2 + n)*b^2*c^2*d*e^m - 2*(m*n + n^2 + n)*a*b*c*d^2*e^m)*B)*x*e^(m*log(x) + n*log(x)))/((m^2*n + (n^2 + 2*n)*m + n^2 + n)*c*d^4*x^n + (m^2*n + (n^2 + 2*n)*m + n^2 + n)*c^2*d^3)

Giac [F]

$$\int \frac{(ex)^m (a + bx^n)^2 (A + Bx^n)}{(c + dx^n)^2} dx = \int \frac{(Bx^n + A)(bx^n + a)^2 (ex)^m}{(dx^n + c)^2} dx$$

[In] integrate((e*x)^m*(a+b*x^n)^2*(A+B*x^n)/(c+d*x^n)^2,x, algorithm="giac")

[Out] integrate((B*x^n + A)*(b*x^n + a)^2*(e*x)^m/(d*x^n + c)^2, x)

Mupad [F(-1)]

Timed out.

$$\int \frac{(ex)^m (a + bx^n)^2 (A + Bx^n)}{(c + dx^n)^2} dx = \int \frac{(ex)^m (A + Bx^n) (a + bx^n)^2}{(c + dx^n)^2} dx$$

[In] int(((e*x)^m*(A + B*x^n)*(a + b*x^n)^2)/(c + d*x^n)^2,x)

[Out] int(((e*x)^m*(A + B*x^n)*(a + b*x^n)^2)/(c + d*x^n)^2, x)

$$3.31 \quad \int \frac{(ex)^m (a+bx^n)(A+Bx^n)}{(c+dx^n)^2} dx$$

Optimal result	1048
Rubi [A] (verified)	1048
Mathematica [A] (verified)	1050
Maple [F]	1050
Fricas [F]	1050
Sympy [C] (verification not implemented)	1050
Maxima [F]	1054
Giac [F]	1054
Mupad [F(-1)]	1054

Optimal result

Integrand size = 29, antiderivative size = 178

$$\int \frac{(ex)^m (a+bx^n)(A+Bx^n)}{(c+dx^n)^2} dx$$

$$= -\frac{B(ad(1+m) - bc(1+m+n))(ex)^{1+m}}{cd^2e(1+m)n} - \frac{(bc-ad)(ex)^{1+m}(A+Bx^n)}{cden(c+dx^n)}$$

$$+ \frac{(Ad(bc(1+m) - ad(1+m-n)) + Bc(ad(1+m) - bc(1+m+n)))(ex)^{1+m} \text{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{dx^n}{c}\right)}{c^2d^2e(1+m)n}$$

[Out] $-B*(a*d*(1+m)-b*c*(1+m+n))*(e*x)^{(1+m)}/c/d^2/e/(1+m)/n-(-a*d+b*c)*(e*x)^{(1+m)*(A+B*x^n)}/c/d/e/n/(c+d*x^n)+(A*d*(b*c*(1+m)-a*d*(1+m-n))+B*c*(a*d*(1+m)-b*c*(1+m+n))*(e*x)^{(1+m)*hypergeom([1, (1+m)/n], [(1+m+n)/n], -d*x^n/c)}/c^2/d^2/e/(1+m)/n$

Rubi [A] (verified)

Time = 0.16 (sec) , antiderivative size = 178, normalized size of antiderivative = 1.00, number of steps used = 3, number of rules used = 3, $\frac{\text{number of rules}}{\text{integrand size}} = 0.103$, Rules used = {608, 470, 371}

$$\int \frac{(ex)^m (a+bx^n)(A+Bx^n)}{(c+dx^n)^2} dx$$

$$= \frac{(ex)^{m+1} \text{Hypergeometric2F1}\left(1, \frac{m+1}{n}, \frac{m+n+1}{n}, -\frac{dx^n}{c}\right) (Ad(bc(m+1) - ad(m-n+1)) + Bc(ad(m+1) - bc(m+n+1)))}{c^2d^2e(m+1)n}$$

$$- \frac{(ex)^{m+1}(bc-ad)(A+Bx^n)}{cden(c+dx^n)} - \frac{B(ex)^{m+1}(ad(m+1) - bc(m+n+1))}{cd^2e(m+1)n}$$

[In] $\text{Int}[(e*x)^m*(a + b*x^n)*(A + B*x^n)/(c + d*x^n)^2, x]$

[Out] $-\left(\frac{(B(a*d*(1+m) - b*c*(1+m+n))*(e*x)^{(1+m)})/(c*d^2*e*(1+m)*n)}{((b*c - a*d)*(e*x)^{(1+m)}*(A + B*x^n))/(c*d*e*n*(c + d*x^n)) + ((A*d*(b*c*(1+m) - a*d*(1+m-n)) + B*c*(a*d*(1+m) - b*c*(1+m+n)))*(e*x)^{(1+m)}*Hypergeometric2F1[1, (1+m)/n, (1+m+n)/n, -(d*x^n)/c])/(c^2*d^2*e*(1+m)*n)}\right)$

Rule 371

Int[((c_)*(x_)^(m_))*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] :> Simp[a^p * ((c*x)^(m+1)/(c*(m+1)))*Hypergeometric2F1[-p, (m+1)/n, (m+1)/n+1, (-b)*(x^n/a)], x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILtQ[p, 0] || GtQ[a, 0])

Rule 470

Int[((e_)*(x_)^(m_))*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_)), x_Symbol] :> Simp[d*(e*x)^(m+1)*((a + b*x^n)^(p+1)/(b*e*(m+n*(p+1)+1))), x] - Dist[(a*d*(m+1) - b*c*(m+n*(p+1)+1))/(b*(m+n*(p+1)+1)), Int[(e*x)^m*(a + b*x^n)^p, x], x] /; FreeQ[{a, b, c, d, e, m, n, p}, x] && NeQ[b*c - a*d, 0] && NeQ[m + n*(p+1) + 1, 0]

Rule 608

Int[((g_)*(x_)^(m_))*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_)*((e_) + (f_)*(x_)^(n_)), x_Symbol] :> Simp[(-b*e - a*f)*(g*x)^(m+1)*(a + b*x^n)^(p+1)*((c + d*x^n)^q/(a*b*g*n*(p+1))), x] + Dist[1/(a*b*n*(p+1)), Int[(g*x)^m*(a + b*x^n)^(p+1)*(c + d*x^n)^(q-1)*Simp[c*(b*e*n*(p+1) + (b*e - a*f)*(m+1)) + d*(b*e*n*(p+1) + (b*e - a*f)*(m+n*q+1))*x^n, x], x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n}, x] && LtQ[p, -1] && GtQ[q, 0] && !(EqQ[q, 1] && SimplerQ[b*c - a*d, b*e - a*f])

Rubi steps

$$\begin{aligned} \text{integral} &= -\frac{(bc - ad)(ex)^{1+m} (A + Bx^n)}{cdn(c + dx^n)} \\ &\quad - \frac{\int \frac{(ex)^m(-A(bc(1+m) - ad(1+m-n)) + B(ad(1+m) - bc(1+m+n))x^n)}{c+dx^n} dx}{cdn} \\ &= -\frac{B(ad(1+m) - bc(1+m+n))(ex)^{1+m}}{cd^2e(1+m)n} - \frac{(bc - ad)(ex)^{1+m} (A + Bx^n)}{cdn(c + dx^n)} \\ &\quad + \frac{(Ad(bc(1+m) - ad(1+m-n)) + Bc(ad(1+m) - bc(1+m+n))) \int \frac{(ex)^m}{c+dx^n} dx}{cd^2n} \\ &= -\frac{B(ad(1+m) - bc(1+m+n))(ex)^{1+m}}{cd^2e(1+m)n} - \frac{(bc - ad)(ex)^{1+m} (A + Bx^n)}{cdn(c + dx^n)} \\ &\quad + \frac{(Ad(bc(1+m) - ad(1+m-n)) + Bc(ad(1+m) - bc(1+m+n)))(ex)^{1+m} {}_2F_1\left(1, \frac{1+m}{n}; \frac{1+m}{n}\right)}{c^2d^2e(1+m)n} \end{aligned}$$

Mathematica [A] (verified)

Time = 0.27 (sec) , antiderivative size = 110, normalized size of antiderivative = 0.62

$$\int \frac{(ex)^m (a + bx^n) (A + Bx^n)}{(c + dx^n)^2} dx$$

$$= \frac{x(ex)^m (bBc^2 + c(-2bBc + Abd + aBd) \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{dx^n}{c}\right) + (bc - ad)(Bc - Ad)}{c^2 d^2 (1+m)}$$

[In] Integrate[((e*x)^m*(a + b*x^n)*(A + B*x^n))/(c + d*x^n)^2,x]

[Out] (x*(e*x)^m*(b*B*c^2 + c*(-2*b*B*c + A*b*d + a*B*d)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -((d*x^n)/c)] + (b*c - a*d)*(B*c - A*d)*Hypergeometric2F1[2, (1 + m)/n, (1 + m + n)/n, -((d*x^n)/c)])/(c^2*d^2*(1 + m))

Maple [F]

$$\int \frac{(ex)^m (a + bx^n) (A + Bx^n)}{(c + dx^n)^2} dx$$

[In] int((e*x)^m*(a+b*x^n)*(A+B*x^n)/(c+d*x^n)^2,x)

[Out] int((e*x)^m*(a+b*x^n)*(A+B*x^n)/(c+d*x^n)^2,x)

Fricas [F]

$$\int \frac{(ex)^m (a + bx^n) (A + Bx^n)}{(c + dx^n)^2} dx = \int \frac{(Bx^n + A)(bx^n + a)(ex)^m}{(dx^n + c)^2} dx$$

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

[Out] integral((B*b*x^(2*n) + A*a + (B*a + A*b)*x^n)*(e*x)^m/(d^2*x^(2*n) + 2*c*d*x^n + c^2), x)

Sympy [C] (verification not implemented)

Result contains complex when optimal does not.

Time = 25.68 (sec) , antiderivative size = 5176, normalized size of antiderivative = 29.08

$$\int \frac{(ex)^m (a + bx^n) (A + Bx^n)}{(c + dx^n)^2} dx = \text{Too large to display}$$

[In] integrate((e*x)**m*(a+b*x**n)*(A+B*x**n)/(c+d*x**n)**2,x)

```

[Out] A*a*(-c*c**(m/n + 1/n)*c**(-m/n - 2 - 1/n)*e**m*m**2*x**(m + 1)*lerchphi(d*
x**n*exp_polar(I*pi)/c, 1, m/n + 1/n)*gamma(m/n + 1/n)/(c*n**3*gamma(m/n +
1 + 1/n) + d*n**3*x**n*gamma(m/n + 1 + 1/n)) + c*c**(m/n + 1/n)*c**(-m/n -
2 - 1/n)*e**m*m*n*x**(m + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1/
n)*gamma(m/n + 1/n)/(c*n**3*gamma(m/n + 1 + 1/n) + d*n**3*x**n*gamma(m/n +
1 + 1/n)) + c*c**(m/n + 1/n)*c**(-m/n - 2 - 1/n)*e**m*m*n*x**(m + 1)*gamma(
m/n + 1/n)/(c*n**3*gamma(m/n + 1 + 1/n) + d*n**3*x**n*gamma(m/n + 1 + 1/n))
- 2*c*c**(m/n + 1/n)*c**(-m/n - 2 - 1/n)*e**m*m*x**(m + 1)*lerchphi(d*x**n
*exp_polar(I*pi)/c, 1, m/n + 1/n)*gamma(m/n + 1/n)/(c*n**3*gamma(m/n + 1 +
1/n) + d*n**3*x**n*gamma(m/n + 1 + 1/n)) + c*c**(m/n + 1/n)*c**(-m/n - 2 -
1/n)*e**m*n*x**(m + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1/n)*gam
ma(m/n + 1/n)/(c*n**3*gamma(m/n + 1 + 1/n) + d*n**3*x**n*gamma(m/n + 1 + 1/
n)) + c*c**(m/n + 1/n)*c**(-m/n - 2 - 1/n)*e**m*n*x**(m + 1)*gamma(m/n + 1/
n)/(c*n**3*gamma(m/n + 1 + 1/n) + d*n**3*x**n*gamma(m/n + 1 + 1/n)) - c*c**
(m/n + 1/n)*c**(-m/n - 2 - 1/n)*e**m*x**(m + 1)*lerchphi(d*x**n*exp_polar(I
*pi)/c, 1, m/n + 1/n)*gamma(m/n + 1/n)/(c*n**3*gamma(m/n + 1 + 1/n) + d*n**
3*x**n*gamma(m/n + 1 + 1/n)) - c**(m/n + 1/n)*c**(-m/n - 2 - 1/n)*d*e**m*m*
*2*x**n*x**(m + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1/n)*gamma(m
/n + 1/n)/(c*n**3*gamma(m/n + 1 + 1/n) + d*n**3*x**n*gamma(m/n + 1 + 1/n))
+ c**(m/n + 1/n)*c**(-m/n - 2 - 1/n)*d*e**m*m*n*x**n*x**(m + 1)*lerchphi(d*
x**n*exp_polar(I*pi)/c, 1, m/n + 1/n)*gamma(m/n + 1/n)/(c*n**3*gamma(m/n +
1 + 1/n) + d*n**3*x**n*gamma(m/n + 1 + 1/n)) - 2*c**(m/n + 1/n)*c**(-m/n -
2 - 1/n)*d*e**m*m*x**n*x**(m + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n
+ 1/n)*gamma(m/n + 1/n)/(c*n**3*gamma(m/n + 1 + 1/n) + d*n**3*x**n*gamma(m
/n + 1 + 1/n)) + c**(m/n + 1/n)*c**(-m/n - 2 - 1/n)*d*e**m*n*x**n*x**(m + 1
)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1/n)*gamma(m/n + 1/n)/(c*n**3
*gamma(m/n + 1 + 1/n) + d*n**3*x**n*gamma(m/n + 1 + 1/n)) - c**(m/n + 1/n)*
c**(-m/n - 2 - 1/n)*d*e**m*x**n*x**(m + 1)*lerchphi(d*x**n*exp_polar(I*pi)/
c, 1, m/n + 1/n)*gamma(m/n + 1/n)/(c*n**3*gamma(m/n + 1 + 1/n) + d*n**3*x**
n*gamma(m/n + 1 + 1/n))) + A*b*(-c*c**(-m/n - 3 - 1/n)*c**(m/n + 1 + 1/n)*e
**m*m**2*x**(m + n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1 + 1/n
)*gamma(m/n + 1 + 1/n)/(c*n**3*gamma(m/n + 2 + 1/n) + d*n**3*x**n*gamma(m/n
+ 2 + 1/n)) - c*c**(-m/n - 3 - 1/n)*c**(m/n + 1 + 1/n)*e**m*m*n*x**(m + n
+ 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1 + 1/n)*gamma(m/n + 1 + 1
/n)/(c*n**3*gamma(m/n + 2 + 1/n) + d*n**3*x**n*gamma(m/n + 2 + 1/n)) + c*c*
*(-m/n - 3 - 1/n)*c**(m/n + 1 + 1/n)*e**m*m*n*x**(m + n + 1)*gamma(m/n + 1
+ 1/n)/(c*n**3*gamma(m/n + 2 + 1/n) + d*n**3*x**n*gamma(m/n + 2 + 1/n)) - 2
*c*c**(-m/n - 3 - 1/n)*c**(m/n + 1 + 1/n)*e**m*m*x**(m + n + 1)*lerchphi(d*
x**n*exp_polar(I*pi)/c, 1, m/n + 1 + 1/n)*gamma(m/n + 1 + 1/n)/(c*n**3*gamm
a(m/n + 2 + 1/n) + d*n**3*x**n*gamma(m/n + 2 + 1/n)) + c*c**(-m/n - 3 - 1/n
)*c**(m/n + 1 + 1/n)*e**m*n**2*x**(m + n + 1)*gamma(m/n + 1 + 1/n)/(c*n**3*
gamma(m/n + 2 + 1/n) + d*n**3*x**n*gamma(m/n + 2 + 1/n)) - c*c**(-m/n - 3 -
1/n)*c**(m/n + 1 + 1/n)*e**m*n*x**(m + n + 1)*lerchphi(d*x**n*exp_polar(I*
pi)/c, 1, m/n + 1 + 1/n)*gamma(m/n + 1 + 1/n)/(c*n**3*gamma(m/n + 2 + 1/n)
+ d*n**3*x**n*gamma(m/n + 2 + 1/n)) + c*c**(-m/n - 3 - 1/n)*c**(m/n + 1 + 1

```


$$\begin{aligned}
& I\pi)/c, 1, m/n + 1 + 1/n) * \text{gamma}(m/n + 1 + 1/n) / (c * n^{**3} * \text{gamma}(m/n + 2 + 1/n) \\
&) + d * n^{**3} * x^{**n} * \text{gamma}(m/n + 2 + 1/n)) - c^{**}(-m/n - 3 - 1/n) * c^{**}(m/n + 1 + 1 \\
& /n) * d * e^{**m} * n * x^{**n} * x^{**}(m + n + 1) * \text{lerchphi}(d * x^{**n} * \text{exp_polar}(I\pi)/c, 1, m/n \\
& + 1 + 1/n) * \text{gamma}(m/n + 1 + 1/n) / (c * n^{**3} * \text{gamma}(m/n + 2 + 1/n) + d * n^{**3} * x^{**n} * \\
& \text{gamma}(m/n + 2 + 1/n)) - c^{**}(-m/n - 3 - 1/n) * c^{**}(m/n + 1 + 1/n) * d * e^{**m} * x^{**n} * \\
& x^{**}(m + n + 1) * \text{lerchphi}(d * x^{**n} * \text{exp_polar}(I\pi)/c, 1, m/n + 1 + 1/n) * \text{gamma}(m \\
& /n + 1 + 1/n) / (c * n^{**3} * \text{gamma}(m/n + 2 + 1/n) + d * n^{**3} * x^{**n} * \text{gamma}(m/n + 2 + 1/ \\
& n))) + B * b * (-c * c^{**}(-m/n - 4 - 1/n) * c^{**}(m/n + 2 + 1/n) * e^{**m} * m^{**2} * x^{**}(m + 2 * n \\
& + 1) * \text{lerchphi}(d * x^{**n} * \text{exp_polar}(I\pi)/c, 1, m/n + 2 + 1/n) * \text{gamma}(m/n + 2 + \\
& 1/n) / (c * n^{**3} * \text{gamma}(m/n + 3 + 1/n) + d * n^{**3} * x^{**n} * \text{gamma}(m/n + 3 + 1/n)) - 3 * c \\
& * c^{**}(-m/n - 4 - 1/n) * c^{**}(m/n + 2 + 1/n) * e^{**m} * m * n * x^{**}(m + 2 * n + 1) * \text{lerchphi}(\\
& d * x^{**n} * \text{exp_polar}(I\pi)/c, 1, m/n + 2 + 1/n) * \text{gamma}(m/n + 2 + 1/n) / (c * n^{**3} * \text{ga} \\
& mma(m/n + 3 + 1/n) + d * n^{**3} * x^{**n} * \text{gamma}(m/n + 3 + 1/n)) + c * c^{**}(-m/n - 4 - 1 \\
& /n) * c^{**}(m/n + 2 + 1/n) * e^{**m} * m * n * x^{**}(m + 2 * n + 1) * \text{gamma}(m/n + 2 + 1/n) / (c * n * \\
& **3 * \text{gamma}(m/n + 3 + 1/n) + d * n^{**3} * x^{**n} * \text{gamma}(m/n + 3 + 1/n)) - 2 * c * c^{**}(-m/n \\
& - 4 - 1/n) * c^{**}(m/n + 2 + 1/n) * e^{**m} * m * x^{**}(m + 2 * n + 1) * \text{lerchphi}(d * x^{**n} * \text{exp_p} \\
& olar(I\pi)/c, 1, m/n + 2 + 1/n) * \text{gamma}(m/n + 2 + 1/n) / (c * n^{**3} * \text{gamma}(m/n + 3 \\
& + 1/n) + d * n^{**3} * x^{**n} * \text{gamma}(m/n + 3 + 1/n)) - 2 * c * c^{**}(-m/n - 4 - 1/n) * c^{**}(m/ \\
& n + 2 + 1/n) * e^{**m} * n^{**2} * x^{**}(m + 2 * n + 1) * \text{lerchphi}(d * x^{**n} * \text{exp_polar}(I\pi)/c, \\
& 1, m/n + 2 + 1/n) * \text{gamma}(m/n + 2 + 1/n) / (c * n^{**3} * \text{gamma}(m/n + 3 + 1/n) + d * n^{**} \\
& 3 * x^{**n} * \text{gamma}(m/n + 3 + 1/n)) + 2 * c * c^{**}(-m/n - 4 - 1/n) * c^{**}(m/n + 2 + 1/n) * e \\
& **m * n^{**2} * x^{**}(m + 2 * n + 1) * \text{gamma}(m/n + 2 + 1/n) / (c * n^{**3} * \text{gamma}(m/n + 3 + 1/n) \\
& + d * n^{**3} * x^{**n} * \text{gamma}(m/n + 3 + 1/n)) - 3 * c * c^{**}(-m/n - 4 - 1/n) * c^{**}(m/n + 2 \\
& + 1/n) * e^{**m} * n * x^{**}(m + 2 * n + 1) * \text{lerchphi}(d * x^{**n} * \text{exp_polar}(I\pi)/c, 1, m/n + \\
& 2 + 1/n) * \text{gamma}(m/n + 2 + 1/n) / (c * n^{**3} * \text{gamma}(m/n + 3 + 1/n) + d * n^{**3} * x^{**n} * \text{ga} \\
& mma(m/n + 3 + 1/n)) + c * c^{**}(-m/n - 4 - 1/n) * c^{**}(m/n + 2 + 1/n) * e^{**m} * n * x^{**}(m \\
& + 2 * n + 1) * \text{gamma}(m/n + 2 + 1/n) / (c * n^{**3} * \text{gamma}(m/n + 3 + 1/n) + d * n^{**3} * x^{**n} \\
& * \text{gamma}(m/n + 3 + 1/n)) - c * c^{**}(-m/n - 4 - 1/n) * c^{**}(m/n + 2 + 1/n) * e^{**m} * x^{**}(\\
& m + 2 * n + 1) * \text{lerchphi}(d * x^{**n} * \text{exp_polar}(I\pi)/c, 1, m/n + 2 + 1/n) * \text{gamma}(m/n \\
& + 2 + 1/n) / (c * n^{**3} * \text{gamma}(m/n + 3 + 1/n) + d * n^{**3} * x^{**n} * \text{gamma}(m/n + 3 + 1/n) \\
&) - c^{**}(-m/n - 4 - 1/n) * c^{**}(m/n + 2 + 1/n) * d * e^{**m} * m^{**2} * x^{**n} * x^{**}(m + 2 * n + 1 \\
&) * \text{lerchphi}(d * x^{**n} * \text{exp_polar}(I\pi)/c, 1, m/n + 2 + 1/n) * \text{gamma}(m/n + 2 + 1/n) \\
& / (c * n^{**3} * \text{gamma}(m/n + 3 + 1/n) + d * n^{**3} * x^{**n} * \text{gamma}(m/n + 3 + 1/n)) - 3 * c^{**}(- \\
& m/n - 4 - 1/n) * c^{**}(m/n + 2 + 1/n) * d * e^{**m} * m * n * x^{**n} * x^{**}(m + 2 * n + 1) * \text{lerchphi} \\
& (d * x^{**n} * \text{exp_polar}(I\pi)/c, 1, m/n + 2 + 1/n) * \text{gamma}(m/n + 2 + 1/n) / (c * n^{**3} * \text{g} \\
& amma(m/n + 3 + 1/n) + d * n^{**3} * x^{**n} * \text{gamma}(m/n + 3 + 1/n)) - 2 * c^{**}(-m/n - 4 - \\
& 1/n) * c^{**}(m/n + 2 + 1/n) * d * e^{**m} * m * x^{**n} * x^{**}(m + 2 * n + 1) * \text{lerchphi}(d * x^{**n} * \text{exp_} \\
& polar(I\pi)/c, 1, m/n + 2 + 1/n) * \text{gamma}(m/n + 2 + 1/n) / (c * n^{**3} * \text{gamma}(m/n + 3 \\
& + 1/n) + d * n^{**3} * x^{**n} * \text{gamma}(m/n + 3 + 1/n)) - 2 * c^{**}(-m/n - 4 - 1/n) * c^{**}(m/n \\
& + 2 + 1/n) * d * e^{**m} * n^{**2} * x^{**n} * x^{**}(m + 2 * n + 1) * \text{lerchphi}(d * x^{**n} * \text{exp_polar}(I\pi) \\
& i)/c, 1, m/n + 2 + 1/n) * \text{gamma}(m/n + 2 + 1/n) / (c * n^{**3} * \text{gamma}(m/n + 3 + 1/n) + \\
& d * n^{**3} * x^{**n} * \text{gamma}(m/n + 3 + 1/n)) - 3 * c^{**}(-m/n - 4 - 1/n) * c^{**}(m/n + 2 + 1/ \\
& n) * d * e^{**m} * n * x^{**n} * x^{**}(m + 2 * n + 1) * \text{lerchphi}(d * x^{**n} * \text{exp_polar}(I\pi)/c, 1, m/n \\
& + 2 + 1/n) * \text{gamma}(m/n + 2 + 1/n) / (c * n^{**3} * \text{gamma}(m/n + 3 + 1/n) + d * n^{**3} * x^{**n} \\
& * \text{gamma}(m/n + 3 + 1/n)) - c^{**}(-m/n - 4 - 1/n) * c^{**}(m/n + 2 + 1/n) * d * e^{**m} * x^{**n}
\end{aligned}$$

```
*x**(m + 2*n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 2 + 1/n)*gamma
a(m/n + 2 + 1/n)/(c*n**3*gamma(m/n + 3 + 1/n) + d*n**3*x**n*gamma(m/n + 3 +
1/n))
```

Maxima [F]

$$\int \frac{(ex)^m (a + bx^n) (A + Bx^n)}{(c + dx^n)^2} dx = \int \frac{(Bx^n + A)(bx^n + a)(ex)^m}{(dx^n + c)^2} dx$$

```
[In] integrate((e*x)^m*(a+b*x^n)*(A+B*x^n)/(c+d*x^n)^2,x, algorithm="maxima")
```

```
[Out] -((a*d^2*e^m*(m - n + 1) - b*c*d*e^m*(m + 1))*A + (b*c^2*e^m*(m + n + 1) -
a*c*d*e^m*(m + 1))*B)*integrate(x^m/(c*d^3*n*x^n + c^2*d^2*n), x) + (B*b*c*
d*e^m*n*x^e^(m*log(x) + n*log(x)) - ((b*c*d*e^m*(m + 1) - a*d^2*e^m*(m + 1)
)*A - (b*c^2*e^m*(m + n + 1) - a*c*d*e^m*(m + 1))*B)*x*x^m)/((m*n + n)*c*d^
3*x^n + (m*n + n)*c^2*d^2)
```

Giac [F]

$$\int \frac{(ex)^m (a + bx^n) (A + Bx^n)}{(c + dx^n)^2} dx = \int \frac{(Bx^n + A)(bx^n + a)(ex)^m}{(dx^n + c)^2} dx$$

```
[In] integrate((e*x)^m*(a+b*x^n)*(A+B*x^n)/(c+d*x^n)^2,x, algorithm="giac")
```

```
[Out] integrate((B*x^n + A)*(b*x^n + a)*(e*x)^m/(d*x^n + c)^2, x)
```

Mupad [F(-1)]

Timed out.

$$\int \frac{(ex)^m (a + bx^n) (A + Bx^n)}{(c + dx^n)^2} dx = \int \frac{(ex)^m (A + Bx^n) (a + bx^n)}{(c + dx^n)^2} dx$$

```
[In] int(((e*x)^m*(A + B*x^n)*(a + b*x^n))/(c + d*x^n)^2,x)
```

```
[Out] int(((e*x)^m*(A + B*x^n)*(a + b*x^n))/(c + d*x^n)^2, x)
```

$$3.32 \quad \int \frac{(ex)^m (A+Bx^n)}{(c+dx^n)^2} dx$$

Optimal result	1055
Rubi [A] (verified)	1055
Mathematica [A] (verified)	1056
Maple [F]	1057
Fricas [F]	1057
Sympy [C] (verification not implemented)	1057
Maxima [F]	1059
Giac [F]	1059
Mupad [F(-1)]	1059

Optimal result

Integrand size = 22, antiderivative size = 107

$$\begin{aligned} & \int \frac{(ex)^m (A + Bx^n)}{(c + dx^n)^2} dx \\ &= -\frac{(Bc - Ad)(ex)^{1+m}}{cde n (c + dx^n)} \\ & \quad + \frac{(Bc(1+m) - Ad(1+m-n))(ex)^{1+m} \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{dx^n}{c}\right)}{c^2 de (1+m)n} \end{aligned}$$

[Out] $-(-A*d+B*c)*(e*x)^{(1+m)}/c/d/e/n/(c+d*x^n)+(B*c*(1+m)-A*d*(1+m-n))*(e*x)^{(1+m)*\operatorname{hypergeom}([1, (1+m)/n], [(1+m+n)/n], -d*x^n/c)/c^2/d/e/(1+m)/n$

Rubi [A] (verified)

Time = 0.04 (sec) , antiderivative size = 107, normalized size of antiderivative = 1.00, number of steps used = 2, number of rules used = 2, $\frac{\text{number of rules}}{\text{integrand size}} = 0.091$, Rules used = {468, 371}

$$\begin{aligned} & \int \frac{(ex)^m (A + Bx^n)}{(c + dx^n)^2} dx \\ &= \frac{(ex)^{m+1} (Bc(m+1) - Ad(m-n+1)) \operatorname{Hypergeometric2F1}\left(1, \frac{m+1}{n}, \frac{m+n+1}{n}, -\frac{dx^n}{c}\right)}{c^2 de (m+1)n} \\ & \quad - \frac{(ex)^{m+1} (Bc - Ad)}{cde n (c + dx^n)} \end{aligned}$$

[In] $\operatorname{Int}[(e*x)^m*(A + B*x^n)/(c + d*x^n)^2, x]$

```
[Out] -(((B*c - A*d)*(e*x)^(1 + m))/(c*d*e*n*(c + d*x^n))) + ((B*c*(1 + m) - A*d*(1 + m - n))*(e*x)^(1 + m)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -((d*x^n)/c)]/(c^2*d*e*(1 + m)*n)
```

Rule 371

```
Int[((c_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_), x_Symbol] := Simp[a^p*((c*x)^(m + 1)/(c*(m + 1)))*Hypergeometric2F1[-p, (m + 1)/n, (m + 1)/n + 1, (-b)*(x^n/a)], x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILtQ[p, 0] || GtQ[a, 0])
```

Rule 468

```
Int[((e_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_.)*((c_) + (d_.)*(x_)^(n_)), x_Symbol] := Simp[(-b*c - a*d)*(e*x)^(m + 1)*((a + b*x^n)^(p + 1)/(a*b*e*n*(p + 1))), x] - Dist[(a*d*(m + 1) - b*c*(m + n*(p + 1) + 1))/(a*b*n*(p + 1)), Int[(e*x)^m*(a + b*x^n)^(p + 1), x], x] /; FreeQ[{a, b, c, d, e, m, n}, x] && NeQ[b*c - a*d, 0] && LtQ[p, -1] && (( !IntegerQ[p + 1/2] && NeQ[p, -5/4]) || !RationalQ[m] || (IGtQ[n, 0] && ILtQ[p + 1/2, 0] && LeQ[-1, m, (-n)*(p + 1)]))
```

Rubi steps

$$\begin{aligned} \text{integral} &= -\frac{(Bc - Ad)(ex)^{1+m}}{cde n(c + dx^n)} + \frac{(Bc(1 + m) - Ad(1 + m - n)) \int \frac{(ex)^m}{c + dx^n} dx}{cdn} \\ &= -\frac{(Bc - Ad)(ex)^{1+m}}{cde n(c + dx^n)} + \frac{(Bc(1 + m) - Ad(1 + m - n))(ex)^{1+m} {}_2F_1\left(1, \frac{1+m}{n}; \frac{1+m+n}{n}; -\frac{dx^n}{c}\right)}{c^2de(1 + m)n} \end{aligned}$$

Mathematica [A] (verified)

Time = 0.14 (sec) , antiderivative size = 83, normalized size of antiderivative = 0.78

$$\begin{aligned} &\int \frac{(ex)^m (A + Bx^n)}{(c + dx^n)^2} dx \\ &= \frac{x(ex)^m (Bc \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{dx^n}{c}\right) + (-Bc + Ad) \operatorname{Hypergeometric2F1}\left(2, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{dx^n}{c}\right))}{c^2d(1 + m)} \end{aligned}$$

```
[In] Integrate[((e*x)^m*(A + B*x^n))/(c + d*x^n)^2,x]
```

```
[Out] (x*(e*x)^m*(B*c*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -((d*x^n)/c)] + (-B*c) + A*d)*Hypergeometric2F1[2, (1 + m)/n, (1 + m + n)/n, -((d*x^n)/c)]/(c^2*d*(1 + m))
```


Maple [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(c + dx^n)^2} dx$$

[In] int((e*x)^m*(A+B*x^n)/(c+d*x^n)^2,x)

[Out] int((e*x)^m*(A+B*x^n)/(c+d*x^n)^2,x)

Fricas [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(c + dx^n)^2} dx = \int \frac{(Bx^n + A)(ex)^m}{(dx^n + c)^2} dx$$

[In] integrate((e*x)^m*(A+B*x^n)/(c+d*x^n)^2,x, algorithm="fricas")

[Out] integral((B*x^n + A)*(e*x)^m/(d^2*x^(2*n) + 2*c*d*x^n + c^2), x)

Sympy [C] (verification not implemented)

Result contains complex when optimal does not.

Time = 8.80 (sec) , antiderivative size = 2382, normalized size of antiderivative = 22.26

$$\int \frac{(ex)^m (A + Bx^n)}{(c + dx^n)^2} dx = \text{Too large to display}$$

[In] integrate((e*x)**m*(A+B*x**n)/(c+d*x**n)**2,x)

[Out] A*(-c*c**(m/n + 1/n)*c**(-m/n - 2 - 1/n)*e**m*m**2*x**(m + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1/n)*gamma(m/n + 1/n)/(c*n**3*gamma(m/n + 1 + 1/n) + d*n**3*x**n*gamma(m/n + 1 + 1/n)) + c*c**(m/n + 1/n)*c**(-m/n - 2 - 1/n)*e**m*m*n*x**(m + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1/n)*gamma(m/n + 1/n)/(c*n**3*gamma(m/n + 1 + 1/n) + d*n**3*x**n*gamma(m/n + 1 + 1/n)) + c*c**(m/n + 1/n)*c**(-m/n - 2 - 1/n)*e**m*m*n*x**(m + 1)*gamma(m/n + 1/n)/(c*n**3*gamma(m/n + 1 + 1/n) + d*n**3*x**n*gamma(m/n + 1 + 1/n)) - 2*c*c**(m/n + 1/n)*c**(-m/n - 2 - 1/n)*e**m*m*x**(m + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1/n)*gamma(m/n + 1/n)/(c*n**3*gamma(m/n + 1 + 1/n) + d*n**3*x**n*gamma(m/n + 1 + 1/n)) + c*c**(m/n + 1/n)*c**(-m/n - 2 - 1/n)*e**m*n*x**(m + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1/n)*gamma(m/n + 1/n)/(c*n**3*gamma(m/n + 1 + 1/n) + d*n**3*x**n*gamma(m/n + 1 + 1/n)) + c*c**(m/n + 1/n)*c**(-m/n - 2 - 1/n)*e**m*n*x**(m + 1)*gamma(m/n + 1/n)/(c*n**3*gamma(m/n + 1 + 1/n) + d*n**3*x**n*gamma(m/n + 1 + 1/n)) - c*c**(m/n + 1/n)*c**(-m/n - 2 - 1/n)*e**m*x**(m + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1/n)*gamma(m/n + 1/n)/(c*n**3*gamma(m/n + 1 + 1/n) + d*n**3*

$$\begin{aligned}
& x^{*n} \gamma(m/n + 1 + 1/n) - c^{*} (m/n + 1/n) c^{*} (-m/n - 2 - 1/n) d^{*} e^{*m} m^{*2} \\
& x^{*n} x^{*} (m + 1) \operatorname{lerchphi}(d^{*} x^{*n} \exp_{\text{polar}}(I \pi) / c, 1, m/n + 1/n) \gamma(m/n \\
& + 1/n) / (c^{*n} \gamma(m/n + 1 + 1/n) + d^{*n} \gamma(m/n + 1 + 1/n)) + \\
& c^{*} (m/n + 1/n) c^{*} (-m/n - 2 - 1/n) d^{*} e^{*m} m^{*n} x^{*n} x^{*} (m + 1) \operatorname{lerchphi}(d^{*} x^{*} \\
& *n \exp_{\text{polar}}(I \pi) / c, 1, m/n + 1/n) \gamma(m/n + 1/n) / (c^{*n} \gamma(m/n + 1 \\
& + 1/n) + d^{*n} \gamma(m/n + 1 + 1/n)) - 2 c^{*} (m/n + 1/n) c^{*} (-m/n - 2 \\
& - 1/n) d^{*} e^{*m} m^{*} x^{*n} x^{*} (m + 1) \operatorname{lerchphi}(d^{*} x^{*n} \exp_{\text{polar}}(I \pi) / c, 1, m/n + \\
& 1/n) \gamma(m/n + 1/n) / (c^{*n} \gamma(m/n + 1 + 1/n) + d^{*n} \gamma(m/n + 1 + 1/n)) + c^{*} (m/n + 1/n) c^{*} (-m/n - 2 - 1/n) d^{*} e^{*m} m^{*} x^{*n} x^{*} (m + 1) \\
& \operatorname{lerchphi}(d^{*} x^{*n} \exp_{\text{polar}}(I \pi) / c, 1, m/n + 1/n) \gamma(m/n + 1/n) / (c^{*n} \gamma \\
& \text{amma}(m/n + 1 + 1/n) + d^{*n} \gamma(m/n + 1 + 1/n)) - c^{*} (m/n + 1/n) c^{*} \\
& (-m/n - 2 - 1/n) d^{*} e^{*m} m^{*} x^{*n} x^{*} (m + 1) \operatorname{lerchphi}(d^{*} x^{*n} \exp_{\text{polar}}(I \pi) / c, \\
& 1, m/n + 1/n) \gamma(m/n + 1/n) / (c^{*n} \gamma(m/n + 1 + 1/n) + d^{*n} \gamma(m/n + 1 + 1/n) \\
& \gamma(m/n + 1 + 1/n)) + B (-c^{*} (-m/n - 3 - 1/n) c^{*} (m/n + 1 + 1/n) e^{*m} m^{*} \\
& m^{*2} x^{*} (m + n + 1) \operatorname{lerchphi}(d^{*} x^{*n} \exp_{\text{polar}}(I \pi) / c, 1, m/n + 1 + 1/n) \gamma \\
& \text{mma}(m/n + 1 + 1/n) / (c^{*n} \gamma(m/n + 2 + 1/n) + d^{*n} \gamma(m/n + 2 \\
& + 1/n)) - c^{*} (-m/n - 3 - 1/n) c^{*} (m/n + 1 + 1/n) e^{*m} m^{*n} x^{*} (m + n + 1) \\
& * \operatorname{lerchphi}(d^{*} x^{*n} \exp_{\text{polar}}(I \pi) / c, 1, m/n + 1 + 1/n) \gamma(m/n + 1 + 1/n) / \\
& (c^{*n} \gamma(m/n + 2 + 1/n) + d^{*n} \gamma(m/n + 2 + 1/n)) + c^{*} (-m \\
& /n - 3 - 1/n) c^{*} (m/n + 1 + 1/n) e^{*m} m^{*n} x^{*} (m + n + 1) \gamma(m/n + 1 + 1/ \\
& n) / (c^{*n} \gamma(m/n + 2 + 1/n) + d^{*n} \gamma(m/n + 2 + 1/n)) - 2 c^{*} c^{*} \\
& (-m/n - 3 - 1/n) c^{*} (m/n + 1 + 1/n) e^{*m} m^{*} x^{*} (m + n + 1) \operatorname{lerchphi}(d^{*} x^{*n} \\
& * \exp_{\text{polar}}(I \pi) / c, 1, m/n + 1 + 1/n) \gamma(m/n + 1 + 1/n) / (c^{*n} \gamma(m/ \\
& n + 2 + 1/n) + d^{*n} \gamma(m/n + 2 + 1/n)) + c^{*} (-m/n - 3 - 1/n) c^{*} \\
& (m/n + 1 + 1/n) e^{*m} m^{*n} x^{*} (m + n + 1) \gamma(m/n + 1 + 1/n) / (c^{*n} \gamma \\
& \text{amma}(m/n + 2 + 1/n) + d^{*n} \gamma(m/n + 2 + 1/n)) - c^{*} (-m/n - 3 - 1/n) \\
&) c^{*} (m/n + 1 + 1/n) e^{*m} m^{*n} x^{*} (m + n + 1) \operatorname{lerchphi}(d^{*} x^{*n} \exp_{\text{polar}}(I \pi) / \\
& c, 1, m/n + 1 + 1/n) \gamma(m/n + 1 + 1/n) / (c^{*n} \gamma(m/n + 2 + 1/n) + d^{*} \\
& n \gamma(m/n + 2 + 1/n)) + c^{*} (-m/n - 3 - 1/n) c^{*} (m/n + 1 + 1/n) * \\
& e^{*m} m^{*n} x^{*} (m + n + 1) \gamma(m/n + 1 + 1/n) / (c^{*n} \gamma(m/n + 2 + 1/n) + d^{*} \\
& n \gamma(m/n + 2 + 1/n)) - c^{*} (-m/n - 3 - 1/n) c^{*} (m/n + 1 + 1/n) \\
& * e^{*m} m^{*} x^{*} (m + n + 1) \operatorname{lerchphi}(d^{*} x^{*n} \exp_{\text{polar}}(I \pi) / c, 1, m/n + 1 + 1/n) \gamma \\
& \text{amma}(m/n + 1 + 1/n) / (c^{*n} \gamma(m/n + 2 + 1/n) + d^{*n} \gamma(m/n + 2 \\
& + 1/n)) - c^{*} (-m/n - 3 - 1/n) c^{*} (m/n + 1 + 1/n) d^{*} e^{*m} m^{*2} x^{*n} x^{*} (m + \\
& n + 1) \operatorname{lerchphi}(d^{*} x^{*n} \exp_{\text{polar}}(I \pi) / c, 1, m/n + 1 + 1/n) \gamma(m/n + 1 \\
& + 1/n) / (c^{*n} \gamma(m/n + 2 + 1/n) + d^{*n} \gamma(m/n + 2 + 1/n)) - c^{*} \\
& (-m/n - 3 - 1/n) c^{*} (m/n + 1 + 1/n) d^{*} e^{*m} m^{*n} x^{*n} x^{*} (m + n + 1) \operatorname{lerchp} \\
& \text{hi}(d^{*} x^{*n} \exp_{\text{polar}}(I \pi) / c, 1, m/n + 1 + 1/n) \gamma(m/n + 1 + 1/n) / (c^{*n} \gamma \\
& * \gamma(m/n + 2 + 1/n) + d^{*n} \gamma(m/n + 2 + 1/n)) - 2 c^{*} (-m/n - 3 \\
& - 1/n) c^{*} (m/n + 1 + 1/n) d^{*} e^{*m} m^{*} x^{*n} x^{*} (m + n + 1) \operatorname{lerchphi}(d^{*} x^{*n} \exp_{\text{polar}} \\
& \text{polar}(I \pi) / c, 1, m/n + 1 + 1/n) \gamma(m/n + 1 + 1/n) / (c^{*n} \gamma(m/n + 2 \\
& + 1/n) + d^{*n} \gamma(m/n + 2 + 1/n)) - c^{*} (-m/n - 3 - 1/n) c^{*} (m/n + \\
& 1 + 1/n) d^{*} e^{*m} m^{*n} x^{*n} x^{*} (m + n + 1) \operatorname{lerchphi}(d^{*} x^{*n} \exp_{\text{polar}}(I \pi) / c, 1 \\
& , m/n + 1 + 1/n) \gamma(m/n + 1 + 1/n) / (c^{*n} \gamma(m/n + 2 + 1/n) + d^{*n} \gamma \\
& * \gamma(m/n + 2 + 1/n)) - c^{*} (-m/n - 3 - 1/n) c^{*} (m/n + 1 + 1/n) d^{*} e^{*m}
\end{aligned}$$

```
*x**n*x**(m + n + 1)*lerchphi(d*x**n*exp_polar(I*pi)/c, 1, m/n + 1 + 1/n)*gamma(m/n + 1 + 1/n)/(c*n**3*gamma(m/n + 2 + 1/n) + d*n**3*x**n*gamma(m/n + 2 + 1/n))
```

Maxima [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(c + dx^n)^2} dx = \int \frac{(Bx^n + A)(ex)^m}{(dx^n + c)^2} dx$$

```
[In] integrate((e*x)^m*(A+B*x^n)/(c+d*x^n)^2,x, algorithm="maxima")
```

```
[Out] -(B*c*e^m - A*d*e^m)*x*x^m/(c*d^2*n*x^n + c^2*d*n) - (A*d*e^m*(m - n + 1) - B*c*e^m*(m + 1))*integrate(x^m/(c*d^2*n*x^n + c^2*d*n), x)
```

Giac [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(c + dx^n)^2} dx = \int \frac{(Bx^n + A)(ex)^m}{(dx^n + c)^2} dx$$

```
[In] integrate((e*x)^m*(A+B*x^n)/(c+d*x^n)^2,x, algorithm="giac")
```

```
[Out] integrate((B*x^n + A)*(e*x)^m/(d*x^n + c)^2, x)
```

Mupad [F(-1)]

Timed out.

$$\int \frac{(ex)^m (A + Bx^n)}{(c + dx^n)^2} dx = \int \frac{(ex)^m (A + Bx^n)}{(c + dx^n)^2} dx$$

```
[In] int(((e*x)^m*(A + B*x^n))/(c + d*x^n)^2,x)
```

```
[Out] int(((e*x)^m*(A + B*x^n))/(c + d*x^n)^2, x)
```

3.33 $\int \frac{(ex)^m(A+Bx^n)}{(a+bx^n)(c+dx^n)^2} dx$

Optimal result	1060
Rubi [A] (verified)	1060
Mathematica [A] (verified)	1062
Maple [F]	1062
Fricas [F]	1062
Sympy [F(-2)]	1063
Maxima [F]	1063
Giac [F]	1063
Mupad [F(-1)]	1063

Optimal result

Integrand size = 31, antiderivative size = 211

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)(c + dx^n)^2} dx$$

$$= \frac{(Bc - Ad)(ex)^{1+m}}{c(bc - ad)en(c + dx^n)} + \frac{b(Ab - aB)(ex)^{1+m} \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{bx^n}{a}\right)}{a(bc - ad)^2 e(1+m)}$$

$$+ \frac{(bc(Ad(1+m-2n) - Bc(1+m-n)) + ad(Bc(1+m) - Ad(1+m-n)))(ex)^{1+m} \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{bx^n}{a}\right)}{c^2(bc - ad)^2 e(1+m)n}$$

[Out] (-A*d+B*c)*(e*x)^(1+m)/c/(-a*d+b*c)/e/n/(c+d*x^n)+b*(A*b-B*a)*(e*x)^(1+m)*hypergeom([1, (1+m)/n], [(1+m+n)/n], -b*x^n/a)/a/(-a*d+b*c)^2/e/(1+m)+(b*c*(A*d*(1+m-2*n)-B*c*(1+m-n))+a*d*(B*c*(1+m)-A*d*(1+m-n)))*(e*x)^(1+m)*hypergeom([1, (1+m)/n], [(1+m+n)/n], -d*x^n/c)/c^2/(-a*d+b*c)^2/e/(1+m)/n

Rubi [A] (verified)

Time = 0.32 (sec) , antiderivative size = 211, normalized size of antiderivative = 1.00, number of steps used = 5, number of rules used = 3, $\frac{\text{number of rules}}{\text{integrand size}} = 0.097$, Rules used = {609, 611, 371}

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)(c + dx^n)^2} dx$$

$$= \frac{(ex)^{m+1} \operatorname{Hypergeometric2F1}\left(1, \frac{m+1}{n}, \frac{m+n+1}{n}, -\frac{dx^n}{c}\right) (ad(Bc(m+1) - Ad(m-n+1)) + bc(Ad(m-2n) + Ad(m-n+1)))}{c^2 e(m+1)n(bc - ad)^2}$$

$$+ \frac{b(ex)^{m+1}(Ab - aB) \operatorname{Hypergeometric2F1}\left(1, \frac{m+1}{n}, \frac{m+n+1}{n}, -\frac{bx^n}{a}\right)}{ae(m+1)(bc - ad)^2}$$

$$+ \frac{(ex)^{m+1}(Bc - Ad)}{cen(bc - ad)(c + dx^n)}$$

[In] Int[((e*x)^m*(A + B*x^n))/((a + b*x^n)*(c + d*x^n)^2),x]

[Out] ((B*c - A*d)*(e*x)^(1 + m))/(c*(b*c - a*d)*e^n*(c + d*x^n)) + (b*(A*b - a*B)*(e*x)^(1 + m)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -((b*x^n)/a)])/((a*(b*c - a*d)^2*e^(1 + m)) + ((b*c*(A*d*(1 + m - 2*n) - B*c*(1 + m - n)) + a*d*(B*c*(1 + m) - A*d*(1 + m - n)))*(e*x)^(1 + m)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -((d*x^n)/c)])/(c^2*(b*c - a*d)^2*e^(1 + m)*n)

Rule 371

Int[((c_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Simp[a^p*((c*x)^(m + 1)/(c*(m + 1)))*Hypergeometric2F1[-p, (m + 1)/n, (m + 1)/n + 1, (-b)*(x^n/a)], x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILtQ[p, 0] || GtQ[a, 0])

Rule 609

Int[((g_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_)*((e_) + (f_)*(x_)^(n_)), x_Symbol] := Simp[(-b*e - a*f)*(g*x)^(m + 1)*(a + b*x^n)^(p + 1)*((c + d*x^n)^(q + 1)/(a*g*n*(b*c - a*d)*(p + 1)))/, x] + Dist[1/(a*n*(b*c - a*d)*(p + 1)), Int[(g*x)^m*(a + b*x^n)^(p + 1)*(c + d*x^n)^q*Simp[c*(b*e - a*f)*(m + 1) + e*n*(b*c - a*d)*(p + 1) + d*(b*e - a*f)*(m + n*(p + q + 2) + 1)*x^n, x], x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n, q}, x] && LtQ[p, -1]

Rule 611

Int[((g_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((e_) + (f_)*(x_)^(n_)))/((c_) + (d_)*(x_)^(n_)), x_Symbol] := Int[ExpandIntegrand[(g*x)^m*(a + b*x^n)^p*((e + f*x^n)/(c + d*x^n)), x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n, p}, x]

Rubi steps

$$\begin{aligned}
 \text{integral} &= \frac{(Bc - Ad)(ex)^{1+m}}{c(bc - ad)en(c + dx^n)} + \frac{\int \frac{(ex)^m(-a(Bc - Ad)(1+m) + A(bc - ad)n - b(Bc - Ad)(1+m-n)x^n)}{(a+bx^n)(c+dx^n)} dx}{c(bc - ad)n} \\
 &= \frac{(Bc - Ad)(ex)^{1+m}}{c(bc - ad)en(c + dx^n)} \\
 &\quad + \frac{\int \left(\frac{b(Ab - aB)cn(ex)^m}{(bc - ad)(a + bx^n)} + \frac{(bc(Ad(1+m-2n) - Bc(1+m-n)) + ad(Bc(1+m) - Ad(1+m-n)))(ex)^m}{(bc - ad)(c + dx^n)} \right) dx}{c(bc - ad)n} \\
 &= \frac{(Bc - Ad)(ex)^{1+m}}{c(bc - ad)en(c + dx^n)} + \frac{(b(Ab - aB)) \int \frac{(ex)^m}{a + bx^n} dx}{(bc - ad)^2} \\
 &\quad + \frac{(bc(Ad(1+m-2n) - Bc(1+m-n)) + ad(Bc(1+m) - Ad(1+m-n))) \int \frac{(ex)^m}{c + dx^n} dx}{c(bc - ad)^2n}
 \end{aligned}$$

$$= \frac{(Bc - Ad)(ex)^{1+m}}{c(bc - ad)en(c + dx^n)} + \frac{b(Ab - aB)(ex)^{1+m} {}_2F_1\left(1, \frac{1+m}{n}; \frac{1+m+n}{n}; -\frac{bx^n}{a}\right)}{a(bc - ad)^2e(1+m)} + \frac{(bc(Ad(1+m-2n) - Bc(1+m-n)) + ad(Bc(1+m) - Ad(1+m-n)))(ex)^{1+m} {}_2F_1\left(1, \frac{1+m}{n}\right)}{c^2(bc - ad)^2e(1+m)n}$$

Mathematica [A] (verified)

Time = 0.38 (sec) , antiderivative size = 150, normalized size of antiderivative = 0.71

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)(c + dx^n)^2} dx$$

$$= \frac{x(ex)^m (b(Ab - aB)c^2 \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{bx^n}{a}\right) + a(-Ab + aB)cd \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{dx^n}{c}\right) + a(b^2c - a^2d)(Bc - Ad) \operatorname{Hypergeometric2F1}\left(2, 1 + \frac{1+m}{n}, 2 + \frac{1+m+n}{n}, -\frac{dx^n}{c}\right)}{ac^2(bc - ad)^2(1+m)}$$

[In] Integrate[((e*x)^m*(A + B*x^n))/((a + b*x^n)*(c + d*x^n)^2),x]

[Out] (x*(e*x)^m*(b*(A*b - a*B)*c^2*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -(b*x^n)/a]) + a*(-(A*b) + a*B)*c*d*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -(d*x^n)/c] + a*(b*c - a*d)*(B*c - A*d)*Hypergeometric2F1[2, (1 + m)/n, (1 + m + n)/n, -(d*x^n)/c])/(a*c^2*(b*c - a*d)^2*(1 + m))

Maple [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)(c + dx^n)^2} dx$$

[In] int((e*x)^m*(A+B*x^n)/(a+b*x^n)/(c+d*x^n)^2,x)

[Out] int((e*x)^m*(A+B*x^n)/(a+b*x^n)/(c+d*x^n)^2,x)

Fricas [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)(c + dx^n)^2} dx = \int \frac{(Bx^n + A)(ex)^m}{(bx^n + a)(dx^n + c)^2} dx$$

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

[Out] integral((B*x^n + A)*(e*x)^m/(b*d^2*x^(3*n) + a*c^2 + (2*b*c*d + a*d^2)*x^(2*n) + (b*c^2 + 2*a*c*d)*x^n), x)

Sympy [F(-2)]

Exception generated.

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)(c + dx^n)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((e*x)**m*(A+B*x**n)/(a+b*x**n)/(c+d*x**n)**2,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

Maxima [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)(c + dx^n)^2} dx = \int \frac{(Bx^n + A)(ex)^m}{(bx^n + a)(dx^n + c)^2} dx$$

[In] integrate((e*x)^m*(A+B*x^n)/(a+b*x^n)/(c+d*x^n)^2,x, algorithm="maxima")

[Out] (B*c*e^m - A*d*e^m)*x*x^m/(b*c^3*n - a*c^2*d*n + (b*c^2*d*n - a*c*d^2*n)*x^n) - ((a*d^2*e^m*(m - n + 1) - b*c*d*e^m*(m - 2*n + 1))*A + (b*c^2*e^m*(m - n + 1) - a*c*d*e^m*(m + 1))*B)*integrate(x^m/(b^2*c^4*n - 2*a*b*c^3*d*n + a^2*c^2*d^2*n + (b^2*c^3*d*n - 2*a*b*c^2*d^2*n + a^2*c*d^3*n)*x^n), x) - (B*a*b*e^m - A*b^2*e^m)*integrate(x^m/(a*b^2*c^2 - 2*a^2*b*c*d + a^3*d^2 + (b^3*c^2 - 2*a*b^2*c*d + a^2*b*d^2)*x^n), x)

Giac [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)(c + dx^n)^2} dx = \int \frac{(Bx^n + A)(ex)^m}{(bx^n + a)(dx^n + c)^2} dx$$

[In] integrate((e*x)^m*(A+B*x^n)/(a+b*x^n)/(c+d*x^n)^2,x, algorithm="giac")

[Out] integrate((B*x^n + A)*(e*x)^m/((b*x^n + a)*(d*x^n + c)^2), x)

Mupad [F(-1)]

Timed out.

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)(c + dx^n)^2} dx = \int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)(c + dx^n)^2} dx$$

[In] int(((e*x)^m*(A + B*x^n))/((a + b*x^n)*(c + d*x^n)^2),x)

[Out] int(((e*x)^m*(A + B*x^n))/((a + b*x^n)*(c + d*x^n)^2), x)

3.34 $\int \frac{(ex)^m (A+Bx^n)}{(a+bx^n)^2 (c+dx^n)^2} dx$

Optimal result	1064
Rubi [A] (verified)	1064
Mathematica [A] (verified)	1066
Maple [F]	1067
Fricas [F]	1067
Sympy [F(-2)]	1067
Maxima [F]	1068
Giac [F]	1068
Mupad [F(-1)]	1068

Optimal result

Integrand size = 31, antiderivative size = 315

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^2 (c + dx^n)^2} dx$$

$$= \frac{d(abc - 2aBc + aAd)(ex)^{1+m}}{ac(bc - ad)^2 en (c + dx^n)} + \frac{(Ab - aB)(ex)^{1+m}}{a(bc - ad)en (a + bx^n) (c + dx^n)}$$

$$+ \frac{b(aB(bc(1+m) - ad(1+m-2n)) + Ab(ad(1+m-3n) - bc(1+m-n)))(ex)^{1+m} \text{Hypergeometric2F1}}{a^2(bc - ad)^3 e(1+m)n}$$

$$- \frac{d(bc(Ad(1+m-3n) - Bc(1+m-2n)) + ad(Bc(1+m) - Ad(1+m-n)))(ex)^{1+m} \text{Hypergeometric2F1}}{c^2(bc - ad)^3 e(1+m)n}$$

```
[Out] d*(A*a*d+A*b*c-2*B*a*c)*(e*x)^(1+m)/a/c/(-a*d+b*c)^2/e/n/(c+d*x^n)+(A*b-B*a)
*(e*x)^(1+m)/a/(-a*d+b*c)/e/n/(a+b*x^n)/(c+d*x^n)+b*(a*B*(b*c*(1+m)-a*d*(1
+m-2*n))+A*b*(a*d*(1+m-3*n)-b*c*(1+m-n))*(e*x)^(1+m)*hypergeom([1, (1+m)/n
],[ (1+m+n)/n ], -b*x^n/a)/a^2/(-a*d+b*c)^3/e/(1+m)/n-d*(b*c*(A*d*(1+m-3*n)-B*
c*(1+m-2*n))+a*d*(B*c*(1+m)-A*d*(1+m-n))*(e*x)^(1+m)*hypergeom([1, (1+m)/n
],[ (1+m+n)/n ], -d*x^n/c)/c^2/(-a*d+b*c)^3/e/(1+m)/n
```

Rubi [A] (verified)

Time = 0.66 (sec) , antiderivative size = 315, normalized size of antiderivative = 1.00, number of steps used = 6, number of rules used = 3, $\frac{\text{number of rules}}{\text{integrand size}} = 0.097$, Rules used

= {609, 611, 371}

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^2 (c + dx^n)^2} dx$$

$$= \frac{b(ex)^{m+1} \text{Hypergeometric2F1}\left(1, \frac{m+1}{n}, \frac{m+n+1}{n}, -\frac{bx^n}{a}\right) (Ab(ad(m-3n+1) - bc(m-n+1)) + aB(bc(m-n+1) - ad(m-n+1)))}{a^2 e(m+1)n(bc-ad)^3} - \frac{d(ex)^{m+1} \text{Hypergeometric2F1}\left(1, \frac{m+1}{n}, \frac{m+n+1}{n}, -\frac{dx^n}{c}\right) (ad(Bc(m+1) - Ad(m-n+1)) + bc(Ad(m-n+1) - Bc(m+1)))}{c^2 e(m+1)n(bc-ad)^3} + \frac{d(ex)^{m+1}(aAd - 2aBc + Abc)}{acn(bc-ad)^2(c+dx^n)} + \frac{(ex)^{m+1}(Ab - aB)}{aen(bc-ad)(a+bx^n)(c+dx^n)}$$

[In] Int[((e*x)^m*(A + B*x^n))/((a + b*x^n)^2*(c + d*x^n)^2), x]

[Out] (d*(A*b*c - 2*a*B*c + a*A*d)*(e*x)^(1 + m))/(a*c*(b*c - a*d)^2*e*n*(c + d*x^n) + ((A*b - a*B)*(e*x)^(1 + m))/(a*(b*c - a*d)*e*n*(a + b*x^n)*(c + d*x^n) + (b*(a*B*(b*c*(1 + m) - a*d*(1 + m - 2*n)) + A*b*(a*d*(1 + m - 3*n) - b*c*(1 + m - n)))*(e*x)^(1 + m)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -(b*x^n)/a])/(a^2*(b*c - a*d)^3*e*(1 + m)*n - (d*(b*c*(A*d*(1 + m - 3*n) - B*c*(1 + m - 2*n)) + a*d*(B*c*(1 + m) - A*d*(1 + m - n)))*(e*x)^(1 + m)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -(d*x^n)/c])/(c^2*(b*c - a*d)^3*e*(1 + m)*n)

Rule 371

Int[((c_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Simp[a^p*((c*x)^(m+1)/(c*(m+1)))*Hypergeometric2F1[-p, (m+1)/n, (m+1)/n+1, (-b)*(x^n/a)], x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILtQ[p, 0] || GtQ[a, 0])

Rule 609

Int[((g_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_)*((e_) + (f_)*(x_)^(n_)), x_Symbol] := Simp[(-(b*e - a*f))*(g*x)^(m+1)*(a + b*x^n)^(p+1)*((c + d*x^n)^(q+1)/(a*g*n*(b*c - a*d)*(p+1))), x] + Dist[1/(a*n*(b*c - a*d)*(p+1)), Int[(g*x)^m*(a + b*x^n)^(p+1)*(c + d*x^n)^q*Simp[c*(b*e - a*f)*(m+1) + e*n*(b*c - a*d)*(p+1) + d*(b*e - a*f)*(m+n*(p+q+2)+1)*x^n, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n, q}, x] && LtQ[p, -1]

Rule 611

Int[(((g_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((e_) + (f_)*(x_)^(n_)))/((c_) + (d_)*(x_)^(n_)), x_Symbol] := Int[ExpandIntegrand[(g*x)^m*(a + b*x^n)^p*((e + f*x^n)/(c + d*x^n)), x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n, p}, x]

Rubi steps

$$\begin{aligned}
 \text{integral} &= \frac{(Ab - aB)(ex)^{1+m}}{a(bc - ad)en(a + bx^n)(c + dx^n)} \\
 &\quad - \frac{\int \frac{(ex)^m(-aBc(1+m) + Abc(1+m-n) + aAdn + (Ab - aB)d(1+m-2n)x^n)}{(a+bx^n)(c+dx^n)^2} dx}{a(bc - ad)n} \\
 &= \frac{d(Abc - 2aBc + aAd)(ex)^{1+m}}{ac(bc - ad)^2en(c + dx^n)} + \frac{(Ab - aB)(ex)^{1+m}}{a(bc - ad)en(a + bx^n)(c + dx^n)} \\
 &\quad - \frac{\int \frac{(ex)^m(-n(aBc(bc+ad)(1+m) - A(b^2c^2(1+m-n) + a^2d^2(1+m-n) + 2abcdn)) + bd(Abc - 2aBc + aAd)(1+m-n)nx^n)}{(a+bx^n)(c+dx^n)} dx}{ac(bc - ad)^2n^2} \\
 &= \frac{d(Abc - 2aBc + aAd)(ex)^{1+m}}{ac(bc - ad)^2en(c + dx^n)} + \frac{(Ab - aB)(ex)^{1+m}}{a(bc - ad)en(a + bx^n)(c + dx^n)} \\
 &\quad - \frac{\int \left(\frac{bc(-aB(bc(1+m) - ad(1+m-2n)) - Ab(ad(1+m-3n) - bc(1+m-n))n(ex)^m}{(bc-ad)(a+bx^n)} + \frac{ad(bc(Ad(1+m-3n) - Bc(1+m-2n)) + ad(Bc(1+m) - Ad(1+m-n)))}{(bc-ad)(c+dx^n)} \right) dx}{ac(bc - ad)^2n^2} \\
 &= \frac{d(Abc - 2aBc + aAd)(ex)^{1+m}}{ac(bc - ad)^2en(c + dx^n)} + \frac{(Ab - aB)(ex)^{1+m}}{a(bc - ad)en(a + bx^n)(c + dx^n)} \\
 &\quad + \frac{(b(aB(bc(1+m) - ad(1+m-2n)) + Ab(ad(1+m-3n) - bc(1+m-n)))) \int \frac{(ex)^m}{a+bx^n} dx}{a(bc - ad)^3n} \\
 &\quad - \frac{(d(bc(Ad(1+m-3n) - Bc(1+m-2n)) + ad(Bc(1+m) - Ad(1+m-n)))) \int \frac{(ex)^m}{c+dx^n} dx}{c(bc - ad)^3n} \\
 &= \frac{d(Abc - 2aBc + aAd)(ex)^{1+m}}{ac(bc - ad)^2en(c + dx^n)} + \frac{(Ab - aB)(ex)^{1+m}}{a(bc - ad)en(a + bx^n)(c + dx^n)} \\
 &\quad + \frac{b(aB(bc(1+m) - ad(1+m-2n)) + Ab(ad(1+m-3n) - bc(1+m-n)))(ex)^{1+m} {}_2F_1\left(1, \frac{1+m}{n}\right)}{a^2(bc - ad)^3e(1+m)n} \\
 &\quad - \frac{d(bc(Ad(1+m-3n) - Bc(1+m-2n)) + ad(Bc(1+m) - Ad(1+m-n)))(ex)^{1+m} {}_2F_1\left(1, \frac{1+m}{n}\right)}{c^2(bc - ad)^3e(1+m)n}
 \end{aligned}$$

Mathematica [A] (verified)

Time = 0.57 (sec) , antiderivative size = 209, normalized size of antiderivative = 0.66

$$\begin{aligned}
 &\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^2 (c + dx^n)^2} dx \\
 &= \frac{x(ex)^m \left(\frac{b(bBc - 2Abd + aBd) \text{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{bx^n}{a}\right)}{a} - \frac{d(bBc - 2Abd + aBd) \text{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{dx^n}{c}\right)}{c} \right)}{(bc - ad)}
 \end{aligned}$$

[In] Integrate[((e*x)^m*(A + B*x^n))/((a + b*x^n)^2*(c + d*x^n)^2), x]

```
[Out] (x*(e*x)^m*((b*(b*B*c - 2*A*b*d + a*B*d)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -((b*x^n)/a)])/a - (d*(b*B*c - 2*A*b*d + a*B*d)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -((d*x^n)/c)]/c + (b*(-(A*b) + a*B)*(-(b*c) + a*d)*Hypergeometric2F1[2, (1 + m)/n, (1 + m + n)/n, -((b*x^n)/a)]/a^2 - (d*(b*c - a*d)*(B*c - A*d)*Hypergeometric2F1[2, (1 + m)/n, (1 + m + n)/n, -((d*x^n)/c)]/c^2))/((b*c - a*d)^3*(1 + m))
```

Maple [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^2 (c + dx^n)^2} dx$$

```
[In] int((e*x)^m*(A+B*x^n)/(a+b*x^n)^2/(c+d*x^n)^2,x)
```

```
[Out] int((e*x)^m*(A+B*x^n)/(a+b*x^n)^2/(c+d*x^n)^2,x)
```

Fricas [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^2 (c + dx^n)^2} dx = \int \frac{(Bx^n + A)(ex)^m}{(bx^n + a)^2 (dx^n + c)^2} dx$$

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

```
[Out] integral((B*x^n + A)*(e*x)^m/(b^2*d^2*x^(4*n) + a^2*c^2 + 2*(b^2*c*d + a*b*d^2)*x^(3*n) + (b^2*c^2 + 4*a*b*c*d + a^2*d^2)*x^(2*n) + 2*(a*b*c^2 + a^2*c*d)*x^n), x)
```

Sympy [F(-2)]

Exception generated.

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^2 (c + dx^n)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((e*x)**m*(A+B*x**n)/(a+b*x**n)**2/(c+d*x**n)**2,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

Maxima [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^2 (c + dx^n)^2} dx = \int \frac{(Bx^n + A)(ex)^m}{(bx^n + a)^2 (dx^n + c)^2} dx$$

[In] integrate((e*x)^m*(A+B*x^n)/(a+b*x^n)^2/(c+d*x^n)^2,x, algorithm="maxima")

[Out] ((b^3*c*e^m*(m - n + 1) - a*b^2*d*e^m*(m - 3*n + 1))*A + (a^2*b*d*e^m*(m - 2*n + 1) - a*b^2*c*e^m*(m + 1))*B)*integrate(-x^m/(a^2*b^3*c^3*n - 3*a^3*b^2*c^2*d*n + 3*a^4*b*c*d^2*n - a^5*d^3*n + (a*b^4*c^3*n - 3*a^2*b^3*c^2*d*n + 3*a^3*b^2*c*d^2*n - a^4*b*d^3*n)*x^n), x) - ((a*d^3*e^m*(m - n + 1) - b*c*d^2*e^m*(m - 3*n + 1))*A + (b*c^2*d*e^m*(m - 2*n + 1) - a*c*d^2*e^m*(m + 1))*B)*integrate(-x^m/(b^3*c^5*n - 3*a*b^2*c^4*d*n + 3*a^2*b*c^3*d^2*n - a^3*c^2*d^3*n + (b^3*c^4*d*n - 3*a*b^2*c^3*d^2*n + 3*a^2*b*c^2*d^3*n - a^3*c*d^4*n)*x^n), x) + (((b^2*c^2*e^m + a^2*d^2*e^m)*A - (a*b*c^2*e^m + a^2*c*d*e^m)*B)*x*x^m - (2*B*a*b*c*d*e^m - (b^2*c*d*e^m + a*b*d^2*e^m)*A)*x*e^(m*log(x) + n*log(x)))/(a^2*b^2*c^4*n - 2*a^3*b*c^3*d*n + a^4*c^2*d^2*n + (a*b^3*c^3*d*n - 2*a^2*b^2*c^2*d^2*n + a^3*b*c*d^3*n)*x^(2*n) + (a*b^3*c^4*n - a^2*b^2*c^3*d*n - a^3*b*c^2*d^2*n + a^4*c*d^3*n)*x^n)

Giac [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^2 (c + dx^n)^2} dx = \int \frac{(Bx^n + A)(ex)^m}{(bx^n + a)^2 (dx^n + c)^2} dx$$

[In] integrate((e*x)^m*(A+B*x^n)/(a+b*x^n)^2/(c+d*x^n)^2,x, algorithm="giac")

[Out] integrate((B*x^n + A)*(e*x)^m/((b*x^n + a)^2*(d*x^n + c)^2), x)

Mupad [F(-1)]

Timed out.

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^2 (c + dx^n)^2} dx = \int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^2 (c + dx^n)^2} dx$$

[In] int(((e*x)^m*(A + B*x^n))/((a + b*x^n)^2*(c + d*x^n)^2), x)

[Out] int(((e*x)^m*(A + B*x^n))/((a + b*x^n)^2*(c + d*x^n)^2), x)

3.35 $\int \frac{(ex)^m (A+Bx^n)}{(a+bx^n)^3 (c+dx^n)^2} dx$

Optimal result	1069
Rubi [A] (verified)	1070
Mathematica [A] (verified)	1073
Maple [F]	1073
Fricas [F]	1073
Sympy [F(-1)]	1074
Maxima [F]	1074
Giac [F]	1075
Mupad [F(-1)]	1075

Optimal result

Integrand size = 31, antiderivative size = 567

$$\int \frac{(ex)^m (A+Bx^n)}{(a+bx^n)^3 (c+dx^n)^2} dx$$

$$= \frac{d(aBc(bc(1+m) - ad(1+m-6n)) + A(abcd(1+m-6n) - b^2c^2(1+m-2n) - 2a^2d^2n))(ex)^{1+m}}{2a^2c(bc-ad)^3en^2(c+dx^n)}$$

$$+ \frac{(Ab-aB)(ex)^{1+m}}{2a(bc-ad)en(a+bx^n)^2(c+dx^n)}$$

$$+ \frac{(aB(bc(1+m) - ad(1+m-3n)) + Ab(ad(1+m-5n) - bc(1+m-2n)))(ex)^{1+m}}{2a^2(bc-ad)^2en^2(a+bx^n)(c+dx^n)}$$

$$+ \frac{b(aB(2abcd(1+m)(1+m-3n) - b^2c^2(1+m)(1+m-n) - a^2d^2(1+m^2+m(2-5n) - 5n+6n^2))}{c^2(bc-ad)^4e(1+m)n} (ex)^{1+m} \text{Hypergeomet}$$

```
[Out] 1/2*d*(a*B*c*(b*c*(1+m)-a*d*(1+m-6*n))+A*(a*b*c*d*(1+m-6*n)-b^2*c^2*(1+m-2*
n)-2*a^2*d^2*n))*(e*x)^(1+m)/a^2/c/(-a*d+b*c)^3/e/n^2/(c+d*x^n)+1/2*(A*b-B*
a)*(e*x)^(1+m)/a/(-a*d+b*c)/e/n/(a+b*x^n)^2/(c+d*x^n)+1/2*(a*B*(b*c*(1+m)-a
*d*(1+m-3*n))+A*b*(a*d*(1+m-5*n)-b*c*(1+m-2*n)))*(e*x)^(1+m)/a^2/(-a*d+b*c)
^2/e/n^2/(a+b*x^n)/(c+d*x^n)+1/2*b*(a*B*(2*a*b*c*d*(1+m)*(1+m-3*n)-b^2*c^2*
(1+m)*(1+m-n)-a^2*d^2*(1+m^2+m*(2-5*n)-5*n+6*n^2))+A*b*(b^2*c^2*(1+m^2+m*(2
-3*n)-3*n+2*n^2)-2*a*b*c*d*(1+m^2+m*(2-5*n)-5*n+4*n^2)+a^2*d^2*(1+m^2+m*(2-
7*n)-7*n+12*n^2)))*(e*x)^(1+m)*hypergeom([1, (1+m)/n], [(1+m+n)/n], -b*x^n/a)
/a^3/(-a*d+b*c)^4/e/(1+m)/n^2+d^2*(b*c*(A*d*(1+m-4*n)-B*c*(1+m-3*n))+a*d*(B
*c*(1+m)-A*d*(1+m-n)))*(e*x)^(1+m)*hypergeom([1, (1+m)/n], [(1+m+n)/n], -d*x^
n/c)/c^2/(-a*d+b*c)^4/e/(1+m)/n
```

Rubi [A] (verified)

Time = 1.46 (sec) , antiderivative size = 567, normalized size of antiderivative = 1.00, number of steps used = 7, number of rules used = 3, $\frac{\text{number of rules}}{\text{integrand size}} = 0.097$, Rules used = {609, 611, 371}

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^3 (c + dx^n)^2} dx$$

$$= \frac{d(ex)^{m+1} (A(-2a^2d^2n + abcd(m - 6n + 1) - b^2c^2(m - 2n + 1)) + aBc(bc(m + 1) - ad(m - 6n + 1)))}{2a^2cen^2(bc - ad)^3(c + dx^n)}$$

$$+ \frac{(ex)^{m+1}(Ab(ad(m - 5n + 1) - bc(m - 2n + 1)) + aB(bc(m + 1) - ad(m - 3n + 1)))}{2a^2en^2(bc - ad)^2(a + bx^n)(c + dx^n)}$$

$$+ \frac{b(ex)^{m+1} \text{Hypergeometric2F1}\left(1, \frac{m+1}{n}, \frac{m+n+1}{n}, -\frac{bx^n}{a}\right) (Ab(a^2d^2(m^2 + m(2 - 7n) + 12n^2 - 7n + 1) - 2abc)}{c^2e(m + 1)n(bc - ad)^4}$$

$$+ \frac{d^2(ex)^{m+1} \text{Hypergeometric2F1}\left(1, \frac{m+1}{n}, \frac{m+n+1}{n}, -\frac{dx^n}{c}\right) (ad(Bc(m + 1) - Ad(m - n + 1)) + bc(Ad(m - 4n + 1) - Ad(m - n + 1)))}{c^2e(m + 1)n(bc - ad)^4}$$

$$+ \frac{(ex)^{m+1}(Ab - aB)}{2aen(bc - ad)(a + bx^n)^2(c + dx^n)}$$

[In] Int[((e*x)^m*(A + B*x^n))/((a + b*x^n)^3*(c + d*x^n)^2), x]

[Out] (d*(a*B*c*(b*c*(1 + m) - a*d*(1 + m - 6*n)) + A*(a*b*c*d*(1 + m - 6*n) - b^2*c^2*(1 + m - 2*n) - 2*a^2*d^2*n))*(e*x)^(1 + m)/(2*a^2*c*(b*c - a*d)^3*e*n^2*(c + d*x^n)) + ((A*b - a*B)*(e*x)^(1 + m))/(2*a*(b*c - a*d)*e*n*(a + b*x^n)^2*(c + d*x^n)) + ((a*B*(b*c*(1 + m) - a*d*(1 + m - 3*n)) + A*b*(a*d*(1 + m - 5*n) - b*c*(1 + m - 2*n)))*(e*x)^(1 + m))/(2*a^2*(b*c - a*d)^2*e*n^2*(a + b*x^n)*(c + d*x^n)) + (b*(a*B*(2*a*b*c*d*(1 + m)*(1 + m - 3*n) - b^2*c^2*(1 + m)*(1 + m - n) - a^2*d^2*(1 + m^2 + m*(2 - 5*n) - 5*n + 6*n^2)) + A*b*(b^2*c^2*(1 + m^2 + m*(2 - 3*n) - 3*n + 2*n^2) - 2*a*b*c*d*(1 + m^2 + m*(2 - 5*n) - 5*n + 4*n^2) + a^2*d^2*(1 + m^2 + m*(2 - 7*n) - 7*n + 12*n^2)))*(e*x)^(1 + m)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -((b*x^n)/a)])/((2*a^3*(b*c - a*d)^4*e*(1 + m)*n^2) + (d^2*(b*c*(A*d*(1 + m - 4*n) - B*c*(1 + m - 3*n)) + a*d*(B*c*(1 + m) - A*d*(1 + m - n)))*(e*x)^(1 + m)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -((d*x^n)/c)]/(c^2*(b*c - a*d)^4*e*(1 + m)*n)

Rule 371

Int[((c_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_), x_Symbol] := Simp[a^p*((c*x)^(m + 1)/(c*(m + 1)))*Hypergeometric2F1[-p, (m + 1)/n, (m + 1)/n + 1, (-b)*(x^n/a)], x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILtQ[p, 0] || GtQ[a, 0])

Rule 609

```

Int[((g_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_)*((e_) + (f_)*(x_)^(n_)), x_Symbol] := Simp[(-(b*e - a*f))*(g*x)^(m + 1)*(a + b*x^n)^(p + 1)*((c + d*x^n)^(q + 1)/(a*g*n*(b*c - a*d)*(p + 1))), x] + Dist[1/(a*n*(b*c - a*d)*(p + 1)), Int[(g*x)^m*(a + b*x^n)^(p + 1)*(c + d*x^n)^q*Simp[c*(b*e - a*f)*(m + 1) + e*n*(b*c - a*d)*(p + 1) + d*(b*e - a*f)*(m + n*(p + q + 2) + 1)*x^n, x], x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n, q}, x] && LtQ[p, -1]

```

Rule 611

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Int[(((g_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((e_) + (f_)*(x_)^(n_)))/((c_) + (d_)*(x_)^(n_)), x_Symbol] := Int[ExpandIntegrand[(g*x)^m*(a + b*x^n)^p*(e + f*x^n)/(c + d*x^n), x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n, p}, x]

```

Rubi steps

$$\begin{aligned}
\text{integral} &= \frac{(Ab - aB)(ex)^{1+m}}{2a(bc - ad)en(a + bx^n)^2(c + dx^n)} \\
&\quad - \frac{\int \frac{(ex)^m(-aBc(1+m) + Abc(1+m-2n) + 2aAdn + (Ab - aB)d(1+m-3n)x^n)}{(a+bx^n)^2(c+dx^n)^2} dx}{2a(bc - ad)n} \\
&= \frac{(Ab - aB)(ex)^{1+m}}{2a(bc - ad)en(a + bx^n)^2(c + dx^n)} \\
&\quad + \frac{(aB(bc(1+m) - ad(1+m-3n)) + Ab(ad(1+m-5n) - bc(1+m-2n)))(ex)^{1+m}}{2a^2(bc - ad)^2en^2(a + bx^n)(c + dx^n)} \\
&\quad + \frac{\int \frac{(ex)^m(-c(1+m)(aB(bc(1+m) - ad(1+m-3n)) + Ab(ad(1+m-5n) - bc(1+m-2n))) + (bc - ad)n(aBc(1+m) - Abc(1+m-2n) - 2aAdn)}{(a+bx^n)(c+dx^n)^2} dx}{2a^2(bc - ad)^2n^2} \\
&= \frac{d(aBc(bc(1+m) - ad(1+m-6n)) + A(abcd(1+m-6n) - b^2c^2(1+m-2n) - 2a^2d^2n))(ex)}{2a^2c(bc - ad)^3en^2(c + dx^n)} \\
&\quad + \frac{(Ab - aB)(ex)^{1+m}}{2a(bc - ad)en(a + bx^n)^2(c + dx^n)} \\
&\quad + \frac{(aB(bc(1+m) - ad(1+m-3n)) + Ab(ad(1+m-5n) - bc(1+m-2n)))(ex)^{1+m}}{2a^2(bc - ad)^2en^2(a + bx^n)(c + dx^n)} \\
&\quad + \frac{\int \frac{(ex)^m(-n(ad(1+m)(aBc(bc(1+m) - ad(1+m-6n)) + A(abcd(1+m-6n) - b^2c^2(1+m-2n) - 2a^2d^2n)) + (bc - ad)(c(1+m)(aB(bc(1+m) - ad(1+m-3n)) + Ab(ad(1+m-5n) - bc(1+m-2n))))}{(a+bx^n)(c+dx^n)^2} dx}{2a^2(bc - ad)^2n^2}
\end{aligned}$$

$$\begin{aligned}
&= \frac{d(aBc(bc(1+m) - ad(1+m-6n)) + A(abcd(1+m-6n) - b^2c^2(1+m-2n) - 2a^2d^2n))(ex)^{1+m}}{2a^2c(bc-ad)^3en^2(c+dx^n)} \\
&+ \frac{(Ab-aB)(ex)^{1+m}}{2a(bc-ad)en(a+bx^n)^2(c+dx^n)} \\
&+ \frac{(aB(bc(1+m) - ad(1+m-3n)) + Ab(ad(1+m-5n) - bc(1+m-2n)))(ex)^{1+m}}{2a^2(bc-ad)^2en^2(a+bx^n)(c+dx^n)} \\
&+ \frac{\int \left(\frac{bcn(aB(2abcd(1+m)(1+m-3n) - b^2c^2(1+m)(1+m-n) - a^2d^2(1+m^2+m(2-5n) - 5n+6n^2)) + Ab(b^2c^2(1+m^2+m(2-3n) - 3n+6n^2))}{(bc-ad)(a+bx^n)} \right) dx}{(bc-ad)(a+bx^n)} \\
&= \frac{d(aBc(bc(1+m) - ad(1+m-6n)) + A(abcd(1+m-6n) - b^2c^2(1+m-2n) - 2a^2d^2n))(ex)^{1+m}}{2a^2c(bc-ad)^3en^2(c+dx^n)} \\
&+ \frac{(Ab-aB)(ex)^{1+m}}{2a(bc-ad)en(a+bx^n)^2(c+dx^n)} \\
&+ \frac{(aB(bc(1+m) - ad(1+m-3n)) + Ab(ad(1+m-5n) - bc(1+m-2n)))(ex)^{1+m}}{2a^2(bc-ad)^2en^2(a+bx^n)(c+dx^n)} \\
&+ \frac{(d^2(bc(Ad(1+m-4n) - Bc(1+m-3n)) + ad(Bc(1+m) - Ad(1+m-n)))) \int \frac{(ex)^m}{c+dx^n} dx}{c(bc-ad)^4n} \\
&+ \frac{(b(aB(2abcd(1+m)(1+m-3n) - b^2c^2(1+m)(1+m-n) - a^2d^2(1+m^2+m(2-5n) - 5n+6n^2)) + Ab(b^2c^2(1+m^2+m(2-3n) - 3n+6n^2)))}{c(bc-ad)^4n} \\
&= \frac{d(aBc(bc(1+m) - ad(1+m-6n)) + A(abcd(1+m-6n) - b^2c^2(1+m-2n) - 2a^2d^2n))(ex)^{1+m}}{2a^2c(bc-ad)^3en^2(c+dx^n)} \\
&+ \frac{(Ab-aB)(ex)^{1+m}}{2a(bc-ad)en(a+bx^n)^2(c+dx^n)} \\
&+ \frac{(aB(bc(1+m) - ad(1+m-3n)) + Ab(ad(1+m-5n) - bc(1+m-2n)))(ex)^{1+m}}{2a^2(bc-ad)^2en^2(a+bx^n)(c+dx^n)} \\
&+ \frac{b(aB(2abcd(1+m)(1+m-3n) - b^2c^2(1+m)(1+m-n) - a^2d^2(1+m^2+m(2-5n) - 5n+6n^2)) + Ab(b^2c^2(1+m^2+m(2-3n) - 3n+6n^2)))}{c^2(bc-ad)^4e(1+m)n} \\
&+ \frac{d^2(bc(Ad(1+m-4n) - Bc(1+m-3n)) + ad(Bc(1+m) - Ad(1+m-n)))(ex)^{1+m} {}_2F_1(1, \frac{1}{2}, \frac{3}{2}, \frac{c+dx^n}{c})}{c^2(bc-ad)^4e(1+m)n}
\end{aligned}$$

Mathematica [A] (verified)

Time = 0.97 (sec) , antiderivative size = 270, normalized size of antiderivative = 0.48

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^3 (c + dx^n)^2} dx$$

$$= x(ex)^m \left(-\frac{bd(2bBc-3Abd+aBd) \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{bx^n}{a}\right)}{a} + \frac{d^2(2bBc-3Abd+aBd) \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}\right)}{c} \right)$$

[In] Integrate[((e*x)^m*(A + B*x^n))/((a + b*x^n)^3*(c + d*x^n)^2),x]

[Out] (x*(e*x)^m*(-((b*d*(2*b*B*c - 3*A*b*d + a*B*d)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -((b*x^n)/a)])/a) + (d^2*(2*b*B*c - 3*A*b*d + a*B*d)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -((d*x^n)/c)]/c + (b*(b*c - a*d)*(b*B*c - 2*A*b*d + a*B*d)*Hypergeometric2F1[2, (1 + m)/n, (1 + m + n)/n, -((b*x^n)/a)]/a^2 + (d^2*(b*c - a*d)*(B*c - A*d)*Hypergeometric2F1[2, (1 + m)/n, (1 + m + n)/n, -((d*x^n)/c)]/c^2 + (b*(A*b - a*B)*(b*c - a*d)^2*Hypergeometric2F1[3, (1 + m)/n, (1 + m + n)/n, -((b*x^n)/a)]/a^3))/((b*c - a*d)^4*(1 + m))

Maple [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^3 (c + dx^n)^2} dx$$

[In] int((e*x)^m*(A+B*x^n)/(a+b*x^n)^3/(c+d*x^n)^2,x)

[Out] int((e*x)^m*(A+B*x^n)/(a+b*x^n)^3/(c+d*x^n)^2,x)

Fricas [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^3 (c + dx^n)^2} dx = \int \frac{(Bx^n + A)(ex)^m}{(bx^n + a)^3 (dx^n + c)^2} dx$$

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

[Out] integral((B*x^n + A)*(e*x)^m/(b^3*d^2*x^(5*n) + a^3*c^2 + (2*b^3*c*d + 3*a*b^2*d^2)*x^(4*n) + (b^3*c^2 + 6*a*b^2*c*d + 3*a^2*b*d^2)*x^(3*n) + (3*a*b^2*c^2 + 6*a^2*b*c*d + a^3*d^2)*x^(2*n) + (3*a^2*b*c^2 + 2*a^3*c*d)*x^n), x)

Sympy [F(-1)]

Timed out.

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^3 (c + dx^n)^2} dx = \text{Timed out}$$

[In] integrate((e*x)**m*(A+B*x**n)/(a+b*x**n)**3/(c+d*x**n)**2,x)

[Out] Timed out

Maxima [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^3 (c + dx^n)^2} dx = \int \frac{(Bx^n + A)(ex)^m}{(bx^n + a)^3 (dx^n + c)^2} dx$$

[In] integrate((e*x)^m*(A+B*x^n)/(a+b*x^n)^3/(c+d*x^n)^2,x, algorithm="maxima")

[Out] (((m^2 - m*(3*n - 2) + 2*n^2 - 3*n + 1)*b^4*c^2*e^m - 2*(m^2 - m*(5*n - 2) + 4*n^2 - 5*n + 1)*a*b^3*c*d*e^m + (m^2 - m*(7*n - 2) + 12*n^2 - 7*n + 1)*a^2*b^2*d^2*e^m)*A - ((m^2 - m*(n - 2) - n + 1)*a*b^3*c^2*e^m - 2*(m^2 - m*(3*n - 2) - 3*n + 1)*a^2*b^2*c*d*e^m + (m^2 - m*(5*n - 2) + 6*n^2 - 5*n + 1)*a^3*b*d^2*e^m)*B)*integrate(1/2*x^m/(a^3*b^4*c^4*n^2 - 4*a^4*b^3*c^3*d*n^2 + 6*a^5*b^2*c^2*d^2*n^2 - 4*a^6*b*c*d^3*n^2 + a^7*d^4*n^2 + (a^2*b^5*c^4*n^2 - 4*a^3*b^4*c^3*d*n^2 + 6*a^4*b^3*c^2*d^2*n^2 - 4*a^5*b^2*c*d^3*n^2 + a^6*b*d^4*n^2)*x^n), x) - ((a*d^4*e^m*(m - n + 1) - b*c*d^3*e^m*(m - 4*n + 1))*A + (b*c^2*d^2*e^m*(m - 3*n + 1) - a*c*d^3*e^m*(m + 1))*B)*integrate(x^m/(b^4*c^6*n - 4*a*b^3*c^5*d*n + 6*a^2*b^2*c^4*d^2*n - 4*a^3*b*c^3*d^3*n + a^4*c^2*d^4*n + (b^4*c^5*d*n - 4*a*b^3*c^4*d^2*n + 6*a^2*b^2*c^3*d^3*n - 4*a^3*b*c^2*d^4*n + a^4*c*d^5*n)*x^n), x) - 1/2*(((a*b^3*c^3*e^m*(m - 3*n + 1) - a^2*b^2*c^2*d*e^m*(m - 7*n + 1) + 2*a^4*d^3*e^m*n)*A - (a^2*b^2*c^3*e^m*(m - n + 1) - a^3*b*c^2*d*e^m*(m - 5*n + 1) + 2*a^4*c*d^2*e^m*n)*B)*x*x^m + ((b^4*c^2*d*e^m*(m - 2*n + 1) - a*b^3*c*d^2*e^m*(m - 6*n + 1) + 2*a^2*b^2*d^3*e^m*n)*A + (a^2*b^2*c*d^2*e^m*(m - 6*n + 1) - a*b^3*c^2*d*e^m*(m + 1))*B)*x*e^(m*log(x) + 2*n*log(x)) + ((b^4*c^3*e^m*(m - 2*n + 1) - a^2*b^2*c*d^2*e^m*(m - 7*n + 1) + 3*a*b^3*c^2*d*e^m*n + 4*a^3*b*d^3*e^m*n)*A + (a^3*b*c*d^2*e^m*(m - 9*n + 1) - a*b^3*c^3*e^m*(m + 1) - 3*a^2*b^2*c^2*d*e^m*n)*B)*x*e^(m*log(x) + n*log(x)))/(a^4*b^3*c^5*n^2 - 3*a^5*b^2*c^4*d*n^2 + 3*a^6*b*c^3*d^2*n^2 - a^7*c^2*d^3*n^2 + (a^2*b^5*c^4*d*n^2 - 3*a^3*b^4*c^3*d^2*n^2 + 3*a^4*b^3*c^2*d^3*n^2 - a^5*b^2*c*d^4*n^2)*x^(3*n) + (a^2*b^5*c^5*n^2 - a^3*b^4*c^4*d*n^2 - 3*a^4*b^3*c^3*d^2*n^2 + 5*a^5*b^2*c^2*d^3*n^2 - 2*a^6*b*c*d^4*n^2)*x^(2*n) + (2*a^3*b^4*c^5*n^2 - 5*a^4*b^3*c^4*d*n^2 + 3*a^5*b^2*c^3*d^2*n^2 + a^6*b*c^2*d^3*n^2 - a^7*c*d^4*n^2)*x^n)

Giac [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^3 (c + dx^n)^2} dx = \int \frac{(Bx^n + A)(ex)^m}{(bx^n + a)^3 (dx^n + c)^2} dx$$

[In] integrate((e*x)^m*(A+B*x^n)/(a+b*x^n)^3/(c+d*x^n)^2,x, algorithm="giac")

[Out] integrate((B*x^n + A)*(e*x)^m/((b*x^n + a)^3*(d*x^n + c)^2), x)

Mupad [F(-1)]

Timed out.

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^3 (c + dx^n)^2} dx = \int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^3 (c + dx^n)^2} dx$$

[In] int(((e*x)^m*(A + B*x^n))/((a + b*x^n)^3*(c + d*x^n)^2),x)

[Out] int(((e*x)^m*(A + B*x^n))/((a + b*x^n)^3*(c + d*x^n)^2), x)

$$3.36 \quad \int \frac{(ex)^m (a+bx^n)^2 (A+Bx^n)}{(c+dx^n)^3} dx$$

Optimal result	1076
Rubi [A] (verified)	1077
Mathematica [A] (verified)	1079
Maple [F]	1079
Fricas [F]	1079
Sympy [F(-1)]	1080
Maxima [F]	1080
Giac [F]	1080
Mupad [F(-1)]	1081

Optimal result

Integrand size = 31, antiderivative size = 322

$$\begin{aligned} & \int \frac{(ex)^m (a+bx^n)^2 (A+Bx^n)}{(c+dx^n)^3} dx \\ &= \frac{b(ad(1+m) - bc(1+m+n))(Ad(1+m) - Bc(1+m+2n))(ex)^{1+m}}{2c^2d^3e(1+m)n^2} \\ & \quad - \frac{(Bc - Ad)(ex)^{1+m} (a+bx^n)^2}{2cde n (c+dx^n)^2} \\ & \quad - \frac{(bc - ad)(ex)^{1+m} (a(Bc(1+m) - Ad(1+m-2n)) - b(Ad(1+m) - Bc(1+m+2n))x^n)}{2c^2d^2en^2 (c+dx^n)} \\ & \quad + \frac{(ad(Bc(1+m) - Ad(1+m-2n))(bc(1+m) - ad(1+m-n)) - bc(ad(1+m) - bc(1+m+n))(Ad(1+m) - Bc(1+m+2n)))(ex)^{1+m}}{2c^3d^3e(1+m)n^2} \end{aligned}$$

```
[Out] 1/2*b*(a*d*(1+m)-b*c*(1+m+n))*(A*d*(1+m)-B*c*(1+m+2*n))*(e*x)^(1+m)/c^2/d^3
/e/(1+m)/n^2-1/2*(-A*d+B*c)*(e*x)^(1+m)*(a+b*x^n)^2/c/d/e/n/(c+d*x^n)^2-1/2
*(-a*d+b*c)*(e*x)^(1+m)*(a*(B*c*(1+m)-A*d*(1+m-2*n))-b*(A*d*(1+m)-B*c*(1+m+
2*n))*x^n/c^2/d^2/e/n^2/(c+d*x^n)+1/2*(a*d*(B*c*(1+m)-A*d*(1+m-2*n))*(b*c*
(1+m)-a*d*(1+m-n))-b*c*(a*d*(1+m)-b*c*(1+m+n))*(A*d*(1+m)-B*c*(1+m+2*n)))*(
e*x)^(1+m)*hypergeom([1, (1+m)/n], [(1+m+n)/n], -d*x^n/c)/c^3/d^3/e/(1+m)/n^2
```

Rubi [A] (verified)

Time = 0.35 (sec) , antiderivative size = 322, normalized size of antiderivative = 1.00,
 number of steps used = 4, number of rules used = 3, $\frac{\text{number of rules}}{\text{integrand size}} = 0.097$, Rules used
 = {608, 470, 371}

$$\int \frac{(ex)^m (a + bx^n)^2 (A + Bx^n)}{(c + dx^n)^3} dx$$

$$= \frac{(ex)^{m+1} \text{Hypergeometric2F1}\left(1, \frac{m+1}{n}, \frac{m+n+1}{n}, -\frac{dx^n}{c}\right) (ad(bc(m+1) - ad(m-n+1))(Bc(m+1) - Ad(m-n+1)) + bc(m+1) - ad(m-n+1))}{2c^3 d^3 e(m+1)n^2}$$

$$+ \frac{b(ex)^{m+1} (ad(m+1) - bc(m+n+1))(Ad(m+1) - Bc(m+2n+1))}{2c^2 d^3 e(m+1)n^2}$$

$$- \frac{(ex)^{m+1} (bc - ad) (a(Bc(m+1) - Ad(m-2n+1)) - bx^n (Ad(m+1) - Bc(m+2n+1)))}{2c^2 d^2 e n^2 (c + dx^n)}$$

$$- \frac{(ex)^{m+1} (a + bx^n)^2 (Bc - Ad)}{2c d e n (c + dx^n)^2}$$

[In] Int[((e*x)^m*(a + b*x^n)^2*(A + B*x^n))/(c + d*x^n)^3,x]

[Out] (b*(a*d*(1 + m) - b*c*(1 + m + n))*(A*d*(1 + m) - B*c*(1 + m + 2*n))*(e*x)^(1 + m)/(2*c^2*d^3*e*(1 + m)*n^2) - ((B*c - A*d)*(e*x)^(1 + m)*(a + b*x^n)^2)/(2*c*d*e*n*(c + d*x^n)^2) - ((b*c - a*d)*(e*x)^(1 + m)*(a*(B*c*(1 + m) - A*d*(1 + m - 2*n)) - b*(A*d*(1 + m) - B*c*(1 + m + 2*n))*x^n)/(2*c^2*d^2*e*n^2*(c + d*x^n)) + ((a*d*(B*c*(1 + m) - A*d*(1 + m - 2*n))*(b*c*(1 + m) - a*d*(1 + m - n)) - b*c*(a*d*(1 + m) - b*c*(1 + m + n))*(A*d*(1 + m) - B*c*(1 + m + 2*n))*(e*x)^(1 + m)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -(d*x^n/c)])/(2*c^3*d^3*e*(1 + m)*n^2)

Rule 371

Int[((c_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_.))^(p_), x_Symbol] :> Simp[a^p * ((c*x)^(m+1)/(c*(m+1)))*Hypergeometric2F1[-p, (m+1)/n, (m+1)/n+1, (-b)*(x^n/a)], x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILtQ[p, 0] || GtQ[a, 0])

Rule 470

Int[((e_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_.))^(p_.)*((c_) + (d_.)*(x_)^(n_.)), x_Symbol] :> Simp[d*(e*x)^(m+1)*((a + b*x^n)^(p+1)/(b*e*(m+n*(p+1)+1))), x] - Dist[(a*d*(m+1) - b*c*(m+n*(p+1)+1))/(b*(m+n*(p+1)+1)), Int[(e*x)^m*(a + b*x^n)^p, x], x] /; FreeQ[{a, b, c, d, e, m, n, p}, x] && NeQ[b*c - a*d, 0] && NeQ[m + n*(p+1) + 1, 0]

Rule 608

```

Int[((g_.)*(x_))^(m_.)*((a_.) + (b_.)*(x_)^(n_))^(p_)*((c_.) + (d_.)*(x_)^(n_))^(q_.)*((e_.) + (f_.)*(x_)^(n_)), x_Symbol] := Simp[(-(b*e - a*f))*(g*x)^(m + 1)*(a + b*x^n)^(p + 1)*((c + d*x^n)^q/(a*b*g*n*(p + 1))), x] + Dist[1/(a*b*n*(p + 1)), Int[(g*x)^m*(a + b*x^n)^(p + 1)*(c + d*x^n)^(q - 1)*Simp[c*(b*e*n*(p + 1) + (b*e - a*f)*(m + 1)) + d*(b*e*n*(p + 1) + (b*e - a*f)*(m + n*q + 1))*x^n, x], x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n}, x] && LtQ[p, -1] && GtQ[q, 0] && !(EqQ[q, 1] && SimplerQ[b*c - a*d, b*e - a*f])

```

Rubi steps

$$\begin{aligned}
\text{integral} &= -\frac{(Bc - Ad)(ex)^{1+m} (a + bx^n)^2}{2cden (c + dx^n)^2} \\
&\quad - \frac{\int \frac{(ex)^m (a+bx^n)(-a(Bc(1+m)-Ad(1+m-2n))+b(Ad(1+m)-Bc(1+m+2n))x^n)}{(c+dx^n)^2} dx}{2cdn} \\
&= -\frac{(Bc - Ad)(ex)^{1+m} (a + bx^n)^2}{2cden (c + dx^n)^2} \\
&\quad - \frac{(bc - ad)(ex)^{1+m} (a(Bc(1 + m) - Ad(1 + m - 2n)) - b(Ad(1 + m) - Bc(1 + m + 2n))x^n)}{2c^2d^2en^2 (c + dx^n)} \\
&\quad + \frac{\int \frac{(ex)^m (a(Bc(1+m)-Ad(1+m-2n))(bc(1+m)-ad(1+m-n))+b(ad(1+m)-bc(1+m+n))(Ad(1+m)-Bc(1+m+2n))x^n)}{c+dx^n} dx}{2c^2d^2n^2} \\
&= \frac{b(ad(1 + m) - bc(1 + m + n))(Ad(1 + m) - Bc(1 + m + 2n))(ex)^{1+m}}{2c^2d^3e(1 + m)n^2} \\
&\quad - \frac{(Bc - Ad)(ex)^{1+m} (a + bx^n)^2}{2cden (c + dx^n)^2} \\
&\quad - \frac{(bc - ad)(ex)^{1+m} (a(Bc(1 + m) - Ad(1 + m - 2n)) - b(Ad(1 + m) - Bc(1 + m + 2n))x^n)}{2c^2d^2en^2 (c + dx^n)} \\
&\quad + \frac{(a(Bc(1 + m) - Ad(1 + m - 2n))(bc(1 + m) - ad(1 + m - n)) - \frac{bc(ad(1+m)-bc(1+m+n))(Ad(1+m)-Bc(1+m+2n))}{d})}{2c^2d^2n^2} \\
&= \frac{b(ad(1 + m) - bc(1 + m + n))(Ad(1 + m) - Bc(1 + m + 2n))(ex)^{1+m}}{2c^2d^3e(1 + m)n^2} \\
&\quad - \frac{(Bc - Ad)(ex)^{1+m} (a + bx^n)^2}{2cden (c + dx^n)^2} \\
&\quad - \frac{(bc - ad)(ex)^{1+m} (a(Bc(1 + m) - Ad(1 + m - 2n)) - b(Ad(1 + m) - Bc(1 + m + 2n))x^n)}{2c^2d^2en^2 (c + dx^n)} \\
&\quad + \frac{(a(Bc(1 + m) - Ad(1 + m - 2n))(bc(1 + m) - ad(1 + m - n)) - \frac{bc(ad(1+m)-bc(1+m+n))(Ad(1+m)-Bc(1+m+2n))}{d})}{2c^3d^2e(1 + m)n^2}
\end{aligned}$$

Mathematica [A] (verified)

Time = 0.70 (sec) , antiderivative size = 172, normalized size of antiderivative = 0.53

$$\int \frac{(ex)^m (a + bx^n)^2 (A + Bx^n)}{(c + dx^n)^3} dx$$

$$= \frac{x(ex)^m \left(b^2 B - \frac{b(3bBc - Abd - 2aBd) \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{dx^n}{c}\right)}{c} + \frac{(bc-ad)(3bBc - 2Abd - aBd) \operatorname{Hypergeometric2F1}\left(2, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{dx^n}{c}\right)}{c^2} \right)}{d^3(1+m)}$$

[In] Integrate[((e*x)^m*(a + b*x^n)^2*(A + B*x^n))/(c + d*x^n)^3,x]

```
[Out] (x*(e*x)^m*(b^2*B - (b*(3*b*B*c - A*b*d - 2*a*B*d)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -((d*x^n)/c)])/c + ((b*c - a*d)*(3*b*B*c - 2*A*b*d - a*B*d)*Hypergeometric2F1[2, (1 + m)/n, (1 + m + n)/n, -((d*x^n)/c)])/c^2 - ((b*c - a*d)^2*(B*c - A*d)*Hypergeometric2F1[3, (1 + m)/n, (1 + m + n)/n, -((d*x^n)/c)]/c^3))/(d^3*(1 + m))
```

Maple [F]

$$\int \frac{(ex)^m (a + bx^n)^2 (A + Bx^n)}{(c + dx^n)^3} dx$$

[In] int((e*x)^m*(a+b*x^n)^2*(A+B*x^n)/(c+d*x^n)^3,x)

[Out] int((e*x)^m*(a+b*x^n)^2*(A+B*x^n)/(c+d*x^n)^3,x)

Fricas [F]

$$\int \frac{(ex)^m (a + bx^n)^2 (A + Bx^n)}{(c + dx^n)^3} dx = \int \frac{(Bx^n + A)(bx^n + a)^2 (ex)^m}{(dx^n + c)^3} dx$$

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

```
[Out] integral((B*b^2*x^(3*n) + A*a^2 + (2*B*a*b + A*b^2)*x^(2*n) + (B*a^2 + 2*A*a*b)*x^n)*(e*x)^m/(d^3*x^(3*n) + 3*c*d^2*x^(2*n) + 3*c^2*d*x^n + c^3), x)
```

Sympy [F(-1)]

Timed out.

$$\int \frac{(ex)^m (a + bx^n)^2 (A + Bx^n)}{(c + dx^n)^3} dx = \text{Timed out}$$

[In] integrate((e*x)**m*(a+b*x**n)**2*(A+B*x**n)/(c+d*x**n)**3,x)

[Out] Timed out

Maxima [F]

$$\int \frac{(ex)^m (a + bx^n)^2 (A + Bx^n)}{(c + dx^n)^3} dx = \int \frac{(Bx^n + A)(bx^n + a)^2 (ex)^m}{(dx^n + c)^3} dx$$

[In] integrate((e*x)^m*(a+b*x^n)^2*(A+B*x^n)/(c+d*x^n)^3,x, algorithm="maxima")

[Out] (((m^2 + m*(n + 2) + n + 1)*b^2*c^2*d*e^m - 2*(m^2 - m*(n - 2) - n + 1)*a*b*c*d^2*e^m + (m^2 - m*(3*n - 2) + 2*n^2 - 3*n + 1)*a^2*d^3*e^m)*A - ((m^2 + m*(3*n + 2) + 2*n^2 + 3*n + 1)*b^2*c^3*e^m - 2*(m^2 + m*(n + 2) + n + 1)*a*b*c^2*d*e^m + (m^2 - m*(n - 2) - n + 1)*a^2*c*d^2*e^m)*B)*integrate(1/2*x^m/(c^2*d^4*n^2*x^n + c^3*d^3*n^2), x) + 1/2*(2*B*b^2*c^2*d^2*e^m*n^2*x*e^(m*log(x) + 2*n*log(x)) - ((m^2 + m*(n + 2) + n + 1)*b^2*c^3*d*e^m - 2*(m^2 - m*(n - 2) - n + 1)*a*b*c^2*d^2*e^m + (m^2 - m*(3*n - 2) - 3*n + 1)*a^2*c*d^3*e^m)*A - ((m^2 + m*(3*n + 2) + 2*n^2 + 3*n + 1)*b^2*c^4*e^m - 2*(m^2 + m*(n + 2) + n + 1)*a*b*c^3*d*e^m + (m^2 - m*(n - 2) - n + 1)*a^2*c^2*d^2*e^m)*B)*x*x^m - (((m^2 + 2*m*(n + 1) + 2*n + 1)*b^2*c^2*d^2*e^m - 2*(m^2 + 2*m + 1)*a*b*c*d^3*e^m + (m^2 - 2*m*(n - 1) - 2*n + 1)*a^2*d^4*e^m)*A - ((m^2 + 2*m*(2*n + 1) + 4*n^2 + 4*n + 1)*b^2*c^3*d*e^m - 2*(m^2 + 2*m*(n + 1) + 2*n + 1)*a*b*c^2*d^2*e^m + (m^2 + 2*m + 1)*a^2*c*d^3*e^m)*B)*x*e^(m*log(x) + n*log(x)))/((m*n^2 + n^2)*c^2*d^5*x^(2*n) + 2*(m*n^2 + n^2)*c^3*d^4*x^n + (m*n^2 + n^2)*c^4*d^3)

Giac [F]

$$\int \frac{(ex)^m (a + bx^n)^2 (A + Bx^n)}{(c + dx^n)^3} dx = \int \frac{(Bx^n + A)(bx^n + a)^2 (ex)^m}{(dx^n + c)^3} dx$$

[In] integrate((e*x)^m*(a+b*x^n)^2*(A+B*x^n)/(c+d*x^n)^3,x, algorithm="giac")

[Out] integrate((B*x^n + A)*(b*x^n + a)^2*(e*x)^m/(d*x^n + c)^3, x)

Mupad [F(-1)]

Timed out.

$$\int \frac{(ex)^m (a + bx^n)^2 (A + Bx^n)}{(c + dx^n)^3} dx = \int \frac{(ex)^m (A + Bx^n) (a + bx^n)^2}{(c + dx^n)^3} dx$$

```
[In] int(((e*x)^m*(A + B*x^n)*(a + b*x^n)^2)/(c + d*x^n)^3,x)
```

```
[Out] int(((e*x)^m*(A + B*x^n)*(a + b*x^n)^2)/(c + d*x^n)^3, x)
```

$$3.37 \quad \int \frac{(ex)^m (a+bx^n)(A+Bx^n)}{(c+dx^n)^3} dx$$

Optimal result	1082
Rubi [A] (verified)	1083
Mathematica [A] (verified)	1084
Maple [F]	1085
Fricas [F]	1085
Sympy [F(-1)]	1085
Maxima [F]	1085
Giac [F]	1086
Mupad [F(-1)]	1086

Optimal result

Integrand size = 29, antiderivative size = 228

$$\int \frac{(ex)^m (a+bx^n)(A+Bx^n)}{(c+dx^n)^3} dx = -\frac{(bc-ad)(ex)^{1+m}(A+Bx^n)}{2cde n(c+dx^n)^2} - \frac{(ad(Ad(1+m-2n)-Bc(1+m-n))-bc(Ad(1+m)-Bc(1+m+n)))(ex)^{1+m}}{2c^2d^2en^2(c+dx^n)} - \frac{(Ad(bc(1+m)-ad(1+m-2n))(1+m-n)+Bc(1+m)(ad(1+m)-bc(1+m+n)))(ex)^{1+m}}{2c^3d^2e(1+m)n^2}$$

```
[Out] -1/2*(-a*d+b*c)*(e*x)^(1+m)*(A+B*x^n)/c/d/e/n/(c+d*x^n)^2-1/2*(a*d*(A*d*(1+m-2*n)-B*c*(1+m-n))-b*c*(A*d*(1+m)-B*c*(1+m+n))*(e*x)^(1+m)/c^2/d^2/e/n^2/(c+d*x^n)-1/2*(A*d*(b*c*(1+m)-a*d*(1+m-2*n))*(1+m-n)+B*c*(1+m)*(a*d*(1+m-n)-b*c*(1+m+n))*(e*x)^(1+m)*hypergeom([1, (1+m)/n], [(1+m+n)/n], -d*x^n/c)/c^3/d^2/e/(1+m)/n^2
```

Rubi [A] (verified)

Time = 0.18 (sec) , antiderivative size = 227, normalized size of antiderivative = 1.00, number of steps used = 3, number of rules used = 3, $\frac{\text{number of rules}}{\text{integrand size}} = 0.103$, Rules used = {608, 468, 371}

$$\int \frac{(ex)^m (a + bx^n) (A + Bx^n)}{(c + dx^n)^3} dx =$$

$$\frac{(ex)^{m+1} \text{Hypergeometric2F1}\left(1, \frac{m+1}{n}, \frac{m+n+1}{n}, -\frac{dx^n}{c}\right) (Ad(m-n+1)(bc(m+1) - ad(m-2n+1)) + Bc(ad(m-n+1) - bc(m+n+1)))}{2c^3 d^2 e (m+1) n^2}$$

$$+ \frac{(ex)^{m+1} (Ad(bc(m+1) - ad(m-2n+1)) + Bc(ad(m-n+1) - bc(m+n+1)))}{2c^2 d^2 e n^2 (c + dx^n)}$$

$$- \frac{(ex)^{m+1} (bc - ad) (A + Bx^n)}{2c d e n (c + dx^n)^2}$$

[In] Int[((e*x)^m*(a + b*x^n)*(A + B*x^n))/(c + d*x^n)^3,x]

[Out] -1/2*((b*c - a*d)*(e*x)^(1 + m)*(A + B*x^n))/(c*d*e*n*(c + d*x^n)^2) + ((A*d*(b*c*(1 + m) - a*d*(1 + m - 2*n)) + B*c*(a*d*(1 + m - n) - b*c*(1 + m + n)))*(e*x)^(1 + m))/(2*c^2*d^2*e*n^2*(c + d*x^n)) - ((A*d*(b*c*(1 + m) - a*d*(1 + m - 2*n))*(1 + m - n) + B*c*(1 + m)*(a*d*(1 + m - n) - b*c*(1 + m + n)))*(e*x)^(1 + m)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -(d*x^n)/c])/(2*c^3*d^2*e*(1 + m)*n^2)

Rule 371

Int[((c_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_), x_Symbol] :> Simp[a^p*((c*x)^(m + 1)/(c*(m + 1)))*Hypergeometric2F1[-p, (m + 1)/n, (m + 1)/n + 1, (-b)*(x^n/a)], x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILtQ[p, 0] || GtQ[a, 0])

Rule 468

Int[((e_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_.)*((c_) + (d_.)*(x_)^(n_)), x_Symbol] :> Simp[(-b*c - a*d)*(e*x)^(m + 1)*((a + b*x^n)^(p + 1)/(a*b*e*n*(p + 1))), x] - Dist[(a*d*(m + 1) - b*c*(m + n*(p + 1) + 1))/(a*b*n*(p + 1)), Int[(e*x)^m*(a + b*x^n)^(p + 1), x], x] /; FreeQ[{a, b, c, d, e, m, n}, x] && NeQ[b*c - a*d, 0] && LtQ[p, -1] && ((!IntegerQ[p + 1/2] && NeQ[p, -5/4]) || !RationalQ[m] || (IGtQ[n, 0] && ILtQ[p + 1/2, 0] && LeQ[-1, m, (-n)*(p + 1)]))

Rule 608

Int[((g_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_.)*((c_) + (d_.)*(x_)^(n_))^(q_.)*((e_) + (f_.)*(x_)^(n_)), x_Symbol] :> Simp[(-b*e - a*f)*(g*x)^(m + 1)*(a + b*x^n)^(p + 1)*((c + d*x^n)^q/(a*b*g*n*(p + 1))), x] + Dist[1/(

$a*b*n*(p + 1)$, Int[(g*x)^m*(a + b*x^n)^(p + 1)*(c + d*x^n)^(q - 1)*Simp[c*(b*e*n*(p + 1) + (b*e - a*f)*(m + 1)) + d*(b*e*n*(p + 1) + (b*e - a*f)*(m + n*q + 1))*x^n, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n}, x] && LtQ[p, -1] && GtQ[q, 0] && !(EqQ[q, 1] && SimplerQ[b*c - a*d, b*e - a*f])

Rubi steps

$$\begin{aligned} \text{integral} &= -\frac{(bc - ad)(ex)^{1+m} (A + Bx^n)}{2cden (c + dx^n)^2} \\ &\quad - \frac{\int \frac{(ex)^m (-A(bc(1+m) - ad(1+m-2n)) + B(ad(1+m-n) - bc(1+m+n))x^n}{(c+dx^n)^2} dx}{2cdn} \\ &= -\frac{(bc - ad)(ex)^{1+m} (A + Bx^n)}{2cden (c + dx^n)^2} \\ &\quad + \frac{(Ad(bc(1+m) - ad(1+m-2n)) + Bc(ad(1+m-n) - bc(1+m+n)))(ex)^{1+m}}{2c^2d^2en^2 (c + dx^n)} \\ &\quad - \frac{(Ad(bc(1+m) - ad(1+m-2n))(1+m-n) + Bc(1+m)(ad(1+m-n) - bc(1+m+n)))}{2c^2d^2n^2} \\ &= -\frac{(bc - ad)(ex)^{1+m} (A + Bx^n)}{2cden (c + dx^n)^2} \\ &\quad + \frac{(Ad(bc(1+m) - ad(1+m-2n)) + Bc(ad(1+m-n) - bc(1+m+n)))(ex)^{1+m}}{2c^2d^2en^2 (c + dx^n)} \\ &\quad - \frac{(Ad(bc(1+m) - ad(1+m-2n))(1+m-n) + Bc(1+m)(ad(1+m-n) - bc(1+m+n)))}{2c^3d^2e(1+m)n^2} \end{aligned}$$

Mathematica [A] (verified)

Time = 0.43 (sec) , antiderivative size = 136, normalized size of antiderivative = 0.60

$$\begin{aligned} &\int \frac{(ex)^m (a + bx^n) (A + Bx^n)}{(c + dx^n)^3} dx \\ &= \frac{x(ex)^m (bBc^2 \text{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{dx^n}{c}\right) + c(-2bBc + Abd + aBd) \text{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{dx^n}{c}\right) + (b*c - a*d)*(B*c - A*d)*\text{Hypergeometric2F1}\left(3, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{dx^n}{c}\right))}{c^3d^2(1+m)} \end{aligned}$$

[In] Integrate[((e*x)^m*(a + b*x^n)*(A + B*x^n))/(c + d*x^n)^3,x]

[Out] (x*(e*x)^m*(b*B*c^2*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -((d*x^n)/c)] + c*(-2*b*B*c + A*b*d + a*B*d)*Hypergeometric2F1[2, (1 + m)/n, (1 + m + n)/n, -((d*x^n)/c)] + (b*c - a*d)*(B*c - A*d)*Hypergeometric2F1[3, (1 + m)/n, (1 + m + n)/n, -((d*x^n)/c)])/(c^3*d^2*(1 + m))

Maple [F]

$$\int \frac{(ex)^m (a + bx^n) (A + Bx^n)}{(c + dx^n)^3} dx$$

[In] int((e*x)^m*(a+b*x^n)*(A+B*x^n)/(c+d*x^n)^3,x)

[Out] int((e*x)^m*(a+b*x^n)*(A+B*x^n)/(c+d*x^n)^3,x)

Fricas [F]

$$\int \frac{(ex)^m (a + bx^n) (A + Bx^n)}{(c + dx^n)^3} dx = \int \frac{(Bx^n + A)(bx^n + a)(ex)^m}{(dx^n + c)^3} dx$$

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

[Out] integral((B*b*x^(2*n) + A*a + (B*a + A*b)*x^n)*(e*x)^m/(d^3*x^(3*n) + 3*c*d^2*x^(2*n) + 3*c^2*d*x^n + c^3), x)

Sympy [F(-1)]

Timed out.

$$\int \frac{(ex)^m (a + bx^n) (A + Bx^n)}{(c + dx^n)^3} dx = \text{Timed out}$$

[In] integrate((e*x)**m*(a+b*x**n)*(A+B*x**n)/(c+d*x**n)**3,x)

[Out] Timed out

Maxima [F]

$$\int \frac{(ex)^m (a + bx^n) (A + Bx^n)}{(c + dx^n)^3} dx = \int \frac{(Bx^n + A)(bx^n + a)(ex)^m}{(dx^n + c)^3} dx$$

[In] integrate((e*x)^m*(a+b*x^n)*(A+B*x^n)/(c+d*x^n)^3,x, algorithm="maxima")

[Out] -(((m^2 - m*(n - 2) - n + 1)*b*c*d*e^m - (m^2 - m*(3*n - 2) + 2*n^2 - 3*n + 1)*a*d^2*e^m)*A - ((m^2 + m*(n + 2) + n + 1)*b*c^2*e^m - (m^2 - m*(n - 2) - n + 1)*a*c*d*e^m)*B)*integrate(1/2*x^m/(c^2*d^3*n^2*x^n + c^3*d^2*n^2), x) + 1/2*(((b*c^2*d*e^m*(m - n + 1) - a*c*d^2*e^m*(m - 3*n + 1))*A - (b*c^3*e^m*(m + n + 1) - a*c^2*d*e^m*(m - n + 1))*B)*x*x^m - ((a*d^3*e^m*(m - 2*n + 1) - b*c*d^2*e^m*(m + 1))*A + (b*c^2*d*e^m*(m + 2*n + 1) - a*c*d^2*e^m*(m + 1))*B)*x*e^(m*log(x) + n*log(x)))/(c^2*d^4*n^2*x^(2*n) + 2*c^3*d^3*n^2*x^n + c^4*d^2*n^2)

Giac [F]

$$\int \frac{(ex)^m (a + bx^n) (A + Bx^n)}{(c + dx^n)^3} dx = \int \frac{(Bx^n + A)(bx^n + a)(ex)^m}{(dx^n + c)^3} dx$$

[In] integrate((e*x)^m*(a+b*x^n)*(A+B*x^n)/(c+d*x^n)^3,x, algorithm="giac")

[Out] integrate((B*x^n + A)*(b*x^n + a)*(e*x)^m/(d*x^n + c)^3, x)

Mupad [F(-1)]

Timed out.

$$\int \frac{(ex)^m (a + bx^n) (A + Bx^n)}{(c + dx^n)^3} dx = \int \frac{(ex)^m (A + Bx^n) (a + bx^n)}{(c + dx^n)^3} dx$$

[In] int(((e*x)^m*(A + B*x^n)*(a + b*x^n))/(c + d*x^n)^3,x)

[Out] int(((e*x)^m*(A + B*x^n)*(a + b*x^n))/(c + d*x^n)^3, x)

$$3.38 \quad \int \frac{(ex)^m (A+Bx^n)}{(c+dx^n)^3} dx$$

Optimal result	1087
Rubi [A] (verified)	1087
Mathematica [A] (verified)	1088
Maple [F]	1089
Fricas [F]	1089
Sympy [F(-1)]	1089
Maxima [F]	1089
Giac [F]	1090
Mupad [F(-1)]	1090

Optimal result

Integrand size = 22, antiderivative size = 112

$$\begin{aligned} & \int \frac{(ex)^m (A + Bx^n)}{(c + dx^n)^3} dx \\ &= -\frac{(Bc - Ad)(ex)^{1+m}}{2cde n (c + dx^n)^2} \\ &+ \frac{(Bc(1+m) - Ad(1+m-2n))(ex)^{1+m} \operatorname{Hypergeometric2F1}\left(2, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{dx^n}{c}\right)}{2c^3 de (1+m)n} \end{aligned}$$

[Out] $-1/2*(-A*d+B*c)*(e*x)^{(1+m)}/c/d/e/n/(c+d*x^n)^2+1/2*(B*c*(1+m)-A*d*(1+m-2*n))*(e*x)^{(1+m)*\operatorname{hypergeom}([2, (1+m)/n], [(1+m+n)/n], -d*x^n/c)/c^3/d/e/(1+m)/n$

Rubi [A] (verified)

Time = 0.04 (sec) , antiderivative size = 112, normalized size of antiderivative = 1.00, number of steps used = 2, number of rules used = 2, $\frac{\text{number of rules}}{\text{integrand size}} = 0.091$, Rules used = {468, 371}

$$\begin{aligned} & \int \frac{(ex)^m (A + Bx^n)}{(c + dx^n)^3} dx \\ &= \frac{(ex)^{m+1}(Bc(m+1) - Ad(m-2n+1)) \operatorname{Hypergeometric2F1}\left(2, \frac{m+1}{n}, \frac{m+n+1}{n}, -\frac{dx^n}{c}\right)}{2c^3 de (m+1)n} \\ &- \frac{(ex)^{m+1}(Bc - Ad)}{2cde n (c + dx^n)^2} \end{aligned}$$

[In] $\operatorname{Int}[\frac{(e*x)^m*(A + B*x^n)}{(c + d*x^n)^3}, x]$

[Out] $-1/2*((B*c - A*d)*(e*x)^(1 + m))/(c*d*e*n*(c + d*x^n)^2) + ((B*c*(1 + m) - A*d*(1 + m - 2*n))*(e*x)^(1 + m)*Hypergeometric2F1[2, (1 + m)/n, (1 + m + n)/n, -((d*x^n)/c)]/(2*c^3*d*e*(1 + m)*n)$

Rule 371

Int[((c_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Simp[a^p*((c*x)^(m + 1)/(c*(m + 1)))*Hypergeometric2F1[-p, (m + 1)/n, (m + 1)/n + 1, (-b)*(x^n/a)], x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILtQ[p, 0] || GtQ[a, 0])

Rule 468

Int[((e_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_)), x_Symbol] := Simp[(-b*c - a*d)*(e*x)^(m + 1)*((a + b*x^n)^(p + 1)/(a*b*e*n*(p + 1))), x] - Dist[(a*d*(m + 1) - b*c*(m + n*(p + 1) + 1))/(a*b*n*(p + 1)), Int[(e*x)^m*(a + b*x^n)^(p + 1), x], x] /; FreeQ[{a, b, c, d, e, m, n}, x] && NeQ[b*c - a*d, 0] && LtQ[p, -1] && ((!IntegerQ[p + 1/2] && NeQ[p, -5/4]) || !RationalQ[m] || (IGtQ[n, 0] && ILtQ[p + 1/2, 0] && LeQ[-1, m, (-n)*(p + 1)]))

Rubi steps

$$\begin{aligned} \text{integral} &= -\frac{(Bc - Ad)(ex)^{1+m}}{2cdn(c + dx^n)^2} + \frac{(Bc(1 + m) - Ad(1 + m - 2n)) \int \frac{(ex)^m}{(c + dx^n)^2} dx}{2cdn} \\ &= -\frac{(Bc - Ad)(ex)^{1+m}}{2cdn(c + dx^n)^2} + \frac{(Bc(1 + m) - Ad(1 + m - 2n))(ex)^{1+m} {}_2F_1\left(2, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{dx^n}{c}\right)}{2c^3de(1 + m)n} \end{aligned}$$

Mathematica [A] (verified)

Time = 0.14 (sec) , antiderivative size = 83, normalized size of antiderivative = 0.74

$$\begin{aligned} &\int \frac{(ex)^m (A + Bx^n)}{(c + dx^n)^3} dx \\ &= \frac{x(ex)^m \left(Bc \operatorname{Hypergeometric2F1}\left(2, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{dx^n}{c}\right) + (-Bc + Ad) \operatorname{Hypergeometric2F1}\left(3, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{dx^n}{c}\right) \right)}{c^3d(1 + m)} \end{aligned}$$

[In] Integrate[((e*x)^m*(A + B*x^n))/(c + d*x^n)^3,x]

[Out] (x*(e*x)^m*(B*c*Hypergeometric2F1[2, (1 + m)/n, (1 + m + n)/n, -((d*x^n)/c)] + (-B*c) + A*d)*Hypergeometric2F1[3, (1 + m)/n, (1 + m + n)/n, -((d*x^n)/c)]/(c^3*d*(1 + m))

Maple [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(c + dx^n)^3} dx$$

[In] int((e*x)^m*(A+B*x^n)/(c+d*x^n)^3,x)

[Out] int((e*x)^m*(A+B*x^n)/(c+d*x^n)^3,x)

Fricas [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(c + dx^n)^3} dx = \int \frac{(Bx^n + A)(ex)^m}{(dx^n + c)^3} dx$$

[In] integrate((e*x)^m*(A+B*x^n)/(c+d*x^n)^3,x, algorithm="fricas")

[Out] integral((B*x^n + A)*(e*x)^m/(d^3*x^(3*n) + 3*c*d^2*x^(2*n) + 3*c^2*d*x^n + c^3), x)

Sympy [F(-1)]

Timed out.

$$\int \frac{(ex)^m (A + Bx^n)}{(c + dx^n)^3} dx = \text{Timed out}$$

[In] integrate((e*x)**m*(A+B*x**n)/(c+d*x**n)**3,x)

[Out] Timed out

Maxima [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(c + dx^n)^3} dx = \int \frac{(Bx^n + A)(ex)^m}{(dx^n + c)^3} dx$$

[In] integrate((e*x)^m*(A+B*x^n)/(c+d*x^n)^3,x, algorithm="maxima")

[Out] -((m^2 - m*(n - 2) - n + 1)*B*c*e^m - (m^2 - m*(3*n - 2) + 2*n^2 - 3*n + 1)*A*d*e^m)*integrate(1/2*x^m/(c^2*d^2*n^2*x^n + c^3*d*n^2), x) + 1/2*((B*c^2*e^m*(m - n + 1) - A*c*d*e^m*(m - 3*n + 1))*x*x^m - (A*d^2*e^m*(m - 2*n + 1) - B*c*d*e^m*(m + 1))*x*e^(m*log(x) + n*log(x)))/(c^2*d^3*n^2*x^(2*n) + 2*c^3*d^2*n^2*x^n + c^4*d*n^2)

Giac [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(c + dx^n)^3} dx = \int \frac{(Bx^n + A)(ex)^m}{(dx^n + c)^3} dx$$

[In] integrate((e*x)^m*(A+B*x^n)/(c+d*x^n)^3,x, algorithm="giac")

[Out] integrate((B*x^n + A)*(e*x)^m/(d*x^n + c)^3, x)

Mupad [F(-1)]

Timed out.

$$\int \frac{(ex)^m (A + Bx^n)}{(c + dx^n)^3} dx = \int \frac{(ex)^m (A + Bx^n)}{(c + dx^n)^3} dx$$

[In] int(((e*x)^m*(A + B*x^n))/(c + d*x^n)^3,x)

[Out] int(((e*x)^m*(A + B*x^n))/(c + d*x^n)^3, x)

$$3.39 \quad \int \frac{(ex)^m(A+Bx^n)}{(a+bx^n)(c+dx^n)^3} dx$$

Optimal result	. . . . .	1091
Rubi [A] (verified)	. . . . .	1092
Mathematica [A] (verified)	. . . . .	1094
Maple [F]	. . . . .	1094
Fricas [F]	. . . . .	1095
Sympy [F(-2)]	. . . . .	1095
Maxima [F]	. . . . .	1095
Giac [F]	. . . . .	1096
Mupad [F(-1)]	. . . . .	1096

Optimal result

Integrand size = 31, antiderivative size = 366

$$\int \frac{(ex)^m(A+Bx^n)}{(a+bx^n)(c+dx^n)^3} dx = \frac{(Bc-Ad)(ex)^{1+m}}{2c(bc-ad)en(c+dx^n)^2} + \frac{(bc(Ad(1+m-4n)-Bc(1+m-2n))+ad(Bc(1+m)-Ad(1+m-2n)))(ex)^{1+m}}{2c^2(bc-ad)^2en^2(c+dx^n)} + \frac{b^2(Ab-aB)(ex)^{1+m} \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{bx^n}{a}\right)}{a(bc-ad)^3e(1+m)} - \frac{(b^2c^2(Ad(1+m-3n)-Bc(1+m-n))(1+m-2n)-a^2d^2(Bc(1+m)-Ad(1+m-2n))(1+m-2n))}{a^2d^2(Bc(1+m)-Ad(1+m-2n))(1+m-2n)}$$

```
[Out] 1/2*(-A*d+B*c)*(e*x)^(1+m)/c/(-a*d+b*c)/e/n/(c+d*x^n)^2+1/2*(b*c*(A*d*(1+m-4*n)-B*c*(1+m-2*n))+a*d*(B*c*(1+m)-A*d*(1+m-2*n))*(e*x)^(1+m)/c^2/(-a*d+b*c)^2/e/n^2/(c+d*x^n)+b^2*(A*b-B*a)*(e*x)^(1+m)*hypergeom([1, (1+m)/n], [(1+m+n)/n], -b*x^n/a)/a/(-a*d+b*c)^3/e/(1+m)-1/2*(b^2*c^2*(A*d*(1+m-3*n)-B*c*(1+m-n))*(1+m-2*n)-a^2*d^2*(B*c*(1+m)-A*d*(1+m-2*n))*(1+m-n)+2*a*b*c*d*(B*c*(1+m)*(1+m-2*n)-A*d*(1+m^2+m*(2-4*n)-4*n+3*n^2))*(e*x)^(1+m)*hypergeom([1, (1+m)/n], [(1+m+n)/n], -d*x^n/c)/c^3/(-a*d+b*c)^3/e/(1+m)/n^2
```

Rubi [A] (verified)

Time = 0.77 (sec) , antiderivative size = 366, normalized size of antiderivative = 1.00, number of steps used = 6, number of rules used = 3, $\frac{\text{number of rules}}{\text{integrand size}} = 0.097$, Rules used = {609, 611, 371}

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)(c + dx^n)^3} dx =$$

$$\frac{(ex)^{m+1} \text{Hypergeometric2F1}\left(1, \frac{m+1}{n}, \frac{m+n+1}{n}, -\frac{dx^n}{c}\right) (-a^2 d^2 (m-n+1)(Bc(m+1) - Ad(m-2n+1)))}{ae(m+1)(bc-ad)^3}$$

$$+ \frac{b^2 (ex)^{m+1} (Ab - aB) \text{Hypergeometric2F1}\left(1, \frac{m+1}{n}, \frac{m+n+1}{n}, -\frac{bx^n}{a}\right)}{ae(m+1)(bc-ad)^3}$$

$$+ \frac{(ex)^{m+1} (ad(Bc(m+1) - Ad(m-2n+1)) + bc(Ad(m-4n+1) - Bc(m-2n+1)))}{2c^2 en^2 (bc-ad)^2 (c+dx^n)}$$

$$+ \frac{(ex)^{m+1} (Bc - Ad)}{2cen(bc-ad)(c+dx^n)^2}$$

[In] Int[((e*x)^m*(A + B*x^n))/((a + b*x^n)*(c + d*x^n)^3),x]

[Out] ((B*c - A*d)*(e*x)^(1 + m))/(2*c*(b*c - a*d)*e*n*(c + d*x^n)^2) + ((b*c*(A*d*(1 + m - 4*n) - B*c*(1 + m - 2*n)) + a*d*(B*c*(1 + m) - A*d*(1 + m - 2*n)))*(e*x)^(1 + m))/(2*c^2*(b*c - a*d)^2*e*n^2*(c + d*x^n)) + (b^2*(A*b - a*B)*(e*x)^(1 + m)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -(b*x^n)/a])/((a*(b*c - a*d)^3*e*(1 + m)) - ((b^2*c^2*(A*d*(1 + m - 3*n) - B*c*(1 + m - n))*(1 + m - 2*n) - a^2*d^2*(B*c*(1 + m) - A*d*(1 + m - 2*n))*(1 + m - n) + 2*a*b*c*d*(B*c*(1 + m)*(1 + m - 2*n) - A*d*(1 + m)^2 + m*(2 - 4*n) - 4*n + 3*n^2)))*(e*x)^(1 + m)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -(d*x^n)/c])/(2*c^3*(b*c - a*d)^3*e*(1 + m)*n^2)

Rule 371

Int[((c_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Simp[a^p*((c*x)^(m+1)/(c*(m+1)))*Hypergeometric2F1[-p, (m+1)/n, (m+1)/n+1, (-b)*(x^n/a)], x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILtQ[p, 0] || GtQ[a, 0])

Rule 609

Int[((g_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_)*((e_) + (f_)*(x_)^(n_)), x_Symbol] := Simp[(-b*e - a*f)*(g*x)^(m+1)*(a + b*x^n)^(p+1)*((c + d*x^n)^(q+1)/(a*g*n*(b*c - a*d)*(p+1)))/((c + d*x^n)^q*Simp[c*(b*e - a*f)*(m+1) + e*n*(b*c - a*d)*(p+1) + d*(b*e - a*f)*(m + n*(p+q+2) + 1)*x^n, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n, q}, x] && LtQ[p, -1]

Rule 611

Int[(((g_.)*(x_)^(m_))*((a_) + (b_.)*(x_)^(n_))^(p_)*((e_) + (f_.)*(x_)^(n_)))/((c_) + (d_.)*(x_)^(n_)), x_Symbol] :> Int[ExpandIntegrand[(g*x)^m*(a + b*x^n)^p*(e + f*x^n)/(c + d*x^n), x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n, p}, x]

Rubi steps

$$\begin{aligned}
\text{integral} &= \frac{(Bc - Ad)(ex)^{1+m}}{2c(bc - ad)en(c + dx^n)^2} \\
&+ \frac{\int \frac{(ex)^m(-aBc(1+m)+aAd(1+m-2n)+2Abcn-b(Bc-Ad)(1+m-2n)x^n)}{(a+bx^n)(c+dx^n)^2} dx}{2c(bc - ad)n} \\
&= \frac{(Bc - Ad)(ex)^{1+m}}{2c(bc - ad)en(c + dx^n)^2} \\
&+ \frac{(bc(Ad(1+m-4n) - Bc(1+m-2n)) + ad(Bc(1+m) - Ad(1+m-2n)))(ex)^{1+m}}{2c^2(bc - ad)^2en^2(c + dx^n)} \\
&+ \frac{\int \frac{(ex)^m(-a(1+m)(bc(Ad(1+m-4n) - Bc(1+m-2n)) + ad(Bc(1+m) - Ad(1+m-2n))) - (bc-ad)n(aBc(1+m) - aAd(1+m-2n))}{(a+bx^n)(c+dx^n)^2} dx}{2c^2(bc - ad)^2n^2} \\
&= \frac{(Bc - Ad)(ex)^{1+m}}{2c(bc - ad)en(c + dx^n)^2} \\
&+ \frac{(bc(Ad(1+m-4n) - Bc(1+m-2n)) + ad(Bc(1+m) - Ad(1+m-2n)))(ex)^{1+m}}{2c^2(bc - ad)^2en^2(c + dx^n)} \\
&+ \frac{\int \left(\frac{2b^2(Ab-aB)c^2n^2(ex)^m}{(bc-ad)(a+bx^n)} + \frac{(-b^2c^2(Ad(1+m-3n) - Bc(1+m-n))(1+m-2n) + a^2d^2(Bc(1+m) - Ad(1+m-2n))(1+m-n) - 2a^2d^2(Bc(1+m) - Ad(1+m-2n))n}{(bc-ad)(c+dx^n)^2} \right) dx}{2c^2(bc - ad)^2n^2} \\
&= \frac{(Bc - Ad)(ex)^{1+m}}{2c(bc - ad)en(c + dx^n)^2} \\
&+ \frac{(bc(Ad(1+m-4n) - Bc(1+m-2n)) + ad(Bc(1+m) - Ad(1+m-2n)))(ex)^{1+m}}{2c^2(bc - ad)^2en^2(c + dx^n)} \\
&+ \frac{(b^2(Ab - aB)) \int \frac{(ex)^m}{a+bx^n} dx}{(bc - ad)^3} \\
&- \frac{(b^2c^2(Ad(1+m-3n) - Bc(1+m-n))(1+m-2n) - a^2d^2(Bc(1+m) - Ad(1+m-2n))n}{2c^2(bc - ad)^2n^2}
\end{aligned}$$

$$\begin{aligned}
&= \frac{(Bc - Ad)(ex)^{1+m}}{2c(bc - ad)en(c + dx^n)^2} \\
&+ \frac{(bc(Ad(1 + m - 4n) - Bc(1 + m - 2n)) + ad(Bc(1 + m) - Ad(1 + m - 2n)))(ex)^{1+m}}{2c^2(bc - ad)^2en^2(c + dx^n)} \\
&+ \frac{b^2(Ab - aB)(ex)^{1+m} {}_2F_1\left(1, \frac{1+m}{n}; \frac{1+m+n}{n}; -\frac{bx^n}{a}\right)}{a(bc - ad)^3e(1 + m)} \\
&\frac{(b^2c^2(Ad(1 + m - 3n) - Bc(1 + m - n))(1 + m - 2n) - a^2d^2(Bc(1 + m) - Ad(1 + m - 2n)))(1 + m)}{a^2(bc - ad)^3e(1 + m)}
\end{aligned}$$

Mathematica [A] (verified)

Time = 0.50 (sec) , antiderivative size = 201, normalized size of antiderivative = 0.55

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)(c + dx^n)^3} dx$$

$$= \frac{x(ex)^m \left(\frac{b^2(Ab - aB) \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{bx^n}{a}\right)}{a} - \frac{b(Ab - aB)d \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{dx^n}{c}\right)}{c} - \frac{(Ab - aB)}{c} \right)}{(bc - ad)^3(1 + m)}$$

[In] Integrate[((e*x)^m*(A + B*x^n))/((a + b*x^n)*(c + d*x^n)^3), x]

[Out] (x*(e*x)^m*((b^2*(A*b - a*B)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -(b*x^n)/a])/a - (b*(A*b - a*B)*d*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -(d*x^n)/c])/c - ((A*b - a*B)*d*(b*c - a*d)*Hypergeometric2F1[2, (1 + m)/n, (1 + m + n)/n, -(d*x^n)/c])/c^2 + ((b*c - a*d)^2*(B*c - A*d)*Hypergeometric2F1[3, (1 + m)/n, (1 + m + n)/n, -(d*x^n)/c])/c^3)/((b*c - a*d)^3*(1 + m))

Maple [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)(c + dx^n)^3} dx$$

[In] int((e*x)^m*(A+B*x^n)/(a+b*x^n)/(c+d*x^n)^3,x)

[Out] int((e*x)^m*(A+B*x^n)/(a+b*x^n)/(c+d*x^n)^3,x)

Fricas [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)(c + dx^n)^3} dx = \int \frac{(Bx^n + A)(ex)^m}{(bx^n + a)(dx^n + c)^3} dx$$

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

[Out] integral((B*x^n + A)*(e*x)^m/(b*d^3*x^(4*n) + a*c^3 + (3*b*c*d^2 + a*d^3)*x^(3*n) + 3*(b*c^2*d + a*c*d^2)*x^(2*n) + (b*c^3 + 3*a*c^2*d)*x^n), x)

Sympy [F(-2)]

Exception generated.

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)(c + dx^n)^3} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((e*x)**m*(A+B*x**n)/(a+b*x**n)/(c+d*x**n)**3,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

Maxima [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)(c + dx^n)^3} dx = \int \frac{(Bx^n + A)(ex)^m}{(bx^n + a)(dx^n + c)^3} dx$$

[In] integrate((e*x)^m*(A+B*x^n)/(a+b*x^n)/(c+d*x^n)^3,x, algorithm="maxima")

[Out] ((m^2 - m*(5*n - 2) + 6*n^2 - 5*n + 1)*b^2*c^2*d*e^m - 2*(m^2 - 2*m*(2*n - 1) + 3*n^2 - 4*n + 1)*a*b*c*d^2*e^m + (m^2 - m*(3*n - 2) + 2*n^2 - 3*n + 1)*a^2*d^3*e^m)*A - ((m^2 - m*(3*n - 2) + 2*n^2 - 3*n + 1)*b^2*c^3*e^m - 2*(m^2 - 2*m*(n - 1) - 2*n + 1)*a*b*c^2*d*e^m + (m^2 - m*(n - 2) - n + 1)*a^2*c*d^2*e^m)*B)*integrate(-1/2*x^m/(b^3*c^6*n^2 - 3*a*b^2*c^5*d*n^2 + 3*a^2*b*c^4*d^2*n^2 - a^3*c^3*d^3*n^2 + (b^3*c^5*d*n^2 - 3*a*b^2*c^4*d^2*n^2 + 3*a^2*b*c^3*d^3*n^2 - a^3*c^2*d^4*n^2)*x^n), x) + (B*a*b^2*e^m - A*b^3*e^m)*integrate(-x^m/(a*b^3*c^3 - 3*a^2*b^2*c^2*d + 3*a^3*b*c*d^2 - a^4*d^3 + (b^4*c^3 - 3*a*b^3*c^2*d + 3*a^2*b^2*c*d^2 - a^3*b*d^3)*x^n), x) - 1/2*((a*c*d^2*e^m*(m - 3*n + 1) - b*c^2*d*e^m*(m - 5*n + 1))*A - (a*c^2*d*e^m*(m - n + 1) - b*c^3*e^m*(m - 3*n + 1))*B)*x*x^m + ((a*d^3*e^m*(m - 2*n + 1) - b*c*d^2*e^m*(m - 4*n + 1))*A + (b*c^2*d*e^m*(m - 2*n + 1) - a*c*d^2*e^m*(m + 1))*B)*x*e^(m*log(x) + n*log(x))/(b^2*c^6*n^2 - 2*a*b*c^5*d*n^2 + a^2*c^4*d^2*n^2 + (b^2*c^4*d^2*n^2 - 2*a*b*c^3*d^3*n^2 + a^2*c^2*d^4*n^2)*x^(2*n) + 2*(b^2*c^5*d*n^2 - 2*a*b*c^4*d^2*n^2 + a^2*c^3*d^3*n^2)*x^n)

Giac [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)(c + dx^n)^3} dx = \int \frac{(Bx^n + A)(ex)^m}{(bx^n + a)(dx^n + c)^3} dx$$

[In] integrate((e*x)^m*(A+B*x^n)/(a+b*x^n)/(c+d*x^n)^3,x, algorithm="giac")

[Out] integrate((B*x^n + A)*(e*x)^m/((b*x^n + a)*(d*x^n + c)^3), x)

Mupad [F(-1)]

Timed out.

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)(c + dx^n)^3} dx = \int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)(c + dx^n)^3} dx$$

[In] int(((e*x)^m*(A + B*x^n))/((a + b*x^n)*(c + d*x^n)^3),x)

[Out] int(((e*x)^m*(A + B*x^n))/((a + b*x^n)*(c + d*x^n)^3), x)

$$3.40 \quad \int \frac{(ex)^m (A+Bx^n)}{(a+bx^n)^2 (c+dx^n)^3} dx$$

Optimal result	1097
Rubi [A] (verified)	1098
Mathematica [A] (verified)	1100
Maple [F]	1101
Fricas [F]	1101
Sympy [F(-1)]	1101
Maxima [F]	1101
Giac [F]	1102
Mupad [F(-1)]	1102

Optimal result

Integrand size = 31, antiderivative size = 482

$$\int \frac{(ex)^m (A+Bx^n)}{(a+bx^n)^2 (c+dx^n)^3} dx$$

$$= \frac{d(2Abc - 3aBc + aAd)(ex)^{1+m}}{2ac(bc - ad)^2 en (c + dx^n)^2} + \frac{(Ab - aB)(ex)^{1+m}}{a(bc - ad)en (a + bx^n) (c + dx^n)^2}$$

$$- \frac{d(a^2d(Bc(1+m) - Ad(1+m-2n)) - abc(Bc - Ad)(1+m-6n) - 2Ab^2c^2n)(ex)^{1+m}}{2ac^2(bc - ad)^3 en^2 (c + dx^n)}$$

$$+ \frac{b^2(aB(bc(1+m) - ad(1+m-3n)) + Ab(ad(1+m-4n) - bc(1+m-n)))(ex)^{1+m} \text{Hypergeometric}}{a^2(bc - ad)^4 e(1+m)n}$$

$$+ \frac{d(b^2c^2(Ad(1+m-4n) - Bc(1+m-2n))(1+m-3n) - a^2d^2(Bc(1+m) - Ad(1+m-2n))(1+m-3n))}{a^2d^2(bc - ad)^4 en^2 (c + dx^n)}$$

```
[Out] 1/2*d*(A*a*d+2*A*b*c-3*B*a*c)*(e*x)^(1+m)/a/c/(-a*d+b*c)^2/e/n/(c+d*x^n)^2+
(A*b-B*a)*(e*x)^(1+m)/a/(-a*d+b*c)/e/n/(a+b*x^n)/(c+d*x^n)^2-1/2*d*(a^2*d*(
B*c*(1+m)-A*d*(1+m-2*n))-a*b*c*(-A*d+B*c)*(1+m-6*n)-2*A*b^2*c^2*n)*(e*x)^(1
+m)/a/c^2/(-a*d+b*c)^3/e/n^2/(c+d*x^n)+b^2*(a*B*(b*c*(1+m)-a*d*(1+m-3*n))+A
*b*(a*d*(1+m-4*n)-b*c*(1+m-n)))*(e*x)^(1+m)*hypergeom([1, (1+m)/n], [(1+m+n)
/n], -b*x^n/a)/a^2/(-a*d+b*c)^4/e/(1+m)/n+1/2*d*(b^2*c^2*(A*d*(1+m-4*n)-B*c*
(1+m-2*n))*(1+m-3*n)-a^2*d^2*(B*c*(1+m)-A*d*(1+m-2*n))*(1+m-n)+2*a*b*c*d*(B
*c*(1+m)*(1+m-3*n)-A*d*(1+m^2+m*(2-5*n)-5*n+4*n^2)))*(e*x)^(1+m)*hypergeom(
[1, (1+m)/n], [(1+m+n)/n], -d*x^n/c)/c^3/(-a*d+b*c)^4/e/(1+m)/n^2
```

Rubi [A] (verified)

Time = 1.28 (sec) , antiderivative size = 482, normalized size of antiderivative = 1.00, number of steps used = 7, number of rules used = 3, $\frac{\text{number of rules}}{\text{integrand size}} = 0.097$, Rules used = {609, 611, 371}

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^2 (c + dx^n)^3} dx =$$

$$\frac{d(ex)^{m+1} (a^2 d(Bc(m+1) - Ad(m-2n+1)) - abc(m-6n+1)(Bc - Ad) - 2Ab^2 c^2 n)}{2ac^2 en^2 (bc - ad)^3 (c + dx^n)}$$

$$+ \frac{d(ex)^{m+1} \text{Hypergeometric2F1}\left(1, \frac{m+1}{n}, \frac{m+n+1}{n}, -\frac{dx^n}{c}\right) (-a^2 d^2 (m-n+1)(Bc(m+1) - Ad(m-2n+1)))}{a^2 e(m+1)n(bc - ad)^4}$$

$$+ \frac{b^2 (ex)^{m+1} \text{Hypergeometric2F1}\left(1, \frac{m+1}{n}, \frac{m+n+1}{n}, -\frac{bx^n}{a}\right) (Ab(ad(m-4n+1) - bc(m-n+1)) + aB(bc(m-n+1) - ad(m-2n+1)))}{a^2 e(m+1)n(bc - ad)^4}$$

$$+ \frac{d(ex)^{m+1} (aAd - 3aBc + 2Abc)}{2acen(bc - ad)^2 (c + dx^n)^2} + \frac{(ex)^{m+1} (Ab - aB)}{aen(bc - ad) (a + bx^n) (c + dx^n)^2}$$

[In] Int[((e*x)^m*(A + B*x^n))/((a + b*x^n)^2*(c + d*x^n)^3), x]

[Out] (d*(2*A*b*c - 3*a*B*c + a*A*d)*(e*x)^(1 + m))/(2*a*c*(b*c - a*d)^2*e*n*(c + d*x^n)^2) + ((A*b - a*B)*(e*x)^(1 + m))/(a*(b*c - a*d)*e*n*(a + b*x^n)*(c + d*x^n)^2) - (d*(a^2*d*(B*c*(1 + m) - A*d*(1 + m - 2*n)) - a*b*c*(B*c - A*d)*(1 + m - 6*n) - 2*A*b^2*c^2*n)*(e*x)^(1 + m))/(2*a*c^2*(b*c - a*d)^3*e*n^2*(c + d*x^n)) + (b^2*(a*B*(b*c*(1 + m) - a*d*(1 + m - 3*n)) + A*b*(a*d*(1 + m - 4*n) - b*c*(1 + m - n)))*(e*x)^(1 + m)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -((b*x^n)/a)]/(a^2*(b*c - a*d)^4*e*(1 + m)*n) + (d*(b^2*c^2*(A*d*(1 + m - 4*n) - B*c*(1 + m - 2*n))*(1 + m - 3*n) - a^2*d^2*(B*c*(1 + m) - A*d*(1 + m - 2*n))*(1 + m - n) + 2*a*b*c*d*(B*c*(1 + m)*(1 + m - 3*n) - A*d*(1 + m^2 + m*(2 - 5*n) - 5*n + 4*n^2)))*(e*x)^(1 + m)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -((d*x^n)/c)]/(2*c^3*(b*c - a*d)^4*e*(1 + m)*n^2)

Rule 371

Int[((c_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Simp[a^p*((c*x)^(m+1)/(c*(m+1)))*Hypergeometric2F1[-p, (m+1)/n, (m+1)/n+1, (-b)*(x^n/a)], x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILtQ[p, 0] || GtQ[a, 0])

Rule 609

Int[((g_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_)*((e_) + (f_)*(x_)^(n_)), x_Symbol] := Simp[(-(b*e - a*f))*(g*x)^(m+1)*(a + b*x^n)^(p+1)*((c + d*x^n)^(q+1)/(a*g*n*(b*c - a*d)*(p+1))), x] + Dist[1/(a*n*(b*c - a*d)*(p+1)), Int[(g*x)^m*(a + b*x^n)^(p+1)*(c

+ d*x^n)^q*Simp[c*(b*e - a*f)*(m + 1) + e*n*(b*c - a*d)*(p + 1) + d*(b*e - a*f)*(m + n*(p + q + 2) + 1)*x^n, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n, q}, x] && LtQ[p, -1]

Rule 611

Int[(((g_)*(x_)^(m_))*((a_) + (b_)*(x_)^(n_))^(p_))*((e_) + (f_)*(x_)^(n_)))/((c_) + (d_)*(x_)^(n_)), x_Symbol] :> Int[ExpandIntegrand[(g*x)^m*(a + b*x^n)^p*((e + f*x^n)/(c + d*x^n)), x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n, p}, x]

Rubi steps

$$\begin{aligned}
 \text{integral} &= \frac{(Ab - aB)(ex)^{1+m}}{a(bc - ad)en(a + bx^n)(c + dx^n)^2} \\
 &\quad - \frac{\int \frac{(ex)^m(-aBc(1+m) + Abc(1+m-n) + aAdn + (Ab - aB)d(1+m-3n)x^n)}{(a+bx^n)(c+dx^n)^3} dx}{a(bc - ad)n} \\
 &= \frac{d(2Abc - 3aBc + aAd)(ex)^{1+m}}{2ac(bc - ad)^2en(c + dx^n)^2} + \frac{(Ab - aB)(ex)^{1+m}}{a(bc - ad)en(a + bx^n)(c + dx^n)^2} \\
 &\quad - \frac{\int \frac{(ex)^m(-n(aBc(2bc+ad)(1+m) - A(a^2d^2(1+m-2n) + 2b^2c^2(1+m-n) + 4abcdn)) + bd(2Abc - 3aBc + aAd)(1+m-2n)nx^n)}{(a+bx^n)(c+dx^n)^2} dx}{2ac(bc - ad)^2n^2} \\
 &= \frac{d(2Abc - 3aBc + aAd)(ex)^{1+m}}{2ac(bc - ad)^2en(c + dx^n)^2} + \frac{(Ab - aB)(ex)^{1+m}}{a(bc - ad)en(a + bx^n)(c + dx^n)^2} \\
 &\quad - \frac{d(a^2d(Bc(1+m) - Ad(1+m-2n)) - abc(Bc - Ad)(1+m-6n) - 2Ab^2c^2n)(ex)^{1+m}}{2ac^2(bc - ad)^3en^2(c + dx^n)} \\
 &\quad - \frac{\int \frac{(ex)^m(-n(ad(1+m)(a^2d(Bc(1+m) - Ad(1+m-2n)) - abc(Bc - Ad)(1+m-6n) - 2Ab^2c^2n) + (bc - ad)n(aBc(2bc+ad)(1+m) - A(a^2d^2(1+m-2n) + 2b^2c^2(1+m-n) + 4abcdn)) + bd(2Abc - 3aBc + aAd)(1+m-2n)nx^n)}{(a+bx^n)(c+dx^n)^2} dx}{2ac^2(bc - ad)^2n^2} \\
 &= \frac{d(2Abc - 3aBc + aAd)(ex)^{1+m}}{2ac(bc - ad)^2en(c + dx^n)^2} + \frac{(Ab - aB)(ex)^{1+m}}{a(bc - ad)en(a + bx^n)(c + dx^n)^2} \\
 &\quad - \frac{d(a^2d(Bc(1+m) - Ad(1+m-2n)) - abc(Bc - Ad)(1+m-6n) - 2Ab^2c^2n)(ex)^{1+m}}{2ac^2(bc - ad)^3en^2(c + dx^n)} \\
 &\quad - \frac{\int \left(\frac{2b^2c^2(-aB(bc(1+m) - ad(1+m-3n)) - Ab(ad(1+m-4n) - bc(1+m-n))n^2(ex)^m}{(bc - ad)(a + bx^n)} + \frac{adn(-b^2c^2(Ad(1+m-4n) - Bc(1+m-n))n^2(ex)^m}{(bc - ad)(a + bx^n)} \right) dx}{2ac^2(bc - ad)^2n^2}
 \end{aligned}$$

$$\begin{aligned}
&= \frac{d(2Abc - 3aBc + aAd)(ex)^{1+m}}{2ac(bc - ad)^2en(c + dx^n)^2} + \frac{(Ab - aB)(ex)^{1+m}}{a(bc - ad)en(a + bx^n)(c + dx^n)^2} \\
&\quad - \frac{d(a^2d(Bc(1+m) - Ad(1+m - 2n)) - abc(Bc - Ad)(1+m - 6n) - 2Ab^2c^2n)(ex)^{1+m}}{2ac^2(bc - ad)^3en^2(c + dx^n)} \\
&\quad + \frac{(b^2(aB(bc(1+m) - ad(1+m - 3n)) + Ab(ad(1+m - 4n) - bc(1+m - n)))) \int \frac{(ex)^m}{a+bx^n} dx}{a(bc - ad)^4n} \\
&\quad + \frac{(d(b^2c^2(Ad(1+m - 4n) - Bc(1+m - 2n))(1+m - 3n) - a^2d^2(Bc(1+m) - Ad(1+m - 2n)))}{2c^2(b} \\
&= \frac{d(2Abc - 3aBc + aAd)(ex)^{1+m}}{2ac(bc - ad)^2en(c + dx^n)^2} + \frac{(Ab - aB)(ex)^{1+m}}{a(bc - ad)en(a + bx^n)(c + dx^n)^2} \\
&\quad - \frac{d(a^2d(Bc(1+m) - Ad(1+m - 2n)) - abc(Bc - Ad)(1+m - 6n) - 2Ab^2c^2n)(ex)^{1+m}}{2ac^2(bc - ad)^3en^2(c + dx^n)} \\
&\quad + \frac{b^2(aB(bc(1+m) - ad(1+m - 3n)) + Ab(ad(1+m - 4n) - bc(1+m - n)))(ex)^{1+m} {}_2F_1\left(1, \frac{1+m}{n}\right)}{a^2(bc - ad)^4e(1+m)n} \\
&\quad + \frac{d(b^2c^2(Ad(1+m - 4n) - Bc(1+m - 2n))(1+m - 3n) - a^2d^2(Bc(1+m) - Ad(1+m - 2n)))}{2c^2(b}
\end{aligned}$$

Mathematica [A] (verified)

Time = 0.97 (sec) , antiderivative size = 271, normalized size of antiderivative = 0.56

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^2 (c + dx^n)^3} dx$$

$$= \frac{x(ex)^m \left(\frac{b^2(bBc - 3Abd + 2aBd) \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{bx^n}{a}\right)}{a} - \frac{bd(bBc - 3Abd + 2aBd) \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{n}, \frac{1+m+n}{n}, -\frac{bx^n}{c}\right)}{c} \right)}{1}$$

[In] Integrate[((e*x)^m*(A + B*x^n))/((a + b*x^n)^2*(c + d*x^n)^3),x]

[Out] (x*(e*x)^m*((b^2*(b*B*c - 3*A*b*d + 2*a*B*d)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -((b*x^n)/a)])/a - (b*d*(b*B*c - 3*A*b*d + 2*a*B*d)*Hypergeometric2F1[1, (1 + m)/n, (1 + m + n)/n, -((d*x^n)/c)])/c + (b^2*(-(A*b) + a*B)*(-(b*c) + a*d)*Hypergeometric2F1[2, (1 + m)/n, (1 + m + n)/n, -((b*x^n)/a)])/a^2 - (d*(b*c - a*d)*(b*B*c - 2*A*b*d + a*B*d)*Hypergeometric2F1[2, (1 + m)/n, (1 + m + n)/n, -((d*x^n)/c)])/c^2 + (d*(b*c - a*d)^2*(-(B*c) + A*d)*Hypergeometric2F1[3, (1 + m)/n, (1 + m + n)/n, -((d*x^n)/c)]/c^3)/((b*c - a*d)^4*(1 + m))

Maple [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^2 (c + dx^n)^3} dx$$

[In] int((e*x)^m*(A+B*x^n)/(a+b*x^n)^2/(c+d*x^n)^3,x)

[Out] int((e*x)^m*(A+B*x^n)/(a+b*x^n)^2/(c+d*x^n)^3,x)

Fricas [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^2 (c + dx^n)^3} dx = \int \frac{(Bx^n + A)(ex)^m}{(bx^n + a)^2 (dx^n + c)^3} dx$$

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

[Out] integral((B*x^n + A)*(e*x)^m/(b^2*d^3*x^(5*n) + a^2*c^3 + (3*b^2*c*d^2 + 2*a*b*d^3)*x^(4*n) + (3*b^2*c^2*d + 6*a*b*c*d^2 + a^2*d^3)*x^(3*n) + (b^2*c^3 + 6*a*b*c^2*d + 3*a^2*c*d^2)*x^(2*n) + (2*a*b*c^3 + 3*a^2*c^2*d)*x^n), x)

Sympy [F(-1)]

Timed out.

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^2 (c + dx^n)^3} dx = \text{Timed out}$$

[In] integrate((e*x)**m*(A+B*x**n)/(a+b*x**n)**2/(c+d*x**n)**3,x)

[Out] Timed out

Maxima [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^2 (c + dx^n)^3} dx = \int \frac{(Bx^n + A)(ex)^m}{(bx^n + a)^2 (dx^n + c)^3} dx$$

[In] integrate((e*x)^m*(A+B*x^n)/(a+b*x^n)^2/(c+d*x^n)^3,x, algorithm="maxima")

[Out] (((m^2 - m*(7*n - 2) + 12*n^2 - 7*n + 1)*b^2*c^2*d^2*e^m - 2*(m^2 - m*(5*n - 2) + 4*n^2 - 5*n + 1)*a*b*c*d^3*e^m + (m^2 - m*(3*n - 2) + 2*n^2 - 3*n + 1)*a^2*d^4*e^m)*A - ((m^2 - m*(5*n - 2) + 6*n^2 - 5*n + 1)*b^2*c^3*d*e^m - 2*(m^2 - m*(3*n - 2) - 3*n + 1)*a*b*c^2*d^2*e^m + (m^2 - m*(n - 2) - n + 1)*a^2*c*d^3*e^m)*B)*integrate(1/2*x^m/(b^4*c^7*n^2 - 4*a*b^3*c^6*d*n^2 + 6*a^2*b^2*c^5*d^2*n^2 - 4*a^3*b*c^4*d^3*n^2 + a^4*c^3*d^4*n^2 + (b^4*c^6*d*n^2

$$\begin{aligned}
& - 4*a*b^3*c^5*d^2*n^2 + 6*a^2*b^2*c^4*d^3*n^2 - 4*a^3*b*c^3*d^4*n^2 + a^4*c^2*d^5*n^2)*x^n), x) - ((b^4*c*e^m*(m - n + 1) - a*b^3*d*e^m*(m - 4*n + 1)) * A + (a^2*b^2*d*e^m*(m - 3*n + 1) - a*b^3*c*e^m*(m + 1)) * B) * integrate(x^m / (a^2*b^4*c^4*n - 4*a^3*b^3*c^3*d*n + 6*a^4*b^2*c^2*d^2*n - 4*a^5*b*c*d^3*n + a^6*d^4*n + (a*b^5*c^4*n - 4*a^2*b^4*c^3*d*n + 6*a^3*b^3*c^2*d^2*n - 4*a^4*b^2*c*d^3*n + a^5*b*d^4*n) * x^n), x) + 1/2*((a^3*c*d^3*e^m*(m - 3*n + 1) - a^2*b*c^2*d^2*e^m*(m - 7*n + 1) + 2*b^3*c^4*e^m*n) * A - (a^3*c^2*d^2*e^m*(m - n + 1) - a^2*b*c^3*d*e^m*(m - 5*n + 1) + 2*a*b^2*c^4*e^m*n) * B) * x * x^m + ((a^2*b*d^4*e^m*(m - 2*n + 1) - a*b^2*c*d^3*e^m*(m - 6*n + 1) + 2*b^3*c^2*d^2*e^m*n) * A + (a*b^2*c^2*d^2*e^m*(m - 6*n + 1) - a^2*b*c*d^3*e^m*(m + 1)) * B) * x * e^(m*log(x) + 2*n*log(x)) + ((a^3*d^4*e^m*(m - 2*n + 1) - a*b^2*c^2*d^2*e^m*(m - 7*n + 1) + 4*b^3*c^3*d*e^m*n + 3*a^2*b*c*d^3*e^m*n) * A + (a*b^2*c^3*d*e^m*(m - 9*n + 1) - a^3*c*d^3*e^m*(m + 1) - 3*a^2*b*c^2*d^2*e^m*n) * B) * x * e^(m*log(x) + n*log(x))) / (a^2*b^3*c^7*n^2 - 3*a^3*b^2*c^6*d*n^2 + 3*a^4*b*c^5*d^2*n^2 - a^5*c^4*d^3*n^2 + (a*b^4*c^5*d^2*n^2 - 3*a^2*b^3*c^4*d^3*n^2 + 3*a^3*b^2*c^3*d^4*n^2 - a^4*b*c^2*d^5*n^2) * x^(3*n) + (2*a*b^4*c^6*d*n^2 - 5*a^2*b^3*c^5*d^2*n^2 + 3*a^3*b^2*c^4*d^3*n^2 + a^4*b*c^3*d^4*n^2 - a^5*c^2*d^5*n^2) * x^(2*n) + (a*b^4*c^7*n^2 - a^2*b^3*c^6*d*n^2 - 3*a^3*b^2*c^5*d^2*n^2 + 5*a^4*b*c^4*d^3*n^2 - 2*a^5*c^3*d^4*n^2) * x^n)
\end{aligned}$$

Giac [F]

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^2 (c + dx^n)^3} dx = \int \frac{(Bx^n + A)(ex)^m}{(bx^n + a)^2 (dx^n + c)^3} dx$$

[In] integrate((e*x)^m*(A+B*x^n)/(a+b*x^n)^2/(c+d*x^n)^3,x, algorithm="giac")

[Out] integrate((B*x^n + A)*(e*x)^m/((b*x^n + a)^2*(d*x^n + c)^3), x)

Mupad [F(-1)]

Timed out.

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^2 (c + dx^n)^3} dx = \int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^2 (c + dx^n)^3} dx$$

[In] int(((e*x)^m*(A + B*x^n))/((a + b*x^n)^2*(c + d*x^n)^3),x)

[Out] int(((e*x)^m*(A + B*x^n))/((a + b*x^n)^2*(c + d*x^n)^3), x)

3.41 $\int (ex)^m (a + bx^n)^p (A + Bx^n) (c + dx^n)^q dx$

Optimal result	1103
Rubi [A] (verified)	1103
Mathematica [A] (verified)	1105
Maple [F]	1105
Fricas [F]	1106
Sympy [F(-2)]	1106
Maxima [F]	1106
Giac [F]	1106
Mupad [F(-1)]	1107

Optimal result

Integrand size = 31, antiderivative size = 211

$$\int (ex)^m (a + bx^n)^p (A + Bx^n) (c + dx^n)^q dx$$

$$= \frac{A(ex)^{1+m} (a + bx^n)^p \left(1 + \frac{bx^n}{a}\right)^{-p} (c + dx^n)^q \left(1 + \frac{dx^n}{c}\right)^{-q} \text{AppellF1}\left(\frac{1+m}{n}, -p, -q, \frac{1+m+n}{n}, -\frac{bx^n}{a}, -\frac{dx^n}{c}\right)}{e(1+m)}$$

$$+ \frac{Bx^{1+n}(ex)^m (a + bx^n)^p \left(1 + \frac{bx^n}{a}\right)^{-p} (c + dx^n)^q \left(1 + \frac{dx^n}{c}\right)^{-q} \text{AppellF1}\left(\frac{1+m+n}{n}, -p, -q, \frac{1+m+2n}{n}, -\frac{bx^n}{a}, -\frac{dx^n}{c}\right)}{1+m+n}$$

[Out] $A*(e*x)^{(1+m)}*(a+b*x^n)^p*(c+d*x^n)^q*\text{AppellF1}\left(\frac{(1+m)}{n}, -p, -q, \frac{(1+m+n)}{n}, -\frac{b*x^n}{a}, -\frac{d*x^n}{c}\right)/e/(1+m)/\left(\left(1+b*x^n/a\right)^p/\left(\left(1+d*x^n/c\right)^q\right)+B*x^{(1+n)}*(e*x)^m*(a+b*x^n)^p*(c+d*x^n)^q*\text{AppellF1}\left(\frac{(1+m+n)}{n}, -p, -q, \frac{(1+m+2*n)}{n}, -\frac{b*x^n}{a}, -\frac{d*x^n}{c}\right)/(1+m+n)/\left(\left(1+b*x^n/a\right)^p/\left(\left(1+d*x^n/c\right)^q\right)\right)$

Rubi [A] (verified)

Time = 0.16 (sec) , antiderivative size = 211, normalized size of antiderivative = 1.00, number of steps used = 7, number of rules used = 3, $\frac{\text{number of rules}}{\text{integrand size}} = 0.097$, Rules used = {612, 525, 524}

$$\int (ex)^m (a + bx^n)^p (A + Bx^n) (c + dx^n)^q dx$$

$$= \frac{A(ex)^{m+1} (a + bx^n)^p \left(\frac{bx^n}{a} + 1\right)^{-p} (c + dx^n)^q \left(\frac{dx^n}{c} + 1\right)^{-q} \text{AppellF1}\left(\frac{m+1}{n}, -p, -q, \frac{m+n+1}{n}, -\frac{bx^n}{a}, -\frac{dx^n}{c}\right)}{e(m+1)}$$

$$+ \frac{Bx^{n+1}(ex)^m (a + bx^n)^p \left(\frac{bx^n}{a} + 1\right)^{-p} (c + dx^n)^q \left(\frac{dx^n}{c} + 1\right)^{-q} \text{AppellF1}\left(\frac{m+n+1}{n}, -p, -q, \frac{m+2n+1}{n}, -\frac{bx^n}{a}, -\frac{dx^n}{c}\right)}{m+n+1}$$

[In] $\text{Int}[(e*x)^m*(a + b*x^n)^p*(A + B*x^n)*(c + d*x^n)^q,x]$

[Out] $(A*(e*x)^{(1+m)}*(a+b*x^n)^p*(c+d*x^n)^q*AppellF1[(1+m)/n, -p, -q, (1+m+n)/n, -((b*x^n)/a), -((d*x^n)/c)]/(e*(1+m)*(1+(b*x^n)/a)^p*(1+(d*x^n)/c)^q + (B*x^{(1+n)}*(e*x)^m*(a+b*x^n)^p*(c+d*x^n)^q*AppellF1[(1+m+n)/n, -p, -q, (1+m+2*n)/n, -((b*x^n)/a), -((d*x^n)/c)]/((1+m+n)*(1+(b*x^n)/a)^p*(1+(d*x^n)/c)^q)$

Rule 524

Int[((e_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_), x_Symbol] :> Simp[a^p*c^q*(e*x)^(m+1)/(e*(m+1))*AppellF1[(m+1)/n, -p, -q, 1+(m+1)/n, (-b)*(x^n/a), (-d)*(x^n/c)], x] /; FreeQ[{a, b, c, d, e, m, n, p, q}, x] && NeQ[b*c - a*d, 0] && NeQ[m, -1] && NeQ[m, n - 1] && (IntegerQ[p] || GtQ[a, 0]) && (IntegerQ[q] || GtQ[c, 0])

Rule 525

Int[((e_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_), x_Symbol] :> Dist[a^IntPart[p]*((a + b*x^n)^FracPart[p]/(1 + b*(x^n/a)^FracPart[p])), Int[(e*x)^m*(1 + b*(x^n/a))^p*(c + d*x^n)^q, x], x] /; FreeQ[{a, b, c, d, e, m, n, p, q}, x] && NeQ[b*c - a*d, 0] && NeQ[m, -1] && NeQ[m, n - 1] && !(IntegerQ[p] || GtQ[a, 0])

Rule 612

Int[((g_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_)*((e_) + (f_)*(x_)^(n_)), x_Symbol] :> Dist[e, Int[(g*x)^m*(a + b*x^n)^p*(c + d*x^n)^q, x], x] + Dist[f*((g*x)^m/x^m), Int[x^(m+n)*(a + b*x^n)^p*(c + d*x^n)^q, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n, p, q}, x]

Rubi steps

$$\begin{aligned} \text{integral} &= A \int (ex)^m (a+bx^n)^p (c+dx^n)^q dx + (Bx^{-m}(ex)^m) \int x^{m+n} (a+bx^n)^p (c+dx^n)^q dx \\ &= \left(A(a+bx^n)^p \left(1 + \frac{bx^n}{a} \right)^{-p} \right) \int (ex)^m \left(1 + \frac{bx^n}{a} \right)^p (c+dx^n)^q dx \\ &\quad + \left(Bx^{-m}(ex)^m (a+bx^n)^p \left(1 + \frac{bx^n}{a} \right)^{-p} \right) \int x^{m+n} \left(1 + \frac{bx^n}{a} \right)^p (c+dx^n)^q dx \end{aligned}$$

$$\begin{aligned}
&= \left(A(a + bx^n)^p \left(1 + \frac{bx^n}{a}\right)^{-p} (c + dx^n)^q \left(1 + \frac{dx^n}{c}\right)^{-q} \right) \int (ex)^m \left(1 + \frac{bx^n}{a}\right)^p \left(1 + \frac{dx^n}{c}\right)^q dx \\
&\quad + \left(Bx^{-m}(ex)^m (a + bx^n)^p \left(1 + \frac{bx^n}{a}\right)^{-p} (c + dx^n)^q \left(1 + \frac{dx^n}{c}\right)^{-q} \right) \int x^{m+n} \left(1 + \frac{bx^n}{a}\right)^p \left(1 + \frac{dx^n}{c}\right)^q dx \\
&= \frac{A(ex)^{1+m} (a + bx^n)^p \left(1 + \frac{bx^n}{a}\right)^{-p} (c + dx^n)^q \left(1 + \frac{dx^n}{c}\right)^{-q} F_1\left(\frac{1+m}{n}; -p, -q; \frac{1+m+n}{n}; -\frac{bx^n}{a}, -\frac{dx^n}{c}\right)}{e(1+m)} \\
&\quad + \frac{Bx^{1+n}(ex)^m (a + bx^n)^p \left(1 + \frac{bx^n}{a}\right)^{-p} (c + dx^n)^q \left(1 + \frac{dx^n}{c}\right)^{-q} F_1\left(\frac{1+m+n}{n}; -p, -q; \frac{1+m+2n}{n}; -\frac{bx^n}{a}, -\frac{dx^n}{c}\right)}{1+m+n}
\end{aligned}$$

Mathematica [A] (verified)

Time = 0.82 (sec) , antiderivative size = 162, normalized size of antiderivative = 0.77

$$\begin{aligned}
&\int (ex)^m (a + bx^n)^p (A + Bx^n) (c + dx^n)^q dx \\
&= \frac{x(ex)^m (a + bx^n)^p \left(1 + \frac{bx^n}{a}\right)^{-p} (c + dx^n)^q \left(1 + \frac{dx^n}{c}\right)^{-q} (A(1+m+n) \operatorname{AppellF1}\left(\frac{1+m}{n}, -p, -q, \frac{1+m+n}{n}, -\frac{bx^n}{a}, -\frac{dx^n}{c}\right) + B(1+m)x^n \operatorname{AppellF1}\left(\frac{1+m+n}{n}, -p, -q, \frac{1+m+2n}{n}, -\frac{bx^n}{a}, -\frac{dx^n}{c}\right))}{(1+m)(1+m+n)}
\end{aligned}$$

[In] Integrate[(e*x)^m*(a + b*x^n)^p*(A + B*x^n)*(c + d*x^n)^q,x]

[Out] (x*(e*x)^m*(a + b*x^n)^p*(c + d*x^n)^q*(A*(1 + m + n)*AppellF1[(1 + m)/n, -p, -q, (1 + m + n)/n, -(b*x^n)/a, -(d*x^n)/c]) + B*(1 + m)*x^n*AppellF1[(1 + m + n)/n, -p, -q, (1 + m + 2*n)/n, -(b*x^n)/a, -(d*x^n)/c])/((1 + m)*(1 + m + n)*(1 + (b*x^n)/a)^p*(1 + (d*x^n)/c)^q)

Maple [F]

$$\int (ex)^m (a + bx^n)^p (A + Bx^n) (c + dx^n)^q dx$$

[In] int((e*x)^m*(a+b*x^n)^p*(A+B*x^n)*(c+d*x^n)^q,x)

[Out] int((e*x)^m*(a+b*x^n)^p*(A+B*x^n)*(c+d*x^n)^q,x)

Fricas [F]

$$\int (ex)^m (a + bx^n)^p (A + Bx^n) (c + dx^n)^q dx = \int (Bx^n + A)(bx^n + a)^p (dx^n + c)^q (ex)^m dx$$

[In] integrate((e*x)^m*(a+b*x^n)^p*(A+B*x^n)*(c+d*x^n)^q,x, algorithm="fricas")

[Out] integral((B*x^n + A)*(b*x^n + a)^p*(d*x^n + c)^q*(e*x)^m, x)

Sympy [F(-2)]

Exception generated.

$$\int (ex)^m (a + bx^n)^p (A + Bx^n) (c + dx^n)^q dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((e*x)**m*(a+b*x**n)**p*(A+B*x**n)*(c+d*x**n)**q,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

Maxima [F]

$$\int (ex)^m (a + bx^n)^p (A + Bx^n) (c + dx^n)^q dx = \int (Bx^n + A)(bx^n + a)^p (dx^n + c)^q (ex)^m dx$$

[In] integrate((e*x)^m*(a+b*x^n)^p*(A+B*x^n)*(c+d*x^n)^q,x, algorithm="maxima")

[Out] integrate((B*x^n + A)*(b*x^n + a)^p*(d*x^n + c)^q*(e*x)^m, x)

Giac [F]

$$\int (ex)^m (a + bx^n)^p (A + Bx^n) (c + dx^n)^q dx = \int (Bx^n + A)(bx^n + a)^p (dx^n + c)^q (ex)^m dx$$

[In] integrate((e*x)^m*(a+b*x^n)^p*(A+B*x^n)*(c+d*x^n)^q,x, algorithm="giac")

[Out] integrate((B*x^n + A)*(b*x^n + a)^p*(d*x^n + c)^q*(e*x)^m, x)

Mupad [F(-1)]

Timed out.

$$\int (ex)^m (a + bx^n)^p (A + Bx^n) (c + dx^n)^q dx = \int (ex)^m (A + Bx^n) (a + bx^n)^p (c + dx^n)^q dx$$

```
[In] int((e*x)^m*(A + B*x^n)*(a + b*x^n)^p*(c + d*x^n)^q,x)
```

```
[Out] int((e*x)^m*(A + B*x^n)*(a + b*x^n)^p*(c + d*x^n)^q, x)
```

3.42 $\int (ex)^m (a + bx^n)^p (A + Bx^n) (c + dx^n) dx$

Optimal result	1108
Rubi [A] (verified)	1108
Mathematica [A] (verified)	.1111
Maple [F]	.1111
Fricas [F]	.1111
Sympy [F(-1)]	1112
Maxima [F]	1112
Giac [F(-2)]	1112
Mupad [F(-1)]	1112

Optimal result

Integrand size = 29, antiderivative size = 271

$$\int (ex)^m (a + bx^n)^p (A + Bx^n) (c + dx^n) dx$$

$$= -\frac{(aBd(1+m+n) - b(Adn + Bc(1+m+n(2+p))))(ex)^{1+m} (a + bx^n)^{1+p}}{b^2e(1+m+n+np)(1+m+n(2+p))}$$

$$+ \frac{d(ex)^{1+m} (a + bx^n)^{1+p} (A + Bx^n)}{be(1+m+n(2+p))}$$

$$- \frac{(Ab(1+m+n+np)(ad(1+m) - bc(1+m+n(2+p))) - a(1+m)(aBd(1+m+n) - b(Adn + Bc(1+m+n(2+p))))(ex)^{1+m} (a + bx^n)^{1+p}}{b^2e(1+m)(1+m+n+np)}$$

[Out] $-(a*B*d*(1+m+n)-b*(A*d*n+B*c*(1+m+n*(2+p))))*(e*x)^{(1+m)}*(a+b*x^n)^{(p+1)}/b^2/e/(n*p+m+n+1)/(1+m+n*(2+p))+d*(e*x)^{(1+m)}*(a+b*x^n)^{(p+1)}*(A+B*x^n)/b/e/(1+m+n*(2+p))-(A*b*(n*p+m+n+1)*(a*d*(1+m)-b*c*(1+m+n*(2+p)))-a*(1+m)*(a*B*d*(1+m+n)-b*(A*d*n+B*c*(1+m+n*(2+p))))*(e*x)^{(1+m)}*(a+b*x^n)^p*\text{hypergeom}([-p, (1+m)/n], [(1+m+n)/n], -b*x^n/a)/b^2/e/(1+m)/(n*p+m+n+1)/(1+m+n*(2+p))/((1+b*x^n/a)^p)$

Rubi [A] (verified)

Time = 0.21 (sec) , antiderivative size = 255, normalized size of antiderivative = 0.94, number of steps used = 4, number of rules used = 4, $\frac{\text{number of rules}}{\text{integrand size}} = 0.138$, Rules used

= {610, 470, 372, 371}

$$\int (ex)^m (a + bx^n)^p (A + Bx^n) (c + dx^n) dx$$

$$= \frac{(ex)^{m+1} (a + bx^n)^{p+1} (-aBd(m+n+1) + Abdn + bBc(m+n(p+2)+1))}{b^2 e(m+np+n+1)(m+n(p+2)+1)}$$

$$= \frac{(ex)^{m+1} (a + bx^n)^p \left(\frac{bx^n}{a} + 1\right)^{-p} \text{Hypergeometric2F1}\left(\frac{m+1}{n}, -p, \frac{m+n+1}{n}, -\frac{bx^n}{a}\right) \left(\frac{a(-aBd(m+n+1)+Abdn+bBc(m+n(p+2)+1))}{b(m+np+n+1)}\right)}{be(m+n(p+2)+1)}$$

$$+ \frac{d(ex)^{m+1} (A + Bx^n) (a + bx^n)^{p+1}}{be(m+n(p+2)+1)}$$

[In] Int[(e*x)^m*(a + b*x^n)^p*(A + B*x^n)*(c + d*x^n), x]

[Out] ((A*b*d*n - a*B*d*(1 + m + n) + b*B*c*(1 + m + n*(2 + p)))*(e*x)^(1 + m)*(a + b*x^n)^(1 + p))/(b^2*e*(1 + m + n + n*p)*(1 + m + n*(2 + p))) + (d*(e*x)^(1 + m)*(a + b*x^n)^(1 + p)*(A + B*x^n))/(b*e*(1 + m + n*(2 + p))) - ((a*A*d - (A*b*c*(1 + m + n*(2 + p)))/(1 + m) + (a*(A*b*d*n - a*B*d*(1 + m + n) + b*B*c*(1 + m + n*(2 + p))))/(b*(1 + m + n + n*p)))*(e*x)^(1 + m)*(a + b*x^n)^p*Hypergeometric2F1[(1 + m)/n, -p, (1 + m + n)/n, -((b*x^n)/a)]/(b*e*(1 + m + n*(2 + p))*(1 + (b*x^n)/a)^p)

Rule 371

Int[((c_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Simp[a^p*((c*x)^(m+1)/(c*(m+1)))*Hypergeometric2F1[-p, (m+1)/n, (m+1)/n+1, (-b)*(x^n/a)], x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILtQ[p, 0] || GtQ[a, 0])

Rule 372

Int[((c_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Dist[a^I ntPart[p]*((a + b*x^n)^FracPart[p]/(1 + b*(x^n/a))^FracPart[p]), Int[(c*x)^m*(1 + b*(x^n/a))^p, x], x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && !(ILtQ[p, 0] || GtQ[a, 0])

Rule 470

Int[((e_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_)), x_Symbol] := Simp[d*(e*x)^(m+1)*((a + b*x^n)^(p+1)/(b*e*(m+n*(p+1)+1))), x] - Dist[(a*d*(m+1) - b*c*(m+n*(p+1)+1))/(b*(m+n*(p+1)+1)), Int[(e*x)^m*(a + b*x^n)^p, x], x] /; FreeQ[{a, b, c, d, e, m, n, p}, x] && NeQ[b*c - a*d, 0] && NeQ[m + n*(p+1) + 1, 0]

Rule 610

Int[((g_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_)*((e_) + (f_)*(x_)^(n_)), x_Symbol] := Simp[f*(g*x)^(m+1)*(a +

$b*x^n)^{(p+1)}*((c+d*x^n)^q/(b*g*(m+n*(p+q+1)+1)), x] + \text{Dist}[1/(b*(m+n*(p+q+1)+1)), \text{Int}[(g*x)^m*(a+b*x^n)^p*(c+d*x^n)^{(q-1)}*\text{Simp}[c*((b*e-a*f)*(m+1)+b*e*n*(p+q+1))+(d*(b*e-a*f)*(m+1)+f*n*q*(b*c-a*d)+b*e*d*n*(p+q+1))*x^n, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, n, p\}, x] \&\& \text{GtQ}[q, 0] \&\& !(\text{EqQ}[q, 1] \&\& \text{SimplerQ}[e+f*x^n, c+d*x^n])$

Rubi steps

$$\begin{aligned}
\text{integral} &= \frac{d(ex)^{1+m} (a+bx^n)^{1+p} (A+Bx^n)}{be(1+m+n(2+p))} \\
&+ \frac{\int (ex)^m (a+bx^n)^p (-A(ad(1+m)-bc(1+m+n(2+p))) + (Abdn - aBd(1+m+n) + bBc(1+m+n(2+p))))}{b(1+m+n(2+p))} \\
&= \frac{(Abdn - aBd(1+m+n) + bBc(1+m+n(2+p)))(ex)^{1+m} (a+bx^n)^{1+p}}{b^2e(1+m+n+np)(1+m+n(2+p))} \\
&+ \frac{d(ex)^{1+m} (a+bx^n)^{1+p} (A+Bx^n)}{be(1+m+n(2+p))} \\
&- \frac{\left(A(ad(1+m) - bc(1+m+n(2+p))) + \frac{a(1+m)(Abdn - aBd(1+m+n) + bBc(1+m+n(2+p)))}{b(1+m+n+np)} \right) \int (ex)^m (a+bx^n)^p}{b(1+m+n(2+p))} \\
&= \frac{(Abdn - aBd(1+m+n) + bBc(1+m+n(2+p)))(ex)^{1+m} (a+bx^n)^{1+p}}{b^2e(1+m+n+np)(1+m+n(2+p))} \\
&+ \frac{d(ex)^{1+m} (a+bx^n)^{1+p} (A+Bx^n)}{be(1+m+n(2+p))} \\
&- \frac{\left(\left(A(ad(1+m) - bc(1+m+n(2+p))) + \frac{a(1+m)(Abdn - aBd(1+m+n) + bBc(1+m+n(2+p)))}{b(1+m+n+np)} \right) (a+bx^n)^p \right)}{b(1+m+n(2+p))} \\
&= \frac{(Abdn - aBd(1+m+n) + bBc(1+m+n(2+p)))(ex)^{1+m} (a+bx^n)^{1+p}}{b^2e(1+m+n+np)(1+m+n(2+p))} \\
&+ \frac{d(ex)^{1+m} (a+bx^n)^{1+p} (A+Bx^n)}{be(1+m+n(2+p))} \\
&- \frac{\left(A(ad(1+m) - bc(1+m+n(2+p))) + \frac{a(1+m)(Abdn - aBd(1+m+n) + bBc(1+m+n(2+p)))}{b(1+m+n+np)} \right) (ex)^{1+m} (a+bx^n)^p}{be(1+m)(1+m+n(2+p))}
\end{aligned}$$

Mathematica [A] (verified)

Time = 0.28 (sec) , antiderivative size = 164, normalized size of antiderivative = 0.61

$$\int (ex)^m (a + bx^n)^p (A + Bx^n) (c + dx^n) dx$$

$$= x(ex)^m (a + bx^n)^p \left(1 + \frac{bx^n}{a} \right)^{-p} \left(\frac{Ac \operatorname{Hypergeometric2F1} \left(\frac{1+m}{n}, -p, \frac{1+m+n}{n}, -\frac{bx^n}{a} \right)}{1+m} \right.$$

$$+ x^n \left(\frac{(Bc + Ad) \operatorname{Hypergeometric2F1} \left(\frac{1+m+n}{n}, -p, \frac{1+m+2n}{n}, -\frac{bx^n}{a} \right)}{1+m+n} \right.$$

$$\left. \left. + \frac{Bdx^n \operatorname{Hypergeometric2F1} \left(\frac{1+m+2n}{n}, -p, \frac{1+m+3n}{n}, -\frac{bx^n}{a} \right)}{1+m+2n} \right) \right)$$

[In] Integrate[(e*x)^m*(a + b*x^n)^p*(A + B*x^n)*(c + d*x^n),x]

[Out] (x*(e*x)^m*(a + b*x^n)^p*((A*c*Hypergeometric2F1[(1 + m)/n, -p, (1 + m + n)/n, -((b*x^n)/a)])/(1 + m) + x^n*((B*c + A*d)*Hypergeometric2F1[(1 + m + n)/n, -p, (1 + m + 2*n)/n, -((b*x^n)/a)])/(1 + m + n) + (B*d*x^n*Hypergeometric2F1[(1 + m + 2*n)/n, -p, (1 + m + 3*n)/n, -((b*x^n)/a)])/(1 + m + 2*n)))/(1 + (b*x^n)/a)^p

Maple [F]

$$\int (ex)^m (a + bx^n)^p (A + Bx^n) (c + dx^n) dx$$

[In] int((e*x)^m*(a+b*x^n)^p*(A+B*x^n)*(c+d*x^n),x)

[Out] int((e*x)^m*(a+b*x^n)^p*(A+B*x^n)*(c+d*x^n),x)

Fricas [F]

$$\int (ex)^m (a + bx^n)^p (A + Bx^n) (c + dx^n) dx = \int (Bx^n + A)(dx^n + c)(bx^n + a)^p (ex)^m dx$$

[In] integrate((e*x)^m*(a+b*x^n)^p*(A+B*x^n)*(c+d*x^n),x, algorithm="fricas")

[Out] integral((B*d*x^(2*n) + A*c + (B*c + A*d)*x^n)*(b*x^n + a)^p*(e*x)^m, x)

Sympy [F(-1)]

Timed out.

$$\int (ex)^m (a + bx^n)^p (A + Bx^n) (c + dx^n) dx = \text{Timed out}$$

[In] integrate((e*x)**m*(a+b*x**n)**p*(A+B*x**n)*(c+d*x**n), x)

[Out] Timed out

Maxima [F]

$$\int (ex)^m (a + bx^n)^p (A + Bx^n) (c + dx^n) dx = \int (Bx^n + A)(dx^n + c)(bx^n + a)^p (ex)^m dx$$

[In] integrate((e*x)^m*(a+b*x^n)^p*(A+B*x^n)*(c+d*x^n), x, algorithm="maxima")

[Out] integrate((B*x^n + A)*(d*x^n + c)*(b*x^n + a)^p*(e*x)^m, x)

Giac [F(-2)]

Exception generated.

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

[In] integrate((e*x)^m*(a+b*x^n)^p*(A+B*x^n)*(c+d*x^n), x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{-1, [1,0,4,3,0,1,3,3,1,1,0,0]}+%%{-3, [1,0,4,3,0,1,2,3,1,1,0,0]}%

Mupad [F(-1)]

Timed out.

$$\int (ex)^m (a + bx^n)^p (A + Bx^n) (c + dx^n) dx = \int (ex)^m (A + Bx^n) (a + bx^n)^p (c + dx^n) dx$$

[In] int((e*x)^m*(A + B*x^n)*(a + b*x^n)^p*(c + d*x^n), x)

[Out] int((e*x)^m*(A + B*x^n)*(a + b*x^n)^p*(c + d*x^n), x)

3.43 $\int \frac{(ex)^m (a+bx^n)^p (A+Bx^n)}{c+dx^n} dx$

Optimal result	1113
Rubi [A] (verified)	1113
Mathematica [A] (verified)	1115
Maple [F]	1115
Fricas [F]	1116
Sympy [F(-2)]	1116
Maxima [F]	1116
Giac [F]	1116
Mupad [F(-1)]	1117

Optimal result

Integrand size = 31, antiderivative size = 164

$$\int \frac{(ex)^m (a+bx^n)^p (A+Bx^n)}{c+dx^n} dx$$

$$= -\frac{(Bc-Ad)(ex)^{1+m} (a+bx^n)^p \left(1+\frac{bx^n}{a}\right)^{-p} \text{AppellF1}\left(\frac{1+m}{n}, -p, 1, \frac{1+m+n}{n}, -\frac{bx^n}{a}, -\frac{dx^n}{c}\right)}{cde(1+m)}$$

$$+ \frac{B(ex)^{1+m} (a+bx^n)^p \left(1+\frac{bx^n}{a}\right)^{-p} \text{Hypergeometric2F1}\left(\frac{1+m}{n}, -p, \frac{1+m+n}{n}, -\frac{bx^n}{a}\right)}{de(1+m)}$$

[Out] $-(-A*d+B*c)*(e*x)^{(1+m)}*(a+b*x^n)^p*\text{AppellF1}\left(\frac{(1+m)}{n}, -p, 1, \frac{(1+m+n)}{n}, -b*x^n/a, -d*x^n/c\right)/c/d/e/(1+m)/\left(\left(1+b*x^n/a\right)^p\right)+B*(e*x)^{(1+m)}*(a+b*x^n)^p*\text{hypergeom}\left(\left[-p, (1+m)/n\right], \left[\frac{(1+m+n)}{n}\right], -b*x^n/a\right)/d/e/(1+m)/\left(\left(1+b*x^n/a\right)^p\right)$

Rubi [A] (verified)

Time = 0.12 (sec) , antiderivative size = 164, normalized size of antiderivative = 1.00, number of steps used = 6, number of rules used = 5, $\frac{\text{number of rules}}{\text{integrand size}} = 0.161$, Rules used = {611, 372, 371, 525, 524}

$$\int \frac{(ex)^m (a+bx^n)^p (A+Bx^n)}{c+dx^n} dx$$

$$= \frac{B(ex)^{m+1} (a+bx^n)^p \left(\frac{bx^n}{a} + 1\right)^{-p} \text{Hypergeometric2F1}\left(\frac{m+1}{n}, -p, \frac{m+n+1}{n}, -\frac{bx^n}{a}\right)}{de(m+1)}$$

$$- \frac{(ex)^{m+1} (Bc-Ad) (a+bx^n)^p \left(\frac{bx^n}{a} + 1\right)^{-p} \text{AppellF1}\left(\frac{m+1}{n}, -p, 1, \frac{m+n+1}{n}, -\frac{bx^n}{a}, -\frac{dx^n}{c}\right)}{cde(m+1)}$$

[In] $\text{Int}\left[\frac{(e*x)^m*(a+b*x^n)^p*(A+B*x^n)}{c+d*x^n}, x\right]$

[Out] $-\left(\frac{(Bc - Ad)(ex)^{1+m}(a + bx^n)^p \text{AppellF1}\left[\frac{1+m}{n}, -p, 1, \frac{1+m+n}{n}, -\frac{bx^n}{a}, -\frac{dx^n}{c}\right]}{cde(1+m)(1 + \frac{bx^n}{a})^p} + \frac{B(ex)^{1+m}(a + bx^n)^p \text{Hypergeometric2F1}\left[\frac{1+m}{n}, -p, \frac{1+m+n}{n}, -\frac{bx^n}{a}\right]}{de(1+m)(1 + \frac{bx^n}{a})^p}\right)$

Rule 371

Int[((c_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] :> Simp[a^p*((c*x)^(m+1)/(c*(m+1)))*Hypergeometric2F1[-p, (m+1)/n, (m+1)/n+1, (-b)*(x^n/a)], x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILtQ[p, 0] || GtQ[a, 0])

Rule 372

Int[((c_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] :> Dist[a^IntPart[p]*((a + bx^n)^FracPart[p]/(1 + b*(x^n/a))^FracPart[p]), Int[(c*x)^m*(1 + b*(x^n/a))^p, x], x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && !(ILtQ[p, 0] || GtQ[a, 0])

Rule 524

Int[((e_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_), x_Symbol] :> Simp[a^p*c^q*((ex)^(m+1)/(e*(m+1)))*AppellF1[(m+1)/n, -p, -q, 1 + (m+1)/n, (-b)*(x^n/a), (-d)*(x^n/c)], x] /; FreeQ[{a, b, c, d, e, m, n, p, q}, x] && NeQ[b*c - a*d, 0] && NeQ[m, -1] && NeQ[m, n - 1] && (IntegerQ[p] || GtQ[a, 0]) && (IntegerQ[q] || GtQ[c, 0])

Rule 525

Int[((e_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_), x_Symbol] :> Dist[a^IntPart[p]*((a + bx^n)^FracPart[p]/(1 + b*(x^n/a))^FracPart[p]), Int[(ex)^m*(1 + b*(x^n/a))^p*(c + d*x^n)^q, x], x] /; FreeQ[{a, b, c, d, e, m, n, p, q}, x] && NeQ[b*c - a*d, 0] && NeQ[m, -1] && NeQ[m, n - 1] && !(IntegerQ[p] || GtQ[a, 0])

Rule 611

Int[(((g_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((e_) + (f_)*(x_)^(n_)))/((c_) + (d_)*(x_)^(n_)), x_Symbol] :> Int[ExpandIntegrand[(g*x)^m*(a + bx^n)^p*((e + f*x^n)/(c + d*x^n)), x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n, p}, x]

Rubi steps

$$\text{integral} = \int \left(\frac{B(ex)^m (a + bx^n)^p}{d} + \frac{(-Bc + Ad)(ex)^m (a + bx^n)^p}{d(c + dx^n)} \right) dx$$

$$\begin{aligned}
&= \frac{B \int (ex)^m (a + bx^n)^p dx}{d} + \frac{(-Bc + Ad) \int \frac{(ex)^m (a + bx^n)^p}{c + dx^n} dx}{d} \\
&= \frac{\left(B(a + bx^n)^p \left(1 + \frac{bx^n}{a} \right)^{-p} \right) \int (ex)^m \left(1 + \frac{bx^n}{a} \right)^p dx}{d} \\
&\quad + \frac{\left((-Bc + Ad) (a + bx^n)^p \left(1 + \frac{bx^n}{a} \right)^{-p} \right) \int \frac{(ex)^m \left(1 + \frac{bx^n}{a} \right)^p}{c + dx^n} dx}{d} \\
&= - \frac{(Bc - Ad)(ex)^{1+m} (a + bx^n)^p \left(1 + \frac{bx^n}{a} \right)^{-p} F_1\left(\frac{1+m}{n}; -p, 1; \frac{1+m+n}{n}; -\frac{bx^n}{a}, -\frac{dx^n}{c}\right)}{cde(1+m)} \\
&\quad + \frac{B(ex)^{1+m} (a + bx^n)^p \left(1 + \frac{bx^n}{a} \right)^{-p} {}_2F_1\left(\frac{1+m}{n}, -p; \frac{1+m+n}{n}; -\frac{bx^n}{a}\right)}{de(1+m)}
\end{aligned}$$

Mathematica [A] (verified)

Time = 0.64 (sec) , antiderivative size = 138, normalized size of antiderivative = 0.84

$$\begin{aligned}
&\int \frac{(ex)^m (a + bx^n)^p (A + Bx^n)}{c + dx^n} dx \\
&= \frac{x(ex)^m (a + bx^n)^p \left(1 + \frac{bx^n}{a} \right)^{-p} \left(A(1 + m + n) \operatorname{AppellF1}\left(\frac{1+m}{n}, -p, 1, \frac{1+m+n}{n}, -\frac{bx^n}{a}, -\frac{dx^n}{c}\right) + B(1 + m)x^n \right)}{c(1 + m)(1 + m + n)}
\end{aligned}$$

[In] Integrate[((e*x)^m*(a + b*x^n)^p*(A + B*x^n))/(c + d*x^n),x]

[Out] (x*(e*x)^m*(a + b*x^n)^p*(A*(1 + m + n)*AppellF1[(1 + m)/n, -p, 1, (1 + m + n)/n, -((b*x^n)/a), -((d*x^n)/c)] + B*(1 + m)*x^n*AppellF1[(1 + m + n)/n, -p, 1, (1 + m + 2*n)/n, -((b*x^n)/a), -((d*x^n)/c)])/(c*(1 + m)*(1 + m + n)*(1 + (b*x^n)/a)^p)

Maple [F]

$$\int \frac{(ex)^m (a + bx^n)^p (A + Bx^n)}{c + dx^n} dx$$

[In] int((e*x)^m*(a+b*x^n)^p*(A+B*x^n)/(c+d*x^n),x)

[Out] int((e*x)^m*(a+b*x^n)^p*(A+B*x^n)/(c+d*x^n),x)

Fricas [F]

$$\int \frac{(ex)^m (a + bx^n)^p (A + Bx^n)}{c + dx^n} dx = \int \frac{(Bx^n + A)(bx^n + a)^p (ex)^m}{dx^n + c} dx$$

[In] integrate((e*x)~m*(a+b*x^n)^p*(A+B*x^n)/(c+d*x^n),x, algorithm="fricas")

[Out] integral((B*x^n + A)*(b*x^n + a)^p*(e*x)~m/(d*x^n + c), x)

Sympy [F(-2)]

Exception generated.

$$\int \frac{(ex)^m (a + bx^n)^p (A + Bx^n)}{c + dx^n} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((e*x)**m*(a+b*x**n)**p*(A+B*x**n)/(c+d*x**n),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

Maxima [F]

$$\int \frac{(ex)^m (a + bx^n)^p (A + Bx^n)}{c + dx^n} dx = \int \frac{(Bx^n + A)(bx^n + a)^p (ex)^m}{dx^n + c} dx$$

[In] integrate((e*x)~m*(a+b*x^n)^p*(A+B*x^n)/(c+d*x^n),x, algorithm="maxima")

[Out] integrate((B*x^n + A)*(b*x^n + a)^p*(e*x)~m/(d*x^n + c), x)

Giac [F]

$$\int \frac{(ex)^m (a + bx^n)^p (A + Bx^n)}{c + dx^n} dx = \int \frac{(Bx^n + A)(bx^n + a)^p (ex)^m}{dx^n + c} dx$$

[In] integrate((e*x)~m*(a+b*x^n)^p*(A+B*x^n)/(c+d*x^n),x, algorithm="giac")

[Out] integrate((B*x^n + A)*(b*x^n + a)^p*(e*x)~m/(d*x^n + c), x)

Mupad [F(-1)]

Timed out.

$$\int \frac{(ex)^m (a + bx^n)^p (A + Bx^n)}{c + dx^n} dx = \int \frac{(ex)^m (A + Bx^n) (a + bx^n)^p}{c + dx^n} dx$$

```
[In] int(((e*x)^m*(A + B*x^n)*(a + b*x^n)^p)/(c + d*x^n),x)
```

```
[Out] int(((e*x)^m*(A + B*x^n)*(a + b*x^n)^p)/(c + d*x^n), x)
```

$$3.44 \quad \int \frac{(ex)^m (a+bx^n)^p (A+Bx^n)}{(c+dx^n)^2} dx$$

Optimal result	1118
Rubi [A] (verified)	1118
Mathematica [A] (verified)	.1121
Maple [F]	.1121
Fricas [F]	1122
Sympy [F(-2)]	1122
Maxima [F]	1122
Giac [F]	1122
Mupad [F(-1)]	1123

Optimal result

Integrand size = 31, antiderivative size = 304

$$\int \frac{(ex)^m (a+bx^n)^p (A+Bx^n)}{(c+dx^n)^2} dx = \frac{(Bc-Ad)(ex)^{1+m} (a+bx^n)^{1+p}}{c(bc-ad)en(c+dx^n)}$$

$$\frac{(ad(Bc(1+m)-Ad(1+m-n))+bc(Ad(1+m-n(1-p))-Bc(1+m+np)))(ex)^{1+m} (a+bx^n)^p}{c^2d(bc-ad)e(1+m)n}$$

$$\frac{b(Bc-Ad)(1+m+np)(ex)^{1+m} (a+bx^n)^p (1+\frac{bx^n}{a})^{-p} \text{Hypergeometric2F1}(\frac{1+m}{n}, -p, \frac{1+m+n}{n}, -\frac{bx^n}{a})}{cd(bc-ad)e(1+m)n}$$

```
[Out] (-A*d+B*c)*(e*x)^(1+m)*(a+b*x^n)^(p+1)/c/(-a*d+b*c)/e/n/(c+d*x^n)-(a*d*(B*c
*(1+m)-A*d*(1+m-n))+b*c*(A*d*(1+m-n*(1-p))-B*c*(n*p+m+1))*(e*x)^(1+m)*(a+b
*x^n)^p*AppellF1((1+m)/n,-p,1,(1+m+n)/n,-b*x^n/a,-d*x^n/c)/c^2/d/(-a*d+b*c)
/e/(1+m)/n/((1+b*x^n/a)^p)-b*(-A*d+B*c)*(n*p+m+1)*(e*x)^(1+m)*(a+b*x^n)^p*h
ypergeom([-p,(1+m)/n],[(1+m+n)/n],-b*x^n/a)/c/d/(-a*d+b*c)/e/(1+m)/n/((1+b
*x^n/a)^p)
```

Rubi [A] (verified)

Time = 0.33 (sec) , antiderivative size = 304, normalized size of antiderivative = 1.00, number of steps used = 7, number of rules used = 6, $\frac{\text{number of rules}}{\text{integrand size}} = 0.194$, Rules used

= {609, 611, 372, 371, 525, 524}

$$\int \frac{(ex)^m (a + bx^n)^p (A + Bx^n)}{(c + dx^n)^2} dx =$$

$$\frac{(ex)^{m+1} (a + bx^n)^p \left(\frac{bx^n}{a} + 1\right)^{-p} (ad(Bc(m+1) - Ad(m-n+1)) + bc(Ad(m-n(1-p)+1) - Bc(m+1)))}{c^2 de(m+1)n(bc-ad)}$$

$$\frac{b(ex)^{m+1} (m+np+1)(Bc-Ad) (a + bx^n)^p \left(\frac{bx^n}{a} + 1\right)^{-p} \text{Hypergeometric2F1}\left(\frac{m+1}{n}, -p, \frac{m+n+1}{n}, -\frac{bx^n}{a}\right)}{cde(m+1)n(bc-ad)}$$

$$+ \frac{(ex)^{m+1} (Bc-Ad) (a + bx^n)^{p+1}}{cen(bc-ad)(c+dx^n)}$$

[In] Int[((e*x)^m*(a + b*x^n)^p*(A + B*x^n))/(c + d*x^n)^2,x]

[Out] ((B*c - A*d)*(e*x)^(1 + m)*(a + b*x^n)^(1 + p))/(c*(b*c - a*d)*e*n*(c + d*x^n) - ((a*d*(B*c*(1 + m) - A*d*(1 + m - n)) + b*c*(A*d*(1 + m - n*(1 - p)) - B*c*(1 + m + n*p)))*(e*x)^(1 + m)*(a + b*x^n)^p*AppellF1[(1 + m)/n, -p, 1, (1 + m + n)/n, -(b*x^n)/a, -((d*x^n)/c)]/(c^2*d*(b*c - a*d)*e*(1 + m)*n*(1 + (b*x^n)/a)^p - (b*(B*c - A*d)*(1 + m + n*p)*(e*x)^(1 + m)*(a + b*x^n)^p*Hypergeometric2F1[(1 + m)/n, -p, (1 + m + n)/n, -(b*x^n)/a])/(c*d*(b*c - a*d)*e*(1 + m)*n*(1 + (b*x^n)/a)^p)

Rule 371

Int[((c_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_), x_Symbol] :> Simp[a^p*((c*x)^(m+1)/(c*(m+1)))*Hypergeometric2F1[-p, (m+1)/n, (m+1)/n+1, (-b)*(x^n/a)], x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILtQ[p, 0] || GtQ[a, 0])

Rule 372

Int[((c_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_), x_Symbol] :> Dist[a^IntPart[p]*((a + b*x^n)^FracPart[p]/(1 + b*(x^n/a))^FracPart[p]), Int[(c*x)^m*(1 + b*(x^n/a))^p, x], x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && !(ILtQ[p, 0] || GtQ[a, 0])

Rule 524

Int[((e_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_)*((c_) + (d_.)*(x_)^(n_))^(q_), x_Symbol] :> Simp[a^p*c^q*((e*x)^(m+1)/(e*(m+1)))*AppellF1[(m+1)/n, -p, -q, 1 + (m+1)/n, (-b)*(x^n/a), (-d)*(x^n/c)], x] /; FreeQ[{a, b, c, d, e, m, n, p, q}, x] && NeQ[b*c - a*d, 0] && NeQ[m, -1] && NeQ[m, n - 1] && (IntegerQ[p] || GtQ[a, 0]) && (IntegerQ[q] || GtQ[c, 0])

Rule 525

Int[((e_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_)*((c_) + (d_.)*(x_)^(n_))^(q_), x_Symbol] :> Dist[a^IntPart[p]*((a + b*x^n)^FracPart[p]/(1 + b*(x^n/a))^FracPart[p]), Int[(c*x)^m*(1 + b*(x^n/a))^p, x], x] /; FreeQ[{a, b, c, d, e, m, n, p, q}, x] && NeQ[b*c - a*d, 0] && NeQ[m, -1] && NeQ[m, n - 1] && (IntegerQ[p] || GtQ[a, 0]) && (IntegerQ[q] || GtQ[c, 0])

$n/a)^{\text{FracPart}[p]}$), $\text{Int}[(e*x)^m*(1 + b*(x^n/a))^p*(c + d*x^n)^q, x], x] /;$
 $\text{FreeQ}\{a, b, c, d, e, m, n, p, q\}, x\} \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[m, -1] \&\&$
 $\text{NeQ}[m, n - 1] \&\& \text{!(IntegerQ}[p] \mid\mid \text{GtQ}[a, 0])$

Rule 609

$\text{Int}[((g_*)*(x_*)^{(m_*)}*((a_*) + (b_*)*(x_*)^{(n_*)})^{(p_*)}*((c_*) + (d_*)*(x_*)^{(n_*)})^{(q_*)}*((e_*) + (f_*)*(x_*)^{(n_*)}), x_Symbol] \rightarrow \text{Simp}[(-b*e - a*f)*(g*x)^{(m+1)}*(a + b*x^n)^{(p+1)}*((c + d*x^n)^{(q+1)}/(a*g*n*(b*c - a*d)*(p+1))], x] + \text{Dist}[1/(a*n*(b*c - a*d)*(p+1)), \text{Int}[(g*x)^m*(a + b*x^n)^{(p+1)}*(c + d*x^n)^q*\text{Simp}[c*(b*e - a*f)*(m+1) + e*n*(b*c - a*d)*(p+1) + d*(b*e - a*f)*(m + n*(p+q+2) + 1)*x^n, x], x], x] /;$ $\text{FreeQ}\{a, b, c, d, e, f, g, m, n, q\}, x\} \&\& \text{LtQ}[p, -1]$

Rule 611

$\text{Int}[(((g_*)*(x_*)^{(m_*)}*((a_*) + (b_*)*(x_*)^{(n_*)})^{(p_*)}*((e_*) + (f_*)*(x_*)^{(n_*)}))/((c_*) + (d_*)*(x_*)^{(n_*)}), x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(g*x)^m*(a + b*x^n)^p*((e + f*x^n)/(c + d*x^n)), x], x] /;$ $\text{FreeQ}\{a, b, c, d, e, f, g, m, n, p\}, x\}$

Rubi steps

$$\begin{aligned} \text{integral} &= \frac{(Bc - Ad)(ex)^{1+m} (a + bx^n)^{1+p}}{c(bc - ad)en (c + dx^n)} \\ &+ \frac{\int \frac{(ex)^m (a+bx^n)^p (-a(Bc-Ad)(1+m)+A(bc-ad)n-b(Bc-Ad)(1+m+np)x^n)}{c+dx^n} dx}{c(bc - ad)n} \\ &= \frac{(Bc - Ad)(ex)^{1+m} (a + bx^n)^{1+p}}{c(bc - ad)en (c + dx^n)} \\ &+ \frac{\int \left(-\frac{b(Bc-Ad)(1+m+np)(ex)^m (a+bx^n)^p}{d} + \frac{(d(-a(Bc-Ad)(1+m)+A(bc-ad)n)+bc(Bc-Ad)(1+m+np))(ex)^m (a+bx^n)^p}{d(c+dx^n)} \right) dx}{c(bc - ad)n} \\ &= \frac{(Bc - Ad)(ex)^{1+m} (a + bx^n)^{1+p}}{c(bc - ad)en (c + dx^n)} - \frac{(b(Bc - Ad)(1 + m + np)) \int (ex)^m (a + bx^n)^p dx}{cd(bc - ad)n} \\ &+ \frac{(d(-a(Bc - Ad)(1 + m) + A(bc - ad)n) + bc(Bc - Ad)(1 + m + np)) \int \frac{(ex)^m (a+bx^n)^p}{c+dx^n} dx}{cd(bc - ad)n} \end{aligned}$$

$$\begin{aligned}
&= \frac{(Bc - Ad)(ex)^{1+m} (a + bx^n)^{1+p}}{c(bc - ad)en (c + dx^n)} \\
&\quad - \frac{\left(b(Bc - Ad)(1 + m + np) (a + bx^n)^p \left(1 + \frac{bx^n}{a}\right)^{-p}\right) \int (ex)^m \left(1 + \frac{bx^n}{a}\right)^p dx}{cd(bc - ad)n} \\
&\quad + \frac{\left((d(-a(Bc - Ad)(1 + m) + A(bc - ad)n) + bc(Bc - Ad)(1 + m + np)) (a + bx^n)^p \left(1 + \frac{bx^n}{a}\right)^{-1}\right)}{cd(bc - ad)n} \\
&= \frac{(Bc - Ad)(ex)^{1+m} (a + bx^n)^{1+p}}{c(bc - ad)en (c + dx^n)} \\
&\quad - \frac{(ad(Bc - Ad)(1 + m) - Ad(bc - ad)n - bc(Bc - Ad)(1 + m + np))(ex)^{1+m} (a + bx^n)^p \left(1 + \frac{bx^n}{a}\right)^{-1}}{c^2d(bc - ad)e(1 + m)n} \\
&\quad - \frac{b(Bc - Ad)(1 + m + np)(ex)^{1+m} (a + bx^n)^p \left(1 + \frac{bx^n}{a}\right)^{-p} {}_2F_1\left(\frac{1+m}{n}, -p; \frac{1+m+n}{n}; -\frac{bx^n}{a}\right)}{cd(bc - ad)e(1 + m)n}
\end{aligned}$$

Mathematica [A] (verified)

Time = 0.77 (sec) , antiderivative size = 138, normalized size of antiderivative = 0.45

$$\begin{aligned}
&\int \frac{(ex)^m (a + bx^n)^p (A + Bx^n)}{(c + dx^n)^2} dx \\
&= \frac{x(ex)^m (a + bx^n)^p \left(1 + \frac{bx^n}{a}\right)^{-p} \left(A(1 + m + n) \operatorname{AppellF1}\left(\frac{1+m}{n}, -p, 2, \frac{1+m+n}{n}, -\frac{bx^n}{a}, -\frac{dx^n}{c}\right) + B(1 + m)x^n\right)}{c^2(1 + m)(1 + m + n)}
\end{aligned}$$

[In] Integrate[((e*x)^m*(a + b*x^n)^p*(A + B*x^n))/(c + d*x^n)^2,x]

[Out] (x*(e*x)^m*(a + b*x^n)^p*(A*(1 + m + n)*AppellF1[(1 + m)/n, -p, 2, (1 + m + n)/n, -(b*x^n)/a, -(d*x^n)/c] + B*(1 + m)*x^n*AppellF1[(1 + m + n)/n, -p, 2, (1 + m + 2*n)/n, -(b*x^n)/a, -(d*x^n)/c]))/(c^2*(1 + m)*(1 + m + n)*(1 + (b*x^n)/a)^p)

Maple [F]

$$\int \frac{(ex)^m (a + bx^n)^p (A + Bx^n)}{(c + dx^n)^2} dx$$

[In] int((e*x)^m*(a+b*x^n)^p*(A+B*x^n)/(c+d*x^n)^2,x)

[Out] int((e*x)^m*(a+b*x^n)^p*(A+B*x^n)/(c+d*x^n)^2,x)

Fricas [F]

$$\int \frac{(ex)^m (a + bx^n)^p (A + Bx^n)}{(c + dx^n)^2} dx = \int \frac{(Bx^n + A)(bx^n + a)^p (ex)^m}{(dx^n + c)^2} dx$$

[In] integrate((e*x)^m*(a+b*x^n)^p*(A+B*x^n)/(c+d*x^n)^2,x, algorithm="fricas")

[Out] integral((B*x^n + A)*(b*x^n + a)^p*(e*x)^m/(d^2*x^(2*n) + 2*c*d*x^n + c^2), x)

Sympy [F(-2)]

Exception generated.

$$\int \frac{(ex)^m (a + bx^n)^p (A + Bx^n)}{(c + dx^n)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((e*x)**m*(a+b*x**n)**p*(A+B*x**n)/(c+d*x**n)**2,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

Maxima [F]

$$\int \frac{(ex)^m (a + bx^n)^p (A + Bx^n)}{(c + dx^n)^2} dx = \int \frac{(Bx^n + A)(bx^n + a)^p (ex)^m}{(dx^n + c)^2} dx$$

[In] integrate((e*x)^m*(a+b*x^n)^p*(A+B*x^n)/(c+d*x^n)^2,x, algorithm="maxima")

[Out] integrate((B*x^n + A)*(b*x^n + a)^p*(e*x)^m/(d*x^n + c)^2, x)

Giac [F]

$$\int \frac{(ex)^m (a + bx^n)^p (A + Bx^n)}{(c + dx^n)^2} dx = \int \frac{(Bx^n + A)(bx^n + a)^p (ex)^m}{(dx^n + c)^2} dx$$

[In] integrate((e*x)^m*(a+b*x^n)^p*(A+B*x^n)/(c+d*x^n)^2,x, algorithm="giac")

[Out] integrate((B*x^n + A)*(b*x^n + a)^p*(e*x)^m/(d*x^n + c)^2, x)

Mupad [F(-1)]

Timed out.

$$\int \frac{(ex)^m (a + bx^n)^p (A + Bx^n)}{(c + dx^n)^2} dx = \int \frac{(ex)^m (A + Bx^n) (a + bx^n)^p}{(c + dx^n)^2} dx$$

```
[In] int(((e*x)^m*(A + B*x^n)*(a + b*x^n)^p)/(c + d*x^n)^2,x)
```

```
[Out] int(((e*x)^m*(A + B*x^n)*(a + b*x^n)^p)/(c + d*x^n)^2, x)
```

$$3.45 \quad \int \frac{(-a+bx^{n/2})^{-1+\frac{1}{n}} (a+bx^{n/2})^{-1+\frac{1}{n}} (c+dx^n)}{x^2} dx$$

Optimal result	1124
Rubi [A] (verified)	1124
Mathematica [A] (verified)	1126
Maple [F]	1126
Fricas [F]	1126
Sympy [F(-1)]	1127
Maxima [F]	1127
Giac [F]	1127
Mupad [F(-1)]	1128

Optimal result

Integrand size = 47, antiderivative size = 139

$$\int \frac{(-a+bx^{n/2})^{-1+\frac{1}{n}} (a+bx^{n/2})^{-1+\frac{1}{n}} (c+dx^n)}{x^2} dx = \frac{\left(\frac{c}{a^2} + \frac{d}{b^2}\right) (-a+bx^{n/2})^{\frac{1}{n}} (a+bx^{n/2})^{\frac{1}{n}}}{x} - \frac{d(-a+bx^{n/2})^{\frac{1}{n}} (a+bx^{n/2})^{\frac{1}{n}} \left(1 - \frac{b^2x^n}{a^2}\right)^{-1/n} \text{Hypergeometric2F1}\left(-\frac{1}{n}, -\frac{1}{n}, -\frac{1-n}{n}, \frac{b^2x^n}{a^2}\right)}{b^2x}$$

[Out] (c/a^2+d/b^2)*(-a+b*x^(1/2*n))^(1/n)*(a+b*x^(1/2*n))^(1/n)/x-d*(-a+b*x^(1/2*n))^(1/n)*(a+b*x^(1/2*n))^(1/n)*hypergeom([-1/n, -1/n], [(-1+n)/n], b^2*x^n/a^2)/b^2/x/((1-b^2*x^n/a^2)^(1/n))

Rubi [A] (verified)

Time = 0.07 (sec) , antiderivative size = 139, normalized size of antiderivative = 1.00, number of steps used = 4, number of rules used = 4, $\frac{\text{number of rules}}{\text{integrand size}} = 0.085$, Rules used = {533, 463, 372, 371}

$$\int \frac{(-a+bx^{n/2})^{-1+\frac{1}{n}} (a+bx^{n/2})^{-1+\frac{1}{n}} (c+dx^n)}{x^2} dx = \frac{\left(\frac{c}{a^2} + \frac{d}{b^2}\right) (bx^{n/2} - a)^{\frac{1}{n}} (a+bx^{n/2})^{\frac{1}{n}}}{x} - \frac{d(bx^{n/2} - a)^{\frac{1}{n}} (a+bx^{n/2})^{\frac{1}{n}} \left(1 - \frac{b^2x^n}{a^2}\right)^{-1/n} \text{Hypergeometric2F1}\left(-\frac{1}{n}, -\frac{1}{n}, -\frac{1-n}{n}, \frac{b^2x^n}{a^2}\right)}{b^2x}$$

[In] Int[((-a + b*x^(n/2))^(1/n - 1) * (a + b*x^(n/2))^(1/n - 1) * (c + d*x^n)) / x^2, x]

[Out] $((c/a^2 + d/b^2)*(-a + b*x^{(n/2)})^n)^{-1}*(a + b*x^{(n/2)})^n)^{-1}/x - (d*(-a + b*x^{(n/2)})^n)^{-1}*(a + b*x^{(n/2)})^n)^{-1}*Hypergeometric2F1[-n^(-1), -n^(-1), -((1 - n)/n), (b^2*x^n)/a^2])/(b^2*x*(1 - (b^2*x^n)/a^2)^n)^{-1})$

Rule 371

Int[((c_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_), x_Symbol] := Simp[a^p * ((c*x)^(m + 1)/(c*(m + 1)))*Hypergeometric2F1[-p, (m + 1)/n, (m + 1)/n + 1, (-b)*(x^n/a)], x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILtQ[p, 0] || GtQ[a, 0])

Rule 372

Int[((c_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_), x_Symbol] := Dist[a^IntPart[p]*((a + b*x^n)^FracPart[p]/(1 + b*(x^n/a))^FracPart[p]), Int[(c*x)^m*(1 + b*(x^n/a))^p, x], x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && !(ILtQ[p, 0] || GtQ[a, 0])

Rule 463

Int[((e_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_.)*((c_) + (d_.)*(x_)^(n_)), x_Symbol] := Simp[(b*c - a*d)*(e*x)^(m + 1)*((a + b*x^n)^(p + 1)/(a*b*e*(m + 1))), x] + Dist[d/b, Int[(e*x)^m*(a + b*x^n)^(p + 1), x], x] /; FreeQ[{a, b, c, d, e, m, n, p}, x] && NeQ[b*c - a*d, 0] && EqQ[m + n*(p + 1) + 1, 0] && NeQ[m, -1]

Rule 533

Int[(u_.)*((c_) + (d_.)*(x_)^(n_.))^(q_.)*((a1_.) + (b1_.)*(x_)^(non2_.))^(p_) * ((a2_.) + (b2_.)*(x_)^(non2_.))^(p_), x_Symbol] := Dist[(a1 + b1*x^(n/2))^FracPart[p]*((a2 + b2*x^(n/2))^FracPart[p]/(a1*a2 + b1*b2*x^n)^FracPart[p]), Int[u*(a1*a2 + b1*b2*x^n)^p*(c + d*x^n)^q, x], x] /; FreeQ[{a1, b1, a2, b2, c, d, n, p, q}, x] && EqQ[non2, n/2] && EqQ[a2*b1 + a1*b2, 0] && !(EqQ[n, 2] && IGtQ[q, 0])

Rubi steps

$$\begin{aligned} \text{integral} &= \left((-a + bx^{n/2})^{\frac{1}{n}} (a + bx^{n/2})^{\frac{1}{n}} (-a^2 + b^2x^n)^{-1/n} \right) \int \frac{(-a^2 + b^2x^n)^{-1 + \frac{1}{n}} (c + dx^n)}{x^2} dx \\ &= \frac{\left(\frac{c}{a^2} + \frac{d}{b^2} \right) (-a + bx^{n/2})^{\frac{1}{n}} (a + bx^{n/2})^{\frac{1}{n}}}{x} \\ &\quad + \frac{\left(d(-a + bx^{n/2})^{\frac{1}{n}} (a + bx^{n/2})^{\frac{1}{n}} (-a^2 + b^2x^n)^{-1/n} \right) \int \frac{(-a^2 + b^2x^n)^{\frac{1}{n}}}{x^2} dx}{b^2} \end{aligned}$$

$$\begin{aligned}
&= \frac{\left(\frac{c}{a^2} + \frac{d}{b^2}\right) (-a + bx^{n/2})^{\frac{1}{n}} (a + bx^{n/2})^{\frac{1}{n}}}{x} \\
&\quad + \frac{\left(d(-a + bx^{n/2})^{\frac{1}{n}} (a + bx^{n/2})^{\frac{1}{n}} \left(1 - \frac{b^2 x^n}{a^2}\right)^{-1/n}\right) \int \frac{\left(1 - \frac{b^2 x^n}{a^2}\right)^{\frac{1}{n}}}{x^2} dx}{b^2} \\
&= \frac{\left(\frac{c}{a^2} + \frac{d}{b^2}\right) (-a + bx^{n/2})^{\frac{1}{n}} (a + bx^{n/2})^{\frac{1}{n}}}{x} \\
&\quad - \frac{d(-a + bx^{n/2})^{\frac{1}{n}} (a + bx^{n/2})^{\frac{1}{n}} \left(1 - \frac{b^2 x^n}{a^2}\right)^{-1/n} {}_2F_1\left(-\frac{1}{n}, -\frac{1}{n}; -\frac{1-n}{n}; \frac{b^2 x^n}{a^2}\right)}{b^2 x}
\end{aligned}$$

Mathematica [A] (verified)

Time = 0.41 (sec) , antiderivative size = 124, normalized size of antiderivative = 0.89

$$\int \frac{(-a + bx^{n/2})^{-1+\frac{1}{n}} (a + bx^{n/2})^{-1+\frac{1}{n}} (c + dx^n)}{x^2} dx = \frac{(-a + bx^{n/2})^{\frac{1}{n}} (a + bx^{n/2})^{\frac{1}{n}} \left(1 - \frac{b^2 x^n}{a^2}\right)^{-1/n} \left(c(-1 + n) + d x^n\right)}{x^2}$$

[In] Integrate[((-a + b*x^(n/2))^(n^(-1)+1))*(a + b*x^(n/2))^(n^(-1)+1)*(c + d*x^n)/x^2,x]

[Out] ((-a + b*x^(n/2))^(n^(-1)+1)*(a + b*x^(n/2))^(n^(-1)+1)*(c*(-1 + n)*(1 - (b^2*x^n)/a^2)^(n^(-1)) - d*x^n*Hypergeometric2F1[(-1 + n)/n, (-1 + n)/n, 2 - n^(-1), (b^2*x^n)/a^2]))/(a^2*(-1 + n)*x*(1 - (b^2*x^n)/a^2)^(n^(-1)))

Maple [F]

$$\int \frac{(-a + bx^{\frac{n}{2}})^{-1+\frac{1}{n}} (a + bx^{\frac{n}{2}})^{-1+\frac{1}{n}} (c + dx^n)}{x^2} dx$$

[In] int((-a+b*x^(1/2*n))^(n^(-1)+1)*(a+b*x^(1/2*n))^(n^(-1)+1)*(c+d*x^n)/x^2,x)

[Out] int((-a+b*x^(1/2*n))^(n^(-1)+1)*(a+b*x^(1/2*n))^(n^(-1)+1)*(c+d*x^n)/x^2,x)

Fricas [F]

$$\int \frac{(-a + bx^{n/2})^{-1+\frac{1}{n}} (a + bx^{n/2})^{-1+\frac{1}{n}} (c + dx^n)}{x^2} dx = \int \frac{(dx^n + c) \left(bx^{\frac{1}{2}n} + a\right)^{\frac{1}{n}-1} \left(bx^{\frac{1}{2}n} - a\right)^{\frac{1}{n}-1}}{x^2} dx$$

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

[Out] integral((d*x^n + c)/((b*x^(1/2*n) + a)^((n - 1)/n)*(b*x^(1/2*n) - a)^((n - 1)/n)*x^2), x)

Sympy [F(-1)]

Timed out.

$$\int \frac{(-a + bx^{n/2})^{-1+\frac{1}{n}} (a + bx^{n/2})^{-1+\frac{1}{n}} (c + dx^n)}{x^2} dx = \text{Timed out}$$

[In] integrate((-a+b*x**(1/2*n))**(-1+1/n)*(a+b*x**(1/2*n))**(-1+1/n)*(c+d*x**n)/x**2,x)

[Out] Timed out

Maxima [F]

$$\int \frac{(-a + bx^{n/2})^{-1+\frac{1}{n}} (a + bx^{n/2})^{-1+\frac{1}{n}} (c + dx^n)}{x^2} dx = \int \frac{(dx^n + c) (bx^{\frac{1}{2}n} + a)^{\frac{1}{n}-1} (bx^{\frac{1}{2}n} - a)^{\frac{1}{n}-1}}{x^2} dx$$

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

[Out] integrate((d*x^n + c)*(b*x^(1/2*n) + a)^(1/n - 1)*(b*x^(1/2*n) - a)^(1/n - 1)/x^2, x)

Giac [F]

$$\int \frac{(-a + bx^{n/2})^{-1+\frac{1}{n}} (a + bx^{n/2})^{-1+\frac{1}{n}} (c + dx^n)}{x^2} dx = \int \frac{(dx^n + c) (bx^{\frac{1}{2}n} + a)^{\frac{1}{n}-1} (bx^{\frac{1}{2}n} - a)^{\frac{1}{n}-1}}{x^2} dx$$

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

[Out] integrate((d*x^n + c)*(b*x^(1/2*n) + a)^(1/n - 1)*(b*x^(1/2*n) - a)^(1/n - 1)/x^2, x)

Mupad [F(-1)]

Timed out.

$$\int \frac{(-a + bx^{n/2})^{-1+\frac{1}{n}} (a + bx^{n/2})^{-1+\frac{1}{n}} (c + dx^n)}{x^2} dx = \int \frac{(a + bx^{n/2})^{\frac{1}{n}-1} (bx^{n/2} - a)^{\frac{1}{n}-1} (c + dx^n)}{x^2} dx$$

```
[In] int(((a + b*x^(n/2))^(1/n - 1)*(b*x^(n/2) - a)^(1/n - 1)*(c + d*x^n))/x^2,x)
```

```
[Out] int(((a + b*x^(n/2))^(1/n - 1)*(b*x^(n/2) - a)^(1/n - 1)*(c + d*x^n))/x^2,x)
```


$$3.46 \quad \int \frac{(-a+bx^{n/2})^{\frac{1-n}{n}} (a+bx^{n/2})^{\frac{1-n}{n}} (c+dx^n)}{x^2} dx$$

Optimal result	1129
Rubi [A] (verified)	1129
Mathematica [A] (verified)	1131
Maple [F]	1131
Fricas [F]	1132
Sympy [F(-1)]	1132
Maxima [F]	1132
Giac [F]	1133
Mupad [F(-1)]	1133

Optimal result

Integrand size = 55, antiderivative size = 139

$$\int \frac{(-a+bx^{n/2})^{\frac{1-n}{n}} (a+bx^{n/2})^{\frac{1-n}{n}} (c+dx^n)}{x^2} dx = \frac{\left(\frac{c}{a^2} + \frac{d}{b^2}\right) (-a+bx^{n/2})^{\frac{1}{n}} (a+bx^{n/2})^{\frac{1}{n}}}{x} - \frac{d(-a+bx^{n/2})^{\frac{1}{n}} (a+bx^{n/2})^{\frac{1}{n}} \left(1 - \frac{b^2x^n}{a^2}\right)^{-1/n} \text{Hypergeometric2F1}\left(-\frac{1}{n}, -\frac{1}{n}, -\frac{1-n}{n}, \frac{b^2x^n}{a^2}\right)}{b^2x}$$

[Out] (c/a^2+d/b^2)*(-a+b*x^(1/2*n))^(1/n)*(a+b*x^(1/2*n))^(1/n)/x-d*(-a+b*x^(1/2*n))^(1/n)*(a+b*x^(1/2*n))^(1/n)*hypergeom([-1/n, -1/n], [(-1+n)/n], b^2*x^n/a^2)/b^2/x/((1-b^2*x^n/a^2)^(1/n))

Rubi [A] (verified)

Time = 0.08 (sec) , antiderivative size = 167, normalized size of antiderivative = 1.20, number of steps used = 4, number of rules used = 4, $\frac{\text{number of rules}}{\text{integrand size}} = 0.073$, Rules used = {533, 463, 372, 371}

$$\int \frac{(-a+bx^{n/2})^{\frac{1-n}{n}} (a+bx^{n/2})^{\frac{1-n}{n}} (c+dx^n)}{x^2} dx = \frac{a^2d(bx^{n/2}-a)^{\frac{1}{n}-1} (a+bx^{n/2})^{\frac{1}{n}-1} \left(1 - \frac{b^2x^n}{a^2}\right)^{-\frac{1-n}{n}} \text{Hypergeometric2F1}\left(-\frac{1-n}{n}, -\frac{1-n}{n}, -\frac{1-n}{n}, \frac{b^2x^n}{a^2}\right)}{b^2x} - \frac{\left(\frac{c}{a^2} + \frac{d}{b^2}\right) (bx^{n/2}-a)^{\frac{1}{n}-1} (a+bx^{n/2})^{\frac{1}{n}-1} (a^2-b^2x^n)}{x}$$

[In] Int[((-a+b*x^(n/2))^(1-n/n)*(a+b*x^(n/2))^(1-n/n)*(c+d*x^n))/x^2,x]

[Out] $-\left(\left(\frac{c}{a^2} + \frac{d}{b^2}\right)(-a + bx^{n/2})^{-1+n(-1)}(a + bx^{n/2})^{-1+n(-1)}(a^2 - b^2x^n)/x + (a^2d(-a + bx^{n/2})^{-1+n(-1)}(a + bx^{n/2})^{-1+n(-1)}\text{Hypergeometric2F1}[-n(-1), -n(-1), -(1-n)/n, (b^2x^n)/a^2])/(b^2x(1 - (b^2x^n)/a^2)^{(1-n)/n})\right)$

Rule 371

$\text{Int}[\left(\frac{c}{a} + \frac{d}{b}\right)(x)^m(a + bx^n)^p, x_Symbol] \rightarrow \text{Simp}[a^p \left(\frac{c}{a} + \frac{d}{b}\right)(x)^m(a + bx^n)^p, x] + \text{Dist}\left[\frac{a^p}{x}, \text{Int}[(c*x)^{m+1}/(c*(m+1))\text{Hypergeometric2F1}[-p, (m+1)/n, (m+1)/n+1, (-b)*(x^n/a)], x], x\right]; \text{FreeQ}\{a, b, c, m, n, p\}, x \&\& \text{!IGtQ}[p, 0] \&\& (\text{ILtQ}[p, 0] \mid \mid \text{GtQ}[a, 0])$

Rule 372

$\text{Int}[\left(\frac{c}{a} + \frac{d}{b}\right)(x)^m(a + bx^n)^p, x_Symbol] \rightarrow \text{Dist}[a^p \text{IntPart}[p] \left(\frac{c}{a} + \frac{d}{b}\right)(x)^m(a + bx^n)^p, x] + \text{Dist}\left[\frac{a^p}{x}, \text{Int}[(c*x)^m(1 + b*(x^n/a))^p, x], x\right]; \text{FreeQ}\{a, b, c, m, n, p\}, x \&\& \text{!IGtQ}[p, 0] \&\& (\text{ILtQ}[p, 0] \mid \mid \text{GtQ}[a, 0])$

Rule 463

$\text{Int}[\left(\frac{c}{a} + \frac{d}{b}\right)(x)^m(e*x)^n(a + bx^n)^p, x_Symbol] \rightarrow \text{Simp}[(b*c - a*d)(e*x)^{m+1}(a + bx^n)^{p+1}/(a*b*e*(m+1)), x] + \text{Dist}[d/b, \text{Int}[(e*x)^m(a + bx^n)^{p+1}, x], x]; \text{FreeQ}\{a, b, c, d, e, m, n, p\}, x \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[m + n*(p + 1) + 1, 0] \&\& \text{NeQ}[m, -1]$

Rule 533

$\text{Int}[(u_1 + u_2)(c_1 + d_1x^{n_1})^{q_1}(a_1 + b_1x^{n_2})^{p_1}(c_2 + d_2x^{n_2})^{q_2}(a_2 + b_2x^{n_2})^{p_2}, x_Symbol] \rightarrow \text{Dist}[(a_1 + b_1x^{n_2})^{p_1} \frac{(c_1 + d_1x^{n_1})^{q_1}}{(a_1a_2 + b_1b_2x^n)^{p_1+p_2}}], \text{Int}[u*(a_1a_2 + b_1b_2x^n)^p(c + dx^n)^q, x], x]; \text{FreeQ}\{a_1, b_1, a_2, b_2, c, d, n, p, q\}, x \&\& \text{EqQ}[non2, n/2] \&\& \text{EqQ}[a_2*b_1 + a_1*b_2, 0] \&\& (\text{EqQ}[n, 2] \&\& \text{IGtQ}[q, 0])$

Rubi steps

$$\begin{aligned} \text{integral} &= \left((-a + bx^{n/2})^{\frac{1-n}{n}} (a + bx^{n/2})^{\frac{1-n}{n}} (-a^2 + b^2x^n)^{-\frac{1-n}{n}} \right) \int \frac{(-a^2 + b^2x^n)^{\frac{1-n}{n}} (c + dx^n)}{x^2} dx \\ &= -\frac{\left(\frac{c}{a^2} + \frac{d}{b^2}\right) (-a + bx^{n/2})^{-1+\frac{1}{n}} (a + bx^{n/2})^{-1+\frac{1}{n}} (a^2 - b^2x^n)}{x} \\ &\quad + \frac{\left(d(-a + bx^{n/2})^{\frac{1-n}{n}} (a + bx^{n/2})^{\frac{1-n}{n}} (-a^2 + b^2x^n)^{-\frac{1-n}{n}}\right) \int \frac{(-a^2 + b^2x^n)^{1+\frac{1-n}{n}}}{x^2} dx}{b^2} \end{aligned}$$

$$\begin{aligned}
&= -\frac{\left(\frac{c}{a^2} + \frac{d}{b^2}\right) (-a + bx^{n/2})^{-1+\frac{1}{n}} (a + bx^{n/2})^{-1+\frac{1}{n}} (a^2 - b^2x^n)}{x} \\
&\quad - \frac{\left(a^2d(-a + bx^{n/2})^{\frac{1-n}{n}} (a + bx^{n/2})^{\frac{1-n}{n}} \left(1 - \frac{b^2x^n}{a^2}\right)^{-\frac{1-n}{n}}\right) \int \frac{\left(1 - \frac{b^2x^n}{a^2}\right)^{1+\frac{1-n}{n}}}{x^2} dx}{b^2} \\
&= -\frac{\left(\frac{c}{a^2} + \frac{d}{b^2}\right) (-a + bx^{n/2})^{-1+\frac{1}{n}} (a + bx^{n/2})^{-1+\frac{1}{n}} (a^2 - b^2x^n)}{x} \\
&\quad + \frac{a^2d(-a + bx^{n/2})^{-1+\frac{1}{n}} (a + bx^{n/2})^{-1+\frac{1}{n}} \left(1 - \frac{b^2x^n}{a^2}\right)^{-\frac{1-n}{n}} {}_2F_1\left(-\frac{1}{n}, -\frac{1}{n}; -\frac{1-n}{n}; \frac{b^2x^n}{a^2}\right)}{b^2x}
\end{aligned}$$

Mathematica [A] (verified)

Time = 0.01 (sec) , antiderivative size = 124, normalized size of antiderivative = 0.89

$$\int \frac{(-a + bx^{n/2})^{\frac{1-n}{n}} (a + bx^{n/2})^{\frac{1-n}{n}} (c + dx^n)}{x^2} dx = \frac{(-a + bx^{n/2})^{\frac{1}{n}} (a + bx^{n/2})^{\frac{1}{n}} \left(1 - \frac{b^2x^n}{a^2}\right)^{-1/n} \left(c(-1 + n)\right)}{x}$$

[In] Integrate[((-a + b*x^(n/2))^(1-n/n)*(a + b*x^(n/2))^(1-n/n)*(c + d*x^n))/x^2,x]

[Out] ((-a + b*x^(n/2))^n^(-1)*(a + b*x^(n/2))^n^(-1)*(c*(-1 + n)*(1 - (b^2*x^n)/a^2))^(-1) - d*x^n*Hypergeometric2F1[(-1 + n)/n, (-1 + n)/n, 2 - n^(-1), (b^2*x^n)/a^2]))/(a^2*(-1 + n)*x*(1 - (b^2*x^n)/a^2)^n^(-1))

Maple [F]

$$\int \frac{(-a + bx^{\frac{n}{2}})^{\frac{1-n}{n}} (a + bx^{\frac{n}{2}})^{\frac{1-n}{n}} (c + dx^n)}{x^2} dx$$

[In] int((-a+b*x^(1/2*n))^(1-n/n)*(a+b*x^(1/2*n))^(1-n/n)*(c+d*x^n)/x^2,x)

[Out] int((-a+b*x^(1/2*n))^(1-n/n)*(a+b*x^(1/2*n))^(1-n/n)*(c+d*x^n)/x^2,x)

Fricas [F]

$$\int \frac{(-a + bx^{n/2})^{\frac{1-n}{n}} (a + bx^{n/2})^{\frac{1-n}{n}} (c + dx^n)}{x^2} dx = \int \frac{dx^n + c}{(bx^{\frac{1}{2}n} + a)^{\frac{n-1}{n}} (bx^{\frac{1}{2}n} - a)^{\frac{n-1}{n}} x^2} dx$$

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

[Out] integral((d*x^n + c)/((b*x^(1/2*n) + a)^(n-1/n)*(b*x^(1/2*n) - a)^(n-1/n)*x^2), x)

Sympy [F(-1)]

Timed out.

$$\int \frac{(-a + bx^{n/2})^{\frac{1-n}{n}} (a + bx^{n/2})^{\frac{1-n}{n}} (c + dx^n)}{x^2} dx = \text{Timed out}$$

[In] integrate((-a+b*x**(1/2*n))**(1-n/n)*(a+b*x**(1/2*n))**(1-n/n)*(c+d*x**n)/x**2,x)

[Out] Timed out

Maxima [F]

$$\int \frac{(-a + bx^{n/2})^{\frac{1-n}{n}} (a + bx^{n/2})^{\frac{1-n}{n}} (c + dx^n)}{x^2} dx = \int \frac{dx^n + c}{(bx^{\frac{1}{2}n} + a)^{\frac{n-1}{n}} (bx^{\frac{1}{2}n} - a)^{\frac{n-1}{n}} x^2} dx$$

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

[Out] integrate((d*x^n + c)/((b*x^(1/2*n) + a)^(n-1/n)*(b*x^(1/2*n) - a)^(n-1/n)*x^2), x)

Giac [F]

$$\int \frac{(-a + bx^{n/2})^{\frac{1-n}{n}} (a + bx^{n/2})^{\frac{1-n}{n}} (c + dx^n)}{x^2} dx = \int \frac{dx^n + c}{\left(bx^{\frac{1}{2}n} + a\right)^{\frac{n-1}{n}} \left(bx^{\frac{1}{2}n} - a\right)^{\frac{n-1}{n}} x^2} dx$$

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

[Out] integrate((d*x^n + c)/((b*x^(1/2*n) + a)^((n - 1)/n)*(b*x^(1/2*n) - a)^((n - 1)/n)*x^2), x)

Mupad [F(-1)]

Timed out.

$$\int \frac{(-a + bx^{n/2})^{\frac{1-n}{n}} (a + bx^{n/2})^{\frac{1-n}{n}} (c + dx^n)}{x^2} dx = \int \frac{c + dx^n}{x^2 (a + bx^{n/2})^{\frac{n-1}{n}} (bx^{n/2} - a)^{\frac{n-1}{n}}} dx$$

[In] int((c + d*x^n)/(x^2*(a + b*x^(n/2))^(n-1/n)*(b*x^(n/2) - a)^(n-1/n)),x)

[Out] int((c + d*x^n)/(x^2*(a + b*x^(n/2))^(n-1/n)*(b*x^(n/2) - a)^(n-1/n)), x)

CHAPTER 4

APPENDIX

4.1 Listing of Grading functions 1135

4.1 Listing of Grading functions

The following are the current version of the grading functions used for grading the quality of the antiderivative with reference to the optimal antiderivative included in the test suite.

There is a version for Maple and for Mathematica/Rubi. There is a version for grading Sympy and version for use with Sagemath.

The following are links to the current source code.

The following are the listings of source code of the grading functions.

Mathematica and Rubi grading function

```
(* Original version thanks to Albert Rich emailed on 03/21/2017 *)
(* ::Package:: *)

(* Nasser: April 7, 2022. add second output which gives reason for the grade *)
(*      Small rewrite of logic in main function to make it*)
(*      match Maple's logic. No change in functionality otherwise*)

(* ::Subsection:: *)
(*GradeAntiderivative[result,optimal]*)

(* ::Text:: *)
(*If result and optimal are mathematical expressions, *)
```

```

(*      GradeAntiderivative[result,optimal] returns*)
(* "F" if the result fails to integrate an expression that*)
(*      is integrable*)
(* "C" if result involves higher level functions than necessary*)
(* "B" if result is more than twice the size of the optimal*)
(*      antiderivative*)
(* "A" if result can be considered optimal*)

GradeAntiderivative[result_,optimal_] := Module[{expnResult,expnOptimal,leafCountResult,leafCo
  expnResult = ExpnType[result];
  expnOptimal = ExpnType[optimal];
  leafCountResult = LeafCount[result];
  leafCountOptimal = LeafCount[optimal];

  (*Print["expnResult=",expnResult," expnOptimal=",expnOptimal];*)
  If[expnResult<=expnOptimal,
    If[Not[FreeQ[result,Complex]], (*result contains complex*)
      If[Not[FreeQ[optimal,Complex]], (*optimal contains complex*)
        If[leafCountResult<=2*leafCountOptimal,
          finalresult={"A",""}
          ,(*ELSE*)
          finalresult={"B","Both result and optimal contain complex but leaf count is
        ]
      ,(*ELSE*)
      finalresult={"C","Result contains complex when optimal does not."}
    ]
    ,(*ELSE*)(*result does not contains complex*)
    If[leafCountResult<=2*leafCountOptimal,
      finalresult={"A",""}
      ,(*ELSE*)
      finalresult={"B","Leaf count is larger than twice the leaf count of optimal. $"}
    ]
  ]
  ,(*ELSE*) (*expnResult>expnOptimal*)
  If[FreeQ[result,Integrate] && FreeQ[result,Int],
    finalresult={"C","Result contains higher order function than in optimal. Order "<>
    ,
    finalresult={"F","Contains unresolved integral."}
  ]
];

  finalresult
]

(* ::Text:: *)
(*The following summarizes the type number assigned an *)

```



```

(*expression based on the functions it involves*)
(*1 = rational function*)
(*2 = algebraic function*)
(*3 = elementary function*)
(*4 = special function*)
(*5 = hyperpergeometric function*)
(*6 = appell function*)
(*7 = rootsum function*)
(*8 = integrate function*)
(*9 = unknown function*)

```

```

ExpnType[expn_] :=
  If[AtomQ[expn],
    1,
    If[ListQ[expn],
      Max[Map[ExpnType, expn]],
      If[Head[expn]===Power,
        If[IntegerQ[expn[[2]]],
          ExpnType[expn[[1]]],
          If[Head[expn[[2]]]===Rational,
            If[IntegerQ[expn[[1]]] || Head[expn[[1]]]===Rational,
              1,
              Max[ExpnType[expn[[1]], 2]],
            Max[ExpnType[expn[[1]], ExpnType[expn[[2]], 3]],
          If[Head[expn]===Plus || Head[expn]===Times,
            Max[ExpnType[First[expn]], ExpnType[Rest[expn]]],
          If[ElementaryFunctionQ[Head[expn]],
            Max[3, ExpnType[expn[[1]]],
          If[SpecialFunctionQ[Head[expn]],
            Apply[Max, Append[Map[ExpnType, Apply[List, expn]], 4]],
          If[HypergeometricFunctionQ[Head[expn]],
            Apply[Max, Append[Map[ExpnType, Apply[List, expn]], 5]],
          If[AppellFunctionQ[Head[expn]],
            Apply[Max, Append[Map[ExpnType, Apply[List, expn]], 6]],
          If[Head[expn]===RootSum,
            Apply[Max, Append[Map[ExpnType, Apply[List, expn]], 7]],
          If[Head[expn]===Integrate || Head[expn]===Int,
            Apply[Max, Append[Map[ExpnType, Apply[List, expn]], 8]],
          9]]]]]]]]]]

```

```

ElementaryFunctionQ[func_] :=
  MemberQ[{
    Exp, Log,
    Sin, Cos, Tan, Cot, Sec, Csc,
    ArcSin, ArcCos, ArcTan, ArcCot, ArcSec, ArcCsc,

```

```

    Sinh, Cosh, Tanh, Coth, Sech, Csch,
    ArcSinh, ArcCosh, ArcTanh, ArcCoth, ArcSech, ArcCsch
  }, func]

SpecialFunctionQ[func_] :=
  MemberQ[{
    Erf, Erfc, Erfi,
    FresnelS, FresnelC,
    ExpIntegralE, ExpIntegralEi, LogIntegral,
    SinIntegral, CosIntegral, SinhIntegral, CoshIntegral,
    Gamma, LogGamma, PolyGamma,
    Zeta, PolyLog, ProductLog,
    EllipticF, EllipticE, EllipticPi
  }, func]

HypergeometricFunctionQ[func_] :=
  MemberQ[{Hypergeometric1F1, Hypergeometric2F1, HypergeometricPFQ}, func]

AppellFunctionQ[func_] :=
  MemberQ[{AppellF1}, func]

```

Maple grading function

```

# File: GradeAntiderivative.mpl
# Original version thanks to Albert Rich emailed on 03/21/2017

#Nasser 03/22/2017 Use Maple leaf count instead since buildin
#Nasser 03/23/2017 missing 'ln' for ElementaryFunctionQ added
#Nasser 03/24/2017 corrected the check for complex result
#Nasser 10/27/2017 check for leafsize and do not call ExpnType()
#
# if leaf size is "too large". Set at 500,000
#Nasser 12/22/2019 Added debug flag, added 'dilog' to special functions
#
# see problem 156, file Apostol_Problems
#Nasser 4/07/2022 add second output which gives reason for the grade

GradeAntiderivative := proc(result, optimal)
local leaf_count_result,
      leaf_count_optimal,
      ExpnType_result,
      ExpnType_optimal,
      debug:=false;

      leaf_count_result:=leafcount(result);

```

```

#do NOT call ExpnType() if leaf size is too large. Recursion problem
if leaf_count_result > 500000 then
    return "B","result has leaf size over 500,000. Avoiding possible recursion issues
fi;

leaf_count_optimal := leafcount(optimal);
ExpnType_result := ExpnType(result);
ExpnType_optimal := ExpnType(optimal);

if debug then
    print("ExpnType_result",ExpnType_result," ExpnType_optimal=",ExpnType_optimal);
fi;

# If result and optimal are mathematical expressions,
# GradeAntiderivative[result,optimal] returns
# "F" if the result fails to integrate an expression that
# is integrable
# "C" if result involves higher level functions than necessary
# "B" if result is more than twice the size of the optimal
# antiderivative
# "A" if result can be considered optimal

#This check below actually is not needed, since I only
#call this grading only for passed integrals. i.e. I check
#for "F" before calling this. But no harm of keeping it here.
#just in case.

if not type(result,freeof('int')) then
    return "F","Result contains unresolved integral";
fi;

if ExpnType_result<=ExpnType_optimal then
    if debug then
        print("ExpnType_result<=ExpnType_optimal");
    fi;
    if is_contains_complex(result) then
        if is_contains_complex(optimal) then
            if debug then
                print("both result and optimal complex");
            fi;
            if leaf_count_result<=2*leaf_count_optimal then
                return "A"," ";
            else
                return "B",cat("Both result and optimal contain complex but leaf count of
                                convert(leaf_count_result,string)," vs. $2 ("
```

```

                                convert(leaf_count_optimal,string)," ) = ",convert(2*leaf_c
    end if
else #result contains complex but optimal is not
    if debug then
        print("result contains complex but optimal is not");
    fi;
    return "C","Result contains complex when optimal does not.";
fi;
else # result do not contain complex
    # this assumes optimal do not as well. No check is needed here.
    if debug then
        print("result do not contain complex, this assumes optimal do not as well")
    fi;
    if leaf_count_result<=2*leaf_count_optimal then
        if debug then
            print("leaf_count_result<=2*leaf_count_optimal");
        fi;
        return "A"," ";
    else
        if debug then
            print("leaf_count_result>2*leaf_count_optimal");
        fi;
        return "B",cat("Leaf count of result is larger than twice the leaf count of opt
                                convert(leaf_count_result,string)," $ vs. $2(",
                                convert(leaf_count_optimal,string)," )=",convert(2*leaf_count
    fi;
fi;
else #ExpnType(result) > ExpnType(optimal)
    if debug then
        print("ExpnType(result) > ExpnType(optimal)");
    fi;
    return "C",cat("Result contains higher order function than in optimal. Order ",
        convert(ExpnType_result,string)," vs. order ",
        convert(ExpnType_optimal,string),".");
fi;

end proc:

#
# is_contains_complex(result)
# takes expressions and returns true if it contains "I" else false
#
#Nasser 032417
is_contains_complex:= proc(expression)
    return (has(expression,I));
end proc:

```

```

# The following summarizes the type number assigned an expression
# based on the functions it involves
# 1 = rational function
# 2 = algebraic function
# 3 = elementary function
# 4 = special function
# 5 = hyperpergeometric function
# 6 = appell function
# 7 = rootsum function
# 8 = integrate function
# 9 = unknown function

ExpnType := proc(expn)
  if type(expn,'atomic') then
    1
  elif type(expn,'list') then
    apply(max,map(ExpnType,expn))
  elif type(expn,'sqrt') then
    if type(op(1,expn),'rational') then
      1
    else
      max(2,ExpnType(op(1,expn)))
    end if
  elif type(expn,'^^') then
    if type(op(2,expn),'integer') then
      ExpnType(op(1,expn))
    elif type(op(2,expn),'rational') then
      if type(op(1,expn),'rational') then
        1
      else
        max(2,ExpnType(op(1,expn)))
      end if
    else
      max(3,ExpnType(op(1,expn)),ExpnType(op(2,expn)))
    end if
  elif type(expn,'+`) or type(expn,'*`) then
    max(ExpnType(op(1,expn)),max(ExpnType(rest(expn))))
  elif ElementaryFunctionQ(op(0,expn)) then
    max(3,ExpnType(op(1,expn)))
  elif SpecialFunctionQ(op(0,expn)) then
    max(4,apply(max,map(ExpnType,[op(expn)])))
  elif HypergeometricFunctionQ(op(0,expn)) then
    max(5,apply(max,map(ExpnType,[op(expn)])))
  elif AppellFunctionQ(op(0,expn)) then
    max(6,apply(max,map(ExpnType,[op(expn)])))
  elif op(0,expn)='int' then
    max(8,apply(max,map(ExpnType,[op(expn)]))) else

```

```

9
end if
end proc:

ElementaryFunctionQ := proc(func)
  member(func, [
    exp, log, ln,
    sin, cos, tan, cot, sec, csc,
    arcsin, arccos, arctan, arccot, arcsec, arccsc,
    sinh, cosh, tanh, coth, sech, csch,
    arcsinh, arccosh, arctanh, arccoth, arcsech, arccsch])
end proc:

SpecialFunctionQ := proc(func)
  member(func, [
    erf, erfc, erfi,
    FresnelS, FresnelC,
    Ei, Ei, Li, Si, Ci, Shi, Chi,
    GAMMA, lnGAMMA, Psi, Zeta, polylog, dilog, LambertW,
    EllipticF, EllipticE, EllipticPi])
end proc:

HypergeometricFunctionQ := proc(func)
  member(func, [Hypergeometric1F1, hypergeom, HypergeometricPFQ])
end proc:

AppellFunctionQ := proc(func)
  member(func, [AppellF1])
end proc:

# u is a sum or product. rest(u) returns all but the
# first term or factor of u.
rest := proc(u) local v;
  if nops(u)=2 then
    op(2,u)
  else
    apply(op(0,u), op(2..nops(u), u))
  end if
end proc:

#leafcount(u) returns the number of nodes in u.
#Nasser 3/23/17 Replaced by build-in leafCount from package in Maple
leafcount := proc(u)
  MmaTranslator[Mma][LeafCount](u);
end proc:

```

Sympy grading function

```

#Dec 24, 2019. Nasser M. Abbasi:
#           Port of original Maple grading function by
#           Albert Rich to use with Sympy/Python
#Dec 27, 2019 Nasser. Added `RootSum`. See problem 177, Timofeev file
#           added 'exp_polar'
from sympy import *

def leaf_count(expr):
    #sympy do not have leaf count function. This is approximation
    return round(1.7*count_ops(expr))

def is_sqrt(expr):
    if isinstance(expr,Pow):
        if expr.args[1] == Rational(1,2):
            return True
        else:
            return False
    else:
        return False

def is_elementary_function(func):
    return func in [exp,log,ln,sin,cos,tan,cot,sec,csc,
                    asin,acos,atan,acot,asec,acsc,sinh,cosh,tanh,coth,sech,csch,
                    asinh,acosh,atanh,acoth,asech,acsch
                    ]

def is_special_function(func):
    return func in [ erf,erfc,erfi,
                    fresnels,fresnelc,Ei,Ei,Li,Si,Ci,Shi,Chi,
                    gamma,loggamma,digamma,zeta,polylog,LambertW,
                    elliptic_f,elliptic_e,elliptic_pi,exp_polar
                    ]

def is_hypergeometric_function(func):
    return func in [hyper]

def is_appell_function(func):
    return func in [appellf1]

def is_atom(expn):
    try:
        if expn.isAtom or isinstance(expn,int) or isinstance(expn,float):
            return True
        else:
            return False

```

```

except AttributeError as error:
    return False

def expnType(expn):
    debug=False
    if debug:
        print("expn=",expn,"type(expn)=",type(expn))

    if is_atom(expn):
        return 1
    elif isinstance(expn,list):
        return max(map(expnType, expn)) #apply(max,map(ExpnType,expn))
    elif is_sqrt(expn):
        if isinstance(expn.args[0],Rational): #type(op(1,expn),'rational')
            return 1
        else:
            return max(2,expnType(expn.args[0])) #max(2,ExpnType(op(1,expn)))
    elif isinstance(expn,Pow): #type(expn,'^')
        if isinstance(expn.args[1],Integer): #type(op(2,expn),'integer')
            return expnType(expn.args[0]) #ExpnType(op(1,expn))
        elif isinstance(expn.args[1],Rational): #type(op(2,expn),'rational')
            if isinstance(expn.args[0],Rational): #type(op(1,expn),'rational')
                return 1
            else:
                return max(2,expnType(expn.args[0])) #max(2,ExpnType(op(1,expn)))
        else:
            return max(3,expnType(expn.args[0]),expnType(expn.args[1])) #max(3,ExpnType(op(1,expn)),ExpnTy
    elif isinstance(expn,Add) or isinstance(expn,Mul): #type(expn,'+') or type(expn,'*')
        m1 = expnType(expn.args[0])
        m2 = expnType(list(expn.args[1:]))
        return max(m1,m2) #max(ExpnType(op(1,expn)),max(ExpnType(rest(expn))))
    elif is_elementary_function(expn.func): #ElementaryFunctionQ(op(0,expn))
        return max(3,expnType(expn.args[0])) #max(3,ExpnType(op(1,expn)))
    elif is_special_function(expn.func): #SpecialFunctionQ(op(0,expn))
        m1 = max(map(expnType, list(expn.args)))
        return max(4,m1) #max(4,apply(max,map(ExpnType,[op(expn)])))
    elif is_hypergeometric_function(expn.func): #HypergeometricFunctionQ(op(0,expn))
        m1 = max(map(expnType, list(expn.args)))
        return max(5,m1) #max(5,apply(max,map(ExpnType,[op(expn)])))
    elif is_appell_function(expn.func):
        m1 = max(map(expnType, list(expn.args)))
        return max(6,m1) #max(5,apply(max,map(ExpnType,[op(expn)])))
    elif isinstance(expn,RootSum):
        m1 = max(map(expnType, list(expn.args))) #Apply[Max,Append[Map[ExpnType,Apply[List,expn]],7]],
        return max(7,m1)
    elif str(expn).find("Integral") != -1:

```



```

#print("Before returning. grade=",grade, " grade_annotation=",grade_annotation)

return grade, grade_annotation

```

SageMath grading function

```

#Dec 24, 2019. Nasser: Ported original Maple grading function by
#    Albert Rich to use with Sagemath. This is used to
#    grade Fricas, Giac and Maxima results.
#Dec 24, 2019. Nasser: Added 'exp_integral_e' and 'sng', 'sin_integral'
#    'arctan2', 'floor', 'abs', 'log_integral'
#June 4, 2022 Made default grade_annotation "none" instead of "" due
#    issue later when reading the file.
#July 14, 2022. Added ellipticF. This is until they fix sagemath, then remove it.

from sage.all import *
from sage.symbolic.operators import add_vararg, mul_vararg

debug=False;

def tree_size(expr):
    r"""
    Return the tree size of this expression.
    """
    #print("Enter tree_size, expr is ",expr)

    if expr not in SR:
        # deal with lists, tuples, vectors
        return 1 + sum(tree_size(a) for a in expr)
    expr = SR(expr)
    x, aa = expr.operator(), expr.operands()
    if x is None:
        return 1
    else:
        return 1 + sum(tree_size(a) for a in aa)

def is_sqrt(expr):
    if expr.operator() == operator.pow: #isinstance(expr, Pow):
        if expr.operands()[1]==1/2: #expr.args[1] == Rational(1,2):
            if debug: print ("expr is sqrt")
            return True
        else:
            return False
    else:
        return False

```

```

def is_elementary_function(func):
    #debug=False
    m = func.name() in ['exp','log','ln',
        'sin','cos','tan','cot','sec','csc',
        'arcsin','arccos','arctan','arccot','arcsec','arccsc',
        'sinh','cosh','tanh','coth','sech','csch',
        'arcsinh','arccosh','arctanh','arccoth','arcsech','arccsch','sgn',
        'arctan2','floor','abs'
    ]
    if debug:
        if m:
            print ("func ", func , " is elementary_function")
        else:
            print ("func ", func , " is NOT elementary_function")

    return m

def is_special_function(func):
    #debug=False
    if debug:
        print ("type(func)=", type(func))

    m= func.name() in ['erf','erfc','erfi','fresnel_sin','fresnel_cos','Ei',
        'Ei','Li','Si','sin_integral','Ci','cos_integral','Shi','sinh_integral',
        'Chi','cosh_integral','gamma','log_gamma','psi,zeta',
        'polylog','lambert_w','elliptic_f','elliptic_e','ellipticF',
        'elliptic_pi','exp_integral_e','log_integral']

    if debug:
        print ("m=",m)
        if m:
            print ("func ", func , " is special_function")
        else:
            print ("func ", func , " is NOT special_function")

    return m

def is_hypergeometric_function(func):
    return func.name() in ['hypergeometric','hypergeometric_M','hypergeometric_U']

def is_appell_function(func):
    return func.name() in ['hypergeometric']    #[appellf1] can't find this in sagemath

```

```

def is_atom(expn):

    #debug=False
    if debug:
        print ("Enter is_atom, expn=",expn)

    if not hasattr(expn, 'parent'):
        return False

    #thanks to answer at https://ask.sagemath.org/question/49179/what-is-sagemath-equivalent-to-atomic-type
    try:
        if expn.parent() is SR:
            return expn.operator() is None
        if expn.parent() in (ZZ, QQ, AA, QQbar):
            return expn in expn.parent() # Should always return True
        if hasattr(expn.parent(), "base_ring") and hasattr(expn.parent(), "gens"):
            return expn in expn.parent().base_ring() or expn in expn.parent().gens()

        return False

    except AttributeError as error:
        print("Exception,AttributeError in is_atom")
        print ("caught exception" , type(error).__name__ )
        return False

def expnType(expn):

    if debug:
        print (">>>>>Enter expnType, expn=", expn)
        print (">>>>>is_atom(expn)=", is_atom(expn))

    if is_atom(expn):
        return 1
    elif type(expn)==list: #isinstance(expn,list):
        return max(map(expnType, expn)) #apply(max,map(ExpnType,expn))
    elif is_sqrt(expn):
        if type(expn.operands()[0])==Rational: #type(isinstance(expn.args[0],Rational):
            return 1
        else:
            return max(2,expnType(expn.operands()[0])) #max(2,expnType(expn.args[0]))
    elif expn.operator() == operator.pow: #isinstance(expn,Pow)
        if type(expn.operands()[1])==Integer: #isinstance(expn.args[1],Integer)
            return expnType(expn.operands()[0]) #expnType(expn.args[0])
        elif type(expn.operands()[1])==Rational: #isinstance(expn.args[1],Rational)
            if type(expn.operands()[0])==Rational: #isinstance(expn.args[0],Rational)

```

```

    return 1
  else:
    return max(2,expnType(expn.operands()[0])) #max(2,expnType(expn.args[0]))
  else:
    return max(3,expnType(expn.operands()[0]),expnType(expn.operands()[1])) #max(3,expnType(expn.
elif expn.operator() == add_vararg or expn.operator() == mul_vararg: #isinstance(expn,Add) or isinst
    m1 = expnType(expn.operands()[0]) #expnType(expn.args[0])
    m2 = expnType(expn.operands()[1:]) #expnType(list(expn.args[1:]))
    return max(m1,m2) #max(ExpnType(op(1,expn)),max(ExpnType(rest(expn))))
elif is_elementary_function(expn.operator()): #is_elementary_function(expn.func)
    return max(3,expnType(expn.operands()[0]))
elif is_special_function(expn.operator()): #is_special_function(expn.func)
    m1 = max(map(expnType, expn.operands())) #max(map(expnType, list(expn.args)))
    return max(4,m1) #max(4,m1)
elif is_hypergeometric_function(expn.operator()): #is_hypergeometric_function(expn.func)
    m1 = max(map(expnType, expn.operands())) #max(map(expnType, list(expn.args)))
    return max(5,m1) #max(5,m1)
elif is_appell_function(expn.operator()):
    m1 = max(map(expnType, expn.operands())) #max(map(expnType, list(expn.args)))
    return max(6,m1) #max(6,m1)
elif str(expn).find("Integral") != -1: #this will never happen, since it
    #is checked before calling the grading function that is passed.
    #but kept it here.
    m1 = max(map(expnType, expn.operands())) #max(map(expnType, list(expn.args)))
    return max(8,m1) #max(5,apply(max,map(ExpnType,[op(expn)])))
else:
    return 9

#main function
def grade_antiderivative(result,optimal):

    if debug:
        print ("Enter grade_antiderivative for sagemath")
        print("Enter grade_antiderivative, result=",result)
        print("Enter grade_antiderivative, optimal=",optimal)
        print("type(anti)=",type(result))
        print("type(optimal)=",type(optimal))

    leaf_count_result = tree_size(result) #leaf_count(result)
    leaf_count_optimal = tree_size(optimal) #leaf_count(optimal)

    #if debug: print ("leaf_count_result=", leaf_count_result, "leaf_count_optimal=",leaf_count_optimal)

    expnType_result = expnType(result)
    expnType_optimal = expnType(optimal)

```

```

if debug: print ("expnType_result=", expnType_result, "expnType_optimal=",expnType_optimal)

if expnType_result <= expnType_optimal:
    if result.has(I):
        if optimal.has(I): #both result and optimal complex
            if leaf_count_result <= 2*leaf_count_optimal:
                grade = "A"
                grade_annotation = "none"
            else:
                grade = "B"
                grade_annotation = "Both result and optimal contain complex but leaf count of result is larger than"
        else: #result contains complex but optimal is not
            grade = "C"
            grade_annotation = "Result contains complex when optimal does not."
    else: # result do not contain complex, this assumes optimal do not as well
        if leaf_count_result <= 2*leaf_count_optimal:
            grade = "A"
            grade_annotation = "none"
        else:
            grade = "B"
            grade_annotation = "Leaf count of result is larger than twice the leaf count of optimal. " + str(leaf_c

else:
    grade = "C"
    grade_annotation = "Result contains higher order function than in optimal. Order " + str(expnType_result)

print("Before returning. grade=",grade, " grade_annotation=",grade_annotation)

return grade, grade_annotation

```