

# \$SPAD/src/input richder12e.input

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## Abstract

$(d+e x)^m (f+g x)^n (a+b x+c x^2)^p$  There are:

- 255 integrals in this file.
- 255 supplied "optimal results".
- 137 matching answers.
- 157 cases where Axiom answer differs from Rubi
- 39 cases where Axiom supplied 2 results.
- 0 cases that Axiom failed to integrate.
- 0 that contain expressions Axiom does not recognize.

## Contents

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      *
)set break resume
)sys rm -f richder12e.output
)spool richder12e.output
)set message test on
)set message auto off
)clear all

--S 1 of 765
t0:=(A+B*x)/((d+e*x)^(7/2)*(a^2+2*a*b*x+b^2*x^2)^(5/2))
--E 1

--S 2 of 765
r0:=-2/5*(B*d-A*e)*(a+b*x)/(e*(b*d-a*e)*(d+e*x)^(5/2)*(a^2+2*a*b*x+_
b^2*x^2)^(5/2))+1/20*(8*b*B*d-13*A*b*e+5*a*B*e)*(a+b*x)/(e*(b*d-a*e)^2*_
(d+e*x)^(3/2)*(a^2+2*a*b*x+b^2*x^2)^(5/2))-11/120*(8*b*B*d-13*A*b*e+_
5*a*B*e)/((b*d-a*e)^3*(d+e*x)^(3/2)*(a^2+2*a*b*x+b^2*x^2)^(3/2))+_
33/160*e*(8*b*B*d-13*A*b*e+5*a*B*e)*(a+b*x)/((b*d-a*e)^4*(d+e*x)^(3/2)*_
(a^2+2*a*b*x+b^2*x^2)^(3/2))-231/320*e^2*(8*b*B*d-13*A*b*e+5*a*B*e)/_
((b*d-a*e)^5*(d+e*x)^(3/2)*sqrt(a^2+2*a*b*x+b^2*x^2))-77/64*e^3*(8*b*B*d-_
13*A*b*e+5*a*B*e)*(a+b*x)/((b*d-a*e)^6*(d+e*x)^(3/2)*sqrt(a^2+2*a*b*x+_
b^2*x^2))+231/64*b^(3/2)*e^3*(8*b*B*d-13*A*b*e+5*a*B*e)*(a+b*x)*_
atanh(sqrt(b)*sqrt(d+e*x)/sqrt(b*d-a*e))/((b*d-a*e)^(15/2)*sqrt(a^2+_
2*a*b*x+b^2*x^2))-231/64*b*e^3*(8*b*B*d-13*A*b*e+5*a*B*e)*(a+b*x)/_
((b*d-a*e)^7*sqrt(d+e*x)*sqrt(a^2+2*a*b*x+b^2*x^2))
--E 2

--S 3 of 765
d0:=normalize(t0-D(r0,x))
--E 3

)clear all

--S 4 of 765
t0:=(a+b*x)*(d+e*x)^m*(a^2+2*a*b*x+b^2*x^2)
--E 4

--S 5 of 765
r0:=(b*d-a*e)^3*(d+e*x)^(1+m)/(e^4*(1+m))+3*b*(b*d-a*e)^2*_
(d+e*x)^(2+m)/(e^4*(2+m))-3*b^2*(b*d-a*e)*(d+e*x)^(3+m)/(e^4*(3+m))+_
b^3*(d+e*x)^(4+m)/(e^4*(4+m))
--E 5

--S 6 of 765
d0:=normalize(t0-D(r0,x))
--E 6

)clear all

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--S 7 of 765
t0:=(a+b*x)*(d+e*x)^5*(a^2+2*a*b*x+b^2*x^2)
--E 7

--S 8 of 765
r0:=-1/6*(b*d-a*e)^3*(d+e*x)^6/e^4+3/7*b*(b*d-a*e)^2*(d+e*x)^7/e^4-
3/8*b^2*(b*d-a*e)*(d+e*x)^8/e^4+1/9*b^3*(d+e*x)^9/e^4
--E 8

--S 9 of 765
d0:=normalize(t0-D(r0,x))
--E 9

)clear all

--S 10 of 765
t0:=(a+b*x)*(d+e*x)^4*(a^2+2*a*b*x+b^2*x^2)
--E 10

--S 11 of 765
r0:=-1/5*(b*d-a*e)^3*(d+e*x)^5/e^4+1/2*b*(b*d-a*e)^2*(d+e*x)^6/e^4-
3/7*b^2*(b*d-a*e)*(d+e*x)^7/e^4+1/8*b^3*(d+e*x)^8/e^4
--E 11

--S 12 of 765
d0:=normalize(t0-D(r0,x))
--E 12

)clear all

--S 13 of 765
t0:=(a+b*x)*(d+e*x)^3*(a^2+2*a*b*x+b^2*x^2)
--E 13

--S 14 of 765
r0:=1/4*(b*d-a*e)^3*(a+b*x)^4/b^4+3/5*e*(b*d-a*e)^2*(a+b*x)^5/b^4+
1/2*e^2*(b*d-a*e)*(a+b*x)^6/b^4+1/7*e^3*(a+b*x)^7/b^4
--E 14

--S 15 of 765
d0:=normalize(t0-D(r0,x))
--E 15

)clear all

--S 16 of 765
t0:=(a+b*x)*(d+e*x)^2*(a^2+2*a*b*x+b^2*x^2)
--E 16

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--S 17 of 765
r0:=1/4*(b*d-a*e)^2*(a+b*x)^4/b^3+2/5*e*(b*d-a*e)*(a+b*x)^5/b^3+_
1/6*e^2*(a+b*x)^6/b^3
--E 17

--S 18 of 765
d0:=normalize(t0-D(r0,x))
--E 18

)clear all

--S 19 of 765
t0:=(a+b*x)*(d+e*x)*(a^2+2*a*b*x+b^2*x^2)
--E 19

--S 20 of 765
r0:=1/4*(b*d-a*e)*(a+b*x)^4/b^2+1/5*e*(a+b*x)^5/b^2
--E 20

--S 21 of 765
d0:=normalize(t0-D(r0,x))
--E 21

)clear all

--S 22 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)
--E 22

--S 23 of 765
r0:=1/4*(a+b*x)^4/b
--E 23

--S 24 of 765
d0:=normalize(t0-D(r0,x))
--E 24

)clear all

--S 25 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)/(d+e*x)
--E 25

--S 26 of 765
r0:=b*(b*d-a*e)^2*x/e^3-1/2*(b*d-a*e)*(a+b*x)^2/e^2+1/3*(a+b*x)^3/e-_
(b*d-a*e)^3*log(d+e*x)/e^4
--E 26

--S 27 of 765
d0:=normalize(t0-D(r0,x))

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--E 27

)clear all

--S 28 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)/(d+e*x)^2
--E 28

--S 29 of 765
r0:=-b^2*(2*b*d-3*a*e)*x/e^3+1/2*b^3*x^2/e^2+(b*d-a*e)^3/(e^4*(d+e*x))+_
3*b*(b*d-a*e)^2*log(d+e*x)/e^4
--E 29

--S 30 of 765
d0:=normalize(t0-D(r0,x))
--E 30

)clear all

--S 31 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)/(d+e*x)^3
--E 31

--S 32 of 765
r0:=b^3*x/e^3+1/2*(b*d-a*e)^3/(e^4*(d+e*x)^2)-3*b*(b*d-a*e)^2/(e^4*(d+e*x))-_
3*b^2*(b*d-a*e)*log(d+e*x)/e^4
--E 32

--S 33 of 765
d0:=normalize(t0-D(r0,x))
--E 33

)clear all

--S 34 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)/(d+e*x)^4
--E 34

--S 35 of 765
r0:=1/3*(b*d-a*e)^3/(e^4*(d+e*x)^3)-3/2*b*(b*d-a*e)^2/(e^4*(d+e*x)^2)+_
3*b^2*(b*d-a*e)/(e^4*(d+e*x))+b^3*log(d+e*x)/e^4
--E 35

--S 36 of 765
d0:=normalize(t0-D(r0,x))
--E 36

)clear all

--S 37 of 765

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t0:=(a+b*x)*(d+e*x)^m*(a^2+2*a*b*x+b^2*x^2)^2
--E 37

--S 38 of 765
r0:=- (b*d-a*e)^5*(d+e*x)^(1+m)/(e^6*(1+m))+5*b*(b*d-a*e)^4*(d+e*x)^(2+m)/_
(e^6*(2+m))-10*b^2*(b*d-a*e)^3*(d+e*x)^(3+m)/(e^6*(3+m))+10*b^3*_
(b*d-a*e)^2*(d+e*x)^(4+m)/(e^6*(4+m))-5*b^4*(b*d-a*e)*(d+e*x)^(5+m)/_
(e^6*(5+m))+b^5*(d+e*x)^(6+m)/(e^6*(6+m))
--E 38

--S 39 of 765
d0:=normalize(t0-D(r0,x))
--E 39

)clear all

--S 40 of 765
t0:=(a+b*x)*(d+e*x)^6*(a^2+2*a*b*x+b^2*x^2)^2
--E 40

--S 41 of 765
r0:=-1/7*(b*d-a*e)^5*(d+e*x)^7/e^6+5/8*b*(b*d-a*e)^4*(d+e*x)^8/e^6-_
10/9*b^2*(b*d-a*e)^3*(d+e*x)^9/e^6+b^3*(b*d-a*e)^2*(d+e*x)^10/e^6-_
5/11*b^4*(b*d-a*e)*(d+e*x)^11/e^6+1/12*b^5*(d+e*x)^12/e^6
--E 41

--S 42 of 765
d0:=normalize(t0-D(r0,x))
--E 42

)clear all

--S 43 of 765
t0:=(a+b*x)*(d+e*x)^5*(a^2+2*a*b*x+b^2*x^2)^2
--E 43

--S 44 of 765
r0:=1/6*(b*d-a*e)^5*(a+b*x)^6/b^6+5/7*e*(b*d-a*e)^4*(a+b*x)^7/b^6+_
5/4*e^2*(b*d-a*e)^3*(a+b*x)^8/b^6+10/9*e^3*(b*d-a*e)^2*(a+b*x)^9/b^6+_
1/2*e^4*(b*d-a*e)*(a+b*x)^10/b^6+1/11*e^5*(a+b*x)^11/b^6
--E 44

--S 45 of 765
d0:=normalize(t0-D(r0,x))
--E 45

)clear all

--S 46 of 765
t0:=(a+b*x)*(d+e*x)^4*(a^2+2*a*b*x+b^2*x^2)^2

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--E 46

--S 47 of 765
r0:=1/6*(b*d-a*e)^4*(a+b*x)^6/b^5+4/7*e*(b*d-a*e)^3*(a+b*x)^7/b^5+3/4*e^2*_
(b*d-a*e)^2*(a+b*x)^8/b^5+4/9*e^3*(b*d-a*e)*(a+b*x)^9/b^5+1/10*e^4*_
(a+b*x)^10/b^5
--E 47

--S 48 of 765
d0:=normalize(t0-D(r0,x))
--E 48

)clear all

--S 49 of 765
t0:=(a+b*x)*(d+e*x)^3*(a^2+2*a*b*x+b^2*x^2)^2
--E 49

--S 50 of 765
r0:=1/6*(b*d-a*e)^3*(a+b*x)^6/b^4+3/7*e*(b*d-a*e)^2*(a+b*x)^7/b^4+_
3/8*e^2*(b*d-a*e)*(a+b*x)^8/b^4+1/9*e^3*(a+b*x)^9/b^4
--E 50

--S 51 of 765
d0:=normalize(t0-D(r0,x))
--E 51

)clear all

--S 52 of 765
t0:=(a+b*x)*(d+e*x)^2*(a^2+2*a*b*x+b^2*x^2)^2
--E 52

--S 53 of 765
r0:=1/6*(b*d-a*e)^2*(a+b*x)^6/b^3+2/7*e*(b*d-a*e)*(a+b*x)^7/b^3+_
1/8*e^2*(a+b*x)^8/b^3
--E 53

--S 54 of 765
d0:=normalize(t0-D(r0,x))
--E 54

)clear all

--S 55 of 765
t0:=(a+b*x)*(d+e*x)*(a^2+2*a*b*x+b^2*x^2)^2
--E 55

--S 56 of 765
r0:=1/6*(b*d-a*e)*(a+b*x)^6/b^2+1/7*e*(a+b*x)^7/b^2

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--E 56

--S 57 of 765
d0:=normalize(t0-D(r0,x))
--E 57

)clear all

--S 58 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^2
--E 58

--S 59 of 765
r0:=1/6*(a+b*x)^6/b
--E 59

--S 60 of 765
d0:=normalize(t0-D(r0,x))
--E 60

)clear all

--S 61 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^2/(d+e*x)
--E 61

--S 62 of 765
r0:=b*(b*d-a*e)^4*x/e^5-1/2*(b*d-a*e)^3*(a+b*x)^2/e^4+1/3*(b*d-a*e)^2*_
(a+b*x)^3/e^3-1/4*(b*d-a*e)*(a+b*x)^4/e^2+1/5*(a+b*x)^5/e-(b*d-a*e)^5*_
log(d+e*x)/e^6
--E 62

--S 63 of 765
d0:=normalize(t0-D(r0,x))
--E 63

)clear all

--S 64 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^2/(d+e*x)^2
--E 64

--S 65 of 765
r0:=-10*b^2*(b*d-a*e)^3*x/e^5+(b*d-a*e)^5/(e^6*(d+e*x))+5*b^3*(b*d-a*e)^2*_
(d+e*x)^2/e^6-5/3*b^4*(b*d-a*e)*(d+e*x)^3/e^6+1/4*b^5*(d+e*x)^4/e^6+_
5*b*(b*d-a*e)^4*log(d+e*x)/e^6
--E 65

--S 66 of 765
d0:=normalize(t0-D(r0,x))

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--E 66

)clear all

--S 67 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^2/(d+e*x)^3
--E 67

--S 68 of 765
r0:=10*b^3*(b*d-a*e)^2*x/e^5+1/2*(b*d-a*e)^5/(e^6*(d+e*x)^2)-
5*b*(b*d-a*e)^4/(e^6*(d+e*x))-5/2*b^4*(b*d-a*e)*(d+e*x)^2/e^6+
1/3*b^5*(d+e*x)^3/e^6-10*b^2*(b*d-a*e)^3*log(d+e*x)/e^6
--E 68

--S 69 of 765
d0:=normalize(t0-D(r0,x))
--E 69

)clear all

--S 70 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^2/(d+e*x)^4
--E 70

--S 71 of 765
r0:=-b^4*(4*b*d-5*a*e)*x/e^5+1/2*b^5*x^2/e^4+1/3*(b*d-a*e)^5/(e^6*(d+e*x)^3)-
5/2*b*(b*d-a*e)^4/(e^6*(d+e*x)^2)+10*b^2*(b*d-a*e)^3/(e^6*(d+e*x))+
10*b^3*(b*d-a*e)^2*log(d+e*x)/e^6
--E 71

--S 72 of 765
d0:=normalize(t0-D(r0,x))
--E 72

)clear all

--S 73 of 765
t0:=(a+b*x)*(d+e*x)^m*(a^2+2*a*b*x+b^2*x^2)^3
--E 73

--S 74 of 765
r0:=- (b*d-a*e)^7*(d+e*x)^(1+m)/(e^8*(1+m))+7*b*(b*d-a*e)^6*(d+e*x)^(2+m)/
(e^8*(2+m))-21*b^2*(b*d-a*e)^5*(d+e*x)^(3+m)/(e^8*(3+m))+35*b^3*
(b*d-a*e)^4*(d+e*x)^(4+m)/(e^8*(4+m))-35*b^4*(b*d-a*e)^3*(d+e*x)^(5+m)/
(e^8*(5+m))+21*b^5*(b*d-a*e)^2*(d+e*x)^(6+m)/(e^8*(6+m))-7*b^6*(b*d-
a*e)*(d+e*x)^(7+m)/(e^8*(7+m))+b^7*(d+e*x)^(8+m)/(e^8*(8+m))
--E 74

--S 75 of 765
d0:=normalize(t0-D(r0,x))

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--E 75

)clear all

--S 76 of 765
t0:=(a+b*x)*(d+e*x)^6*(a^2+2*a*b*x+b^2*x^2)^3
--E 76

--S 77 of 765
r0:=1/8*(b*d-a*e)^6*(a+b*x)^8/b^7+2/3*e*(b*d-a*e)^5*(a+b*x)^9/b^7+_
3/2*e^2*(b*d-a*e)^4*(a+b*x)^10/b^7+20/11*e^3*(b*d-a*e)^3*(a+b*x)^11/b^7+_
5/4*e^4*(b*d-a*e)^2*(a+b*x)^12/b^7+6/13*e^5*(b*d-a*e)*(a+b*x)^13/b^7+_
1/14*e^6*(a+b*x)^14/b^7
--E 77

--S 78 of 765
d0:=normalize(t0-D(r0,x))
--E 78

)clear all

--S 79 of 765
t0:=(a+b*x)*(d+e*x)^5*(a^2+2*a*b*x+b^2*x^2)^3
--E 79

--S 80 of 765
r0:=1/8*(b*d-a*e)^5*(a+b*x)^8/b^6+5/9*e*(b*d-a*e)^4*(a+b*x)^9/b^6+e^2*_
(b*d-a*e)^3*(a+b*x)^10/b^6+10/11*e^3*(b*d-a*e)^2*(a+b*x)^11/b^6+_
5/12*e^4*(b*d-a*e)*(a+b*x)^12/b^6+1/13*e^5*(a+b*x)^13/b^6
--E 80

--S 81 of 765
d0:=normalize(t0-D(r0,x))
--E 81

)clear all

--S 82 of 765
t0:=(a+b*x)*(d+e*x)^4*(a^2+2*a*b*x+b^2*x^2)^3
--E 82

--S 83 of 765
r0:=1/8*(b*d-a*e)^4*(a+b*x)^8/b^5+4/9*e*(b*d-a*e)^3*(a+b*x)^9/b^5+3/5*e^2*_
(b*d-a*e)^2*(a+b*x)^10/b^5+4/11*e^3*(b*d-a*e)*(a+b*x)^11/b^5+1/12*e^4*_
(a+b*x)^12/b^5
--E 83

--S 84 of 765
d0:=normalize(t0-D(r0,x))
--E 84

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```

)clear all

--S 85 of 765
t0:=(a+b*x)*(d+e*x)^3*(a^2+2*a*b*x+b^2*x^2)^3
--E 85

--S 86 of 765
r0:=1/8*(b*d-a*e)^3*(a+b*x)^8/b^4+1/3*e*(b*d-a*e)^2*(a+b*x)^9/b^4+3/10*e^2*_
(b*d-a*e)*(a+b*x)^10/b^4+1/11*e^3*(a+b*x)^11/b^4
--E 86

--S 87 of 765
d0:=normalize(t0-D(r0,x))
--E 87

)clear all

--S 88 of 765
t0:=(a+b*x)*(d+e*x)^2*(a^2+2*a*b*x+b^2*x^2)^3
--E 88

--S 89 of 765
r0:=1/8*(b*d-a*e)^2*(a+b*x)^8/b^3+2/9*e*(b*d-a*e)*(a+b*x)^9/b^3+1/10*e^2*_
(a+b*x)^10/b^3
--E 89

--S 90 of 765
d0:=normalize(t0-D(r0,x))
--E 90

)clear all

--S 91 of 765
t0:=(a+b*x)*(d+e*x)*(a^2+2*a*b*x+b^2*x^2)^3
--E 91

--S 92 of 765
r0:=1/8*(b*d-a*e)*(a+b*x)^8/b^2+1/9*e*(a+b*x)^9/b^2
--E 92

--S 93 of 765
d0:=normalize(t0-D(r0,x))
--E 93

)clear all

--S 94 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^3
--E 94

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--S 95 of 765
r0:=1/8*(a+b*x)^8/b
--E 95

--S 96 of 765
d0:=normalize(t0-D(r0,x))
--E 96

)clear all

--S 97 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^3/(d+e*x)
--E 97

--S 98 of 765
r0:=b*(b*d-a*e)^6*x/e^7-1/2*(b*d-a*e)^5*(a+b*x)^2/e^6+1/3*(b*d-a*e)^4*_
(a+b*x)^3/e^5-1/4*(b*d-a*e)^3*(a+b*x)^4/e^4+1/5*(b*d-a*e)^2*(a+b*x)^5/e^3-_
1/6*(b*d-a*e)*(a+b*x)^6/e^2+1/7*(a+b*x)^7/e-(b*d-a*e)^7*log(d+e*x)/e^8
--E 98

--S 99 of 765
d0:=normalize(t0-D(r0,x))
--E 99

)clear all

--S 100 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^3/(d+e*x)^2
--E 100

--S 101 of 765
r0:=-21*b^2*(b*d-a*e)^5*x/e^7+(b*d-a*e)^7/(e^8*(d+e*x))+35/2*b^3*_
(b*d-a*e)^4*(d+e*x)^2/e^8-35/3*b^4*(b*d-a*e)^3*(d+e*x)^3/e^8+_
21/4*b^5*(b*d-a*e)^2*(d+e*x)^4/e^8-7/5*b^6*(b*d-a*e)*(d+e*x)^5/e^8+_
1/6*b^7*(d+e*x)^6/e^8+7*b*(b*d-a*e)^6*log(d+e*x)/e^8
--E 101

--S 102 of 765
d0:=normalize(t0-D(r0,x))
--E 102

)clear all

--S 103 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^3/(d+e*x)^3
--E 103

--S 104 of 765
r0:=35*b^3*(b*d-a*e)^4*x/e^7+1/2*(b*d-a*e)^7/(e^8*(d+e*x)^2)-_

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7*b*(b*d-a*e)^6/(e^8*(d+e*x))-35/2*b^4*(b*d-a*e)^3*(d+e*x)^2/e^8+_
7*b^5*(b*d-a*e)^2*(d+e*x)^3/e^8-7/4*b^6*(b*d-a*e)*(d+e*x)^4/e^8+_
1/5*b^7*(d+e*x)^5/e^8-21*b^2*(b*d-a*e)^5*log(d+e*x)/e^8
--E 104

--S 105 of 765
d0:=normalize(t0-D(r0,x))
--E 105

)clear all

--S 106 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^3/(d+e*x)^4
--E 106

--S 107 of 765
r0:=-35*b^4*(b*d-a*e)^3*x/e^7+1/3*(b*d-a*e)^7/(e^8*(d+e*x)^3)-_
7/2*b*(b*d-a*e)^6/(e^8*(d+e*x)^2)+21*b^2*(b*d-a*e)^5/(e^8*(d+e*x))+_
21/2*b^5*(b*d-a*e)^2*(d+e*x)^2/e^8-7/3*b^6*(b*d-a*e)*(d+e*x)^3/e^8+_
1/4*b^7*(d+e*x)^4/e^8+35*b^3*(b*d-a*e)^4*log(d+e*x)/e^8
--E 107

--S 108 of 765
d0:=normalize(t0-D(r0,x))
--E 108

)clear all

--S 109 of 765
t0:=(a+b*x)*(d+e*x)^4/(a^2+2*a*b*x+b^2*x^2)
--E 109

--S 110 of 765
r0:=e*(b*d-a*e)^3*x/b^4+1/2*(b*d-a*e)^2*(d+e*x)^2/b^3+1/3*(b*d-a*e)*_
(d+e*x)^3/b^2+1/4*(d+e*x)^4/b+(b*d-a*e)^4*log(a+b*x)/b^5
--E 110

--S 111 of 765
d0:=normalize(t0-D(r0,x))
--E 111

)clear all

--S 112 of 765
t0:=(a+b*x)*(d+e*x)^3/(a^2+2*a*b*x+b^2*x^2)
--E 112

--S 113 of 765
r0:=e*(b*d-a*e)^2*x/b^3+1/2*(b*d-a*e)*(d+e*x)^2/b^2+1/3*(d+e*x)^3/b+_
(b*d-a*e)^3*log(a+b*x)/b^4

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--E 113

--S 114 of 765
d0:=normalize(t0-D(r0,x))
--E 114

)clear all

--S 115 of 765
t0:=(a+b*x)*(d+e*x)^2/(a^2+2*a*b*x+b^2*x^2)
--E 115

--S 116 of 765
r0:=e*(b*d-a*e)*x/b^2+1/2*(d+e*x)^2/b+(b*d-a*e)^2*log(a+b*x)/b^3
--E 116

--S 117 of 765
d0:=normalize(t0-D(r0,x))
--E 117

)clear all

--S 118 of 765
t0:=(a+b*x)*(d+e*x)/(a^2+2*a*b*x+b^2*x^2)
--E 118

--S 119 of 765
r0:=e*x/b+(b*d-a*e)*log(a+b*x)/b^2
--E 119

--S 120 of 765
d0:=normalize(t0-D(r0,x))
--E 120

)clear all

--S 121 of 765
t0:=(a+b*x)/(a^2+2*a*b*x+b^2*x^2)
--E 121

--S 122 of 765
r0:=log(a+b*x)/b
--E 122

--S 123 of 765
d0:=normalize(t0-D(r0,x))
--E 123

)clear all

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--S 124 of 765
t0:=(a+b*x)/((d+e*x)*(a^2+2*a*b*x+b^2*x^2))
--E 124

--S 125 of 765
r0:=log(a+b*x)/(b*d-a*e)-log(d+e*x)/(b*d-a*e)
--E 125

--S 126 of 765
d0:=normalize(t0-D(r0,x))
--E 126

)clear all

--S 127 of 765
t0:=(a+b*x)/((d+e*x)^2*(a^2+2*a*b*x+b^2*x^2))
--E 127

--S 128 of 765
r0:=1/((b*d-a*e)*(d+e*x))+b*log(a+b*x)/(b*d-a*e)^2-b*log(d+e*x)/(b*d-a*e)^2
--E 128

--S 129 of 765
d0:=normalize(t0-D(r0,x))
--E 129

)clear all

--S 130 of 765
t0:=(a+b*x)/((d+e*x)^3*(a^2+2*a*b*x+b^2*x^2))
--E 130

--S 131 of 765
r0:=1/2/((b*d-a*e)*(d+e*x)^2)+b/((b*d-a*e)^2*(d+e*x))+b^2*log(a+b*x)/_
(b*d-a*e)^3-b^2*log(d+e*x)/(b*d-a*e)^3
--E 131

--S 132 of 765
d0:=normalize(t0-D(r0,x))
--E 132

)clear all

--S 133 of 765
t0:=(a+b*x)/((d+e*x)^4*(a^2+2*a*b*x+b^2*x^2))
--E 133

--S 134 of 765
r0:=1/3/((b*d-a*e)*(d+e*x)^3)+1/2*b/((b*d-a*e)^2*(d+e*x)^2)+_
b^2/((b*d-a*e)^3*(d+e*x))+b^3*log(a+b*x)/(b*d-a*e)^4-

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      b^3*log(d+e*x)/(b*d-a*e)^4
--E 134

--S 135 of 765
d0:=normalize(t0-D(r0,x))
--E 135

)clear all

--S 136 of 765
t0:=(a+b*x)*(d+e*x)^4/(a^2+2*a*b*x+b^2*x^2)^2
--E 136

--S 137 of 765
r0:=e^3*(4*b*d-3*a*e)*x/b^4+1/2*e^4*x^2/b^3-1/2*(b*d-a*e)^4/(b^5*(a+b*x)^2)-
4*e*(b*d-a*e)^3/(b^5*(a+b*x))+6*e^2*(b*d-a*e)^2*log(a+b*x)/b^5
--E 137

--S 138 of 765
d0:=normalize(t0-D(r0,x))
--E 138

)clear all

--S 139 of 765
t0:=(a+b*x)*(d+e*x)^3/(a^2+2*a*b*x+b^2*x^2)^2
--E 139

--S 140 of 765
r0:=e^3*x/b^3-1/2*(b*d-a*e)^3/(b^4*(a+b*x)^2)-3*e*(b*d-a*e)^2/(b^4*(a+b*x))+
3*e^2*(b*d-a*e)*log(a+b*x)/b^4
--E 140

--S 141 of 765
d0:=normalize(t0-D(r0,x))
--E 141

)clear all

--S 142 of 765
t0:=(a+b*x)*(d+e*x)^2/(a^2+2*a*b*x+b^2*x^2)^2
--E 142

--S 143 of 765
r0:=-1/2*(b*d-a*e)^2/(b^3*(a+b*x)^2)-2*e*(b*d-a*e)/(b^3*(a+b*x))+
e^2*log(a+b*x)/b^3
--E 143

--S 144 of 765
d0:=normalize(t0-D(r0,x))

```

```

--E 144

)clear all

--S 145 of 765
t0:=(a+b*x)*(d+e*x)/(a^2+2*a*b*x+b^2*x^2)^2
--E 145

--S 146 of 765
r0:=-1/2*(d+e*x)^2/((b*d-a*e)*(a+b*x)^2)
--E 146

--S 147 of 765
d0:=normalize(t0-D(r0,x))
--E 147

)clear all

--S 148 of 765
t0:=(a+b*x)/(a^2+2*a*b*x+b^2*x^2)^2
--E 148

--S 149 of 765
r0:=(-1/2)/(b*(a+b*x)^2)
--E 149

--S 150 of 765
d0:=normalize(t0-D(r0,x))
--E 150

)clear all

--S 151 of 765
t0:=(a+b*x)/((d+e*x)*(a^2+2*a*b*x+b^2*x^2)^2)
--E 151

--S 152 of 765
r0:=(-1/2)/((b*d-a*e)*(a+b*x)^2)+e/((b*d-a*e)^2*(a+b*x))+_
e^2*log(a+b*x)/(b*d-a*e)^3-e^2*log(d+e*x)/(b*d-a*e)^3
--E 152

--S 153 of 765
d0:=normalize(t0-D(r0,x))
--E 153

)clear all

--S 154 of 765
t0:=(a+b*x)/((d+e*x)^2*(a^2+2*a*b*x+b^2*x^2)^2)
--E 154

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--S 155 of 765
r0:=-1/2*b/((b*d-a*e)^2*(a+b*x)^2)+2*b*e/((b*d-a*e)^3*(a+b*x))+_
e^2/((b*d-a*e)^3*(d+e*x))+3*b*e^2*log(a+b*x)/(b*d-a*e)^4-_
3*b*e^2*log(d+e*x)/(b*d-a*e)^4
--E 155

--S 156 of 765
d0:=normalize(t0-D(r0,x))
--E 156

)clear all

--S 157 of 765
t0:=(a+b*x)/((d+e*x)^3*(a^2+2*a*b*x+b^2*x^2)^2)
--E 157

--S 158 of 765
r0:=-1/2*b^2/((b*d-a*e)^3*(a+b*x)^2)+3*b^2*e/((b*d-a*e)^4*(a+b*x))+_
1/2*e^2/((b*d-a*e)^3*(d+e*x)^2)+3*b*e^2/((b*d-a*e)^4*(d+e*x))+_
6*b^2*e^2*log(a+b*x)/(b*d-a*e)^5-6*b^2*e^2*log(d+e*x)/(b*d-a*e)^5
--E 158

--S 159 of 765
d0:=normalize(t0-D(r0,x))
--E 159

)clear all

--S 160 of 765
t0:=(a+b*x)/((d+e*x)^4*(a^2+2*a*b*x+b^2*x^2)^2)
--E 160

--S 161 of 765
r0:=-1/2*b^3/((b*d-a*e)^4*(a+b*x)^2)+4*b^3*e/((b*d-a*e)^5*(a+b*x))+_
1/3*e^2/((b*d-a*e)^3*(d+e*x)^3)+3/2*b*e^2/((b*d-a*e)^4*(d+e*x)^2)+_
6*b^2*e^2/((b*d-a*e)^5*(d+e*x))+10*b^3*e^2*log(a+b*x)/(b*d-a*e)^6-_
10*b^3*e^2*log(d+e*x)/(b*d-a*e)^6
--E 161

--S 162 of 765
d0:=normalize(t0-D(r0,x))
--E 162

)clear all

--S 163 of 765
t0:=(a+b*x)*(d+e*x)^4/(a^2+2*a*b*x+b^2*x^2)^3
--E 163

```

```

--S 164 of 765
r0:=-1/4*(b*d-a*e)^4/(b^5*(a+b*x)^4)-4/3*e*(b*d-a*e)^3/(b^5*(a+b*x)^3)-
3*e^2*(b*d-a*e)^2/(b^5*(a+b*x)^2)-4*e^3*(b*d-a*e)/(b^5*(a+b*x))+
e^4*log(a+b*x)/b^5
--E 164

--S 165 of 765
d0:=normalize(t0-D(r0,x))
--E 165

)clear all

--S 166 of 765
t0:=(a+b*x)*(d+e*x)^3/(a^2+2*a*b*x+b^2*x^2)^3
--E 166

--S 167 of 765
r0:=-1/4*(d+e*x)^4/((b*d-a*e)*(a+b*x)^4)
--E 167

--S 168 of 765
d0:=normalize(t0-D(r0,x))
--E 168

)clear all

--S 169 of 765
t0:=(a+b*x)*(d+e*x)^2/(a^2+2*a*b*x+b^2*x^2)^3
--E 169

--S 170 of 765
r0:=-1/4*(b*d-a*e)^2/(b^3*(a+b*x)^4)-2/3*e*(b*d-a*e)/(b^3*(a+b*x)^3)-
1/2*e^2/(b^3*(a+b*x)^2)
--E 170

--S 171 of 765
d0:=normalize(t0-D(r0,x))
--E 171

)clear all

--S 172 of 765
t0:=(a+b*x)*(d+e*x)/(a^2+2*a*b*x+b^2*x^2)^3
--E 172

--S 173 of 765
r0:=1/4*(-b*d+a*e)/(b^2*(a+b*x)^4)-1/3*e/(b^2*(a+b*x)^3)
--E 173

--S 174 of 765

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d0:=normalize(t0-D(r0,x))
--E 174

)clear all

--S 175 of 765
t0:=(a+b*x)/(a^2+2*a*b*x+b^2*x^2)^3
--E 175

--S 176 of 765
r0:=(-1/4)/(b*(a+b*x)^4)
--E 176

--S 177 of 765
d0:=normalize(t0-D(r0,x))
--E 177

)clear all

--S 178 of 765
t0:=(a+b*x)/((d+e*x)*(a^2+2*a*b*x+b^2*x^2)^3)
--E 178

--S 179 of 765
r0:=(-1/4)/((b*d-a*e)*(a+b*x)^4)+1/3*e/((b*d-a*e)^2*(a+b*x)^3)-
1/2*e^2/((b*d-a*e)^3*(a+b*x)^2)+e^3/((b*d-a*e)^4*(a+b*x))+
e^4*log(a+b*x)/(b*d-a*e)^5-e^4*log(d+e*x)/(b*d-a*e)^5
--E 179

--S 180 of 765
d0:=normalize(t0-D(r0,x))
--E 180

)clear all

--S 181 of 765
t0:=(a+b*x)/((d+e*x)^2*(a^2+2*a*b*x+b^2*x^2)^3)
--E 181

--S 182 of 765
r0:=-1/4*b/((b*d-a*e)^2*(a+b*x)^4)+2/3*b*e/((b*d-a*e)^3*(a+b*x)^3)-
3/2*b*e^2/((b*d-a*e)^4*(a+b*x)^2)+4*b*e^3/((b*d-a*e)^5*(a+b*x))+
e^4/((b*d-a*e)^5*(d+e*x))+5*b*e^4*log(a+b*x)/(b*d-a*e)^6-
5*b*e^4*log(d+e*x)/(b*d-a*e)^6
--E 182

--S 183 of 765
d0:=normalize(t0-D(r0,x))
--E 183

```

```

)clear all

--S 184 of 765
t0:=(a+b*x)/((d+e*x)^3*(a^2+2*a*b*x+b^2*x^2)^3)
--E 184

--S 185 of 765
r0:=-1/4*b^2/((b*d-a*e)^3*(a+b*x)^4)+b^2*e/((b*d-a*e)^4*(a+b*x)^3)-
3*b^2*e^2/((b*d-a*e)^5*(a+b*x)^2)+10*b^2*e^3/((b*d-a*e)^6*(a+b*x))+
1/2*e^4/((b*d-a*e)^5*(d+e*x)^2)+5*b*e^4/((b*d-a*e)^6*(d+e*x))+
15*b^2*e^4*log(a+b*x)/(b*d-a*e)^7-15*b^2*e^4*log(d+e*x)/(b*d-a*e)^7
--E 185

--S 186 of 765
d0:=normalize(t0-D(r0,x))
--E 186

)clear all

--S 187 of 765
t0:=(a+b*x)/((d+e*x)^4*(a^2+2*a*b*x+b^2*x^2)^3)
--E 187

--S 188 of 765
r0:=-1/4*b^3/((b*d-a*e)^4*(a+b*x)^4)+4/3*b^3*e/((b*d-a*e)^5*(a+b*x)^3)-
5*b^3*e^2/((b*d-a*e)^6*(a+b*x)^2)+20*b^3*e^3/((b*d-a*e)^7*(a+b*x))+
1/3*e^4/((b*d-a*e)^5*(d+e*x)^3)+5/2*b*e^4/((b*d-a*e)^6*(d+e*x)^2)+
15*b^2*e^4/((b*d-a*e)^7*(d+e*x))+35*b^3*e^4*log(a+b*x)/(b*d-a*e)^8-
35*b^3*e^4*log(d+e*x)/(b*d-a*e)^8
--E 188

--S 189 of 765
d0:=normalize(t0-D(r0,x))
--E 189

)clear all

--S 190 of 765
t0:=(a+b*x)*(d+e*x)^m*sqrt(a^2+2*a*b*x+b^2*x^2)
--E 190

--S 191 of 765
r0:=-2*(b*d-a*e)*(d+e*x)^(1+m)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^2*(2+m)*(3+m))+
2*(b*d-a*e)^2*(d+e*x)^(1+m)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^3*(1+m)*
(2+m)*(3+m)*(a+b*x))+(a+b*x)*(d+e*x)^(1+m)*sqrt(a^2+2*a*b*x+b^2*x^2)/
(e*(3+m))
--E 191

--S 192 of 765
d0:=normalize(t0-D(r0,x))

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--E 192

)clear all

--S 193 of 765
t0:=(a+b*x)*(d+e*x)^5*sqrt(a^2+2*a*b*x+b^2*x^2)
--E 193

--S 194 of 765
r0:=-1/28*(b*d-a*e)*(d+e*x)^6*sqrt(a^2+2*a*b*x+b^2*x^2)/e^2+_
1/168*(b*d-a*e)^2*(d+e*x)^6*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^3*(a+b*x))+_
1/8*(a+b*x)*(d+e*x)^6*sqrt(a^2+2*a*b*x+b^2*x^2)/e
--E 194

--S 195 of 765
d0:=normalize(t0-D(r0,x))
--E 195

)clear all

--S 196 of 765
t0:=(a+b*x)*(d+e*x)^4*sqrt(a^2+2*a*b*x+b^2*x^2)
--E 196

--S 197 of 765
r0:=-1/21*(b*d-a*e)*(d+e*x)^5*sqrt(a^2+2*a*b*x+b^2*x^2)/e^2+_
1/105*(b*d-a*e)^2*(d+e*x)^5*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^3*(a+b*x))+_
1/7*(a+b*x)*(d+e*x)^5*sqrt(a^2+2*a*b*x+b^2*x^2)/e
--E 197

--S 198 of 765
d0:=normalize(t0-D(r0,x))
--E 198

)clear all

--S 199 of 765
t0:=(a+b*x)*(d+e*x)^3*sqrt(a^2+2*a*b*x+b^2*x^2)
--E 199

--S 200 of 765
r0:=-1/15*(b*d-a*e)*(d+e*x)^4*sqrt(a^2+2*a*b*x+b^2*x^2)/e^2+1/60*(b*d-_
a*e)^2*(d+e*x)^4*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^3*(a+b*x))+1/6*(a+b*x)*_
(d+e*x)^4*sqrt(a^2+2*a*b*x+b^2*x^2)/e
--E 200

--S 201 of 765
d0:=normalize(t0-D(r0,x))
--E 201

```

```

)clear all

--S 202 of 765
t0:=(a+b*x)*(d+e*x)^2*sqrt(a^2+2*a*b*x+b^2*x^2)
--E 202

--S 203 of 765
r0:=1/30*(b*d-a*e)^2*(a^2+2*a*b*x+b^2*x^2)^(3/2)/b^3+1/10*(b*d-a*e)*_
(d+e*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/b^2+1/5*(d+e*x)^2*(a^2+2*a*b*x+_
b^2*x^2)^(3/2)/b
--E 203

--S 204 of 765
d0:=normalize(t0-D(r0,x))
--E 204

)clear all

--S 205 of 765
t0:=(a+b*x)*(d+e*x)*sqrt(a^2+2*a*b*x+b^2*x^2)
--E 205

--S 206 of 765
r0:=1/12*(b*d-a*e)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/b^2+1/4*(d+e*x)*_
(a^2+2*a*b*x+b^2*x^2)^(3/2)/b
--E 206

--S 207 of 765
d0:=normalize(t0-D(r0,x))
--E 207

)clear all

--S 208 of 765
t0:=(a+b*x)*sqrt(a^2+2*a*b*x+b^2*x^2)
--E 208

--S 209 of 765
r0:=1/3*(a^2+2*a*b*x+b^2*x^2)^(3/2)/b
--E 209

--S 210 of 765
d0:=normalize(t0-D(r0,x))
--E 210

)clear all

--S 211 of 765
t0:=(a+b*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/(d+e*x)
--E 211

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--S 212 of 765
r0:=(b*d-a*e)*sqrt(a^2+2*a*b*x+b^2*x^2)/e^2+1/2*(a+b*x)*_
sqrt(a^2+2*a*b*x+b^2*x^2)/e+(b*d-a*e)^2*log(d+e*x)*_
sqrt(a^2+2*a*b*x+b^2*x^2)/(e^3*(a+b*x))
--E 212

--S 213 of 765
d0:=normalize(t0-D(r0,x))
--E 213

)clear all

--S 214 of 765
t0:=(a+b*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/(d+e*x)^2
--E 214

--S 215 of 765
r0:=2*b*sqrt(a^2+2*a*b*x+b^2*x^2)/e^2-(a+b*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/_
(e*(d+e*x))-2*b*(b*d-a*e)*log(d+e*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/_
(e^3*(a+b*x))
--E 215

--S 216 of 765
d0:=normalize(t0-D(r0,x))
--E 216

)clear all

--S 217 of 765
t0:=(a+b*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/(d+e*x)^3
--E 217

--S 218 of 765
r0:=-1/2*(a+b*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e*(d+e*x)^2)+b*(b*d-a*e)*_
sqrt(a^2+2*a*b*x+b^2*x^2)/(e^3*(a+b*x))*(d+e*x)+b^2*log(d+e*x)*_
sqrt(a^2+2*a*b*x+b^2*x^2)/(e^3*(a+b*x))
--E 218

--S 219 of 765
d0:=normalize(t0-D(r0,x))
--E 219

)clear all

--S 220 of 765
t0:=(a+b*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/(d+e*x)^4
--E 220

--S 221 of 765

```

```

r0:=1/3*(a^2+2*a*b*x+b^2*x^2)^(3/2)/((b*d-a*e)*(d+e*x)^3)
--E 221

--S 222 of 765
d0:=normalize(t0-D(r0,x))
--E 222

)clear all

--S 223 of 765
t0:=(a+b*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/(d+e*x)^5
--E 223

--S 224 of 765
r0:=1/4*(a^2+2*a*b*x+b^2*x^2)^(3/2)/((b*d-a*e)*(d+e*x)^4)+_
1/12*b*(a^2+2*a*b*x+b^2*x^2)^(3/2)/((b*d-a*e)^2*(d+e*x)^3)
--E 224

--S 225 of 765
d0:=normalize(t0-D(r0,x))
--E 225

)clear all

--S 226 of 765
t0:=(a+b*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/(d+e*x)^6
--E 226

--S 227 of 765
r0:=1/5*(a^2+2*a*b*x+b^2*x^2)^(3/2)/((b*d-a*e)*(d+e*x)^5)+_
1/10*b*(a^2+2*a*b*x+b^2*x^2)^(3/2)/((b*d-a*e)^2*(d+e*x)^4)+_
1/30*b^2*(a^2+2*a*b*x+b^2*x^2)^(3/2)/((b*d-a*e)^3*(d+e*x)^3)
--E 227

--S 228 of 765
d0:=normalize(t0-D(r0,x))
--E 228

)clear all

--S 229 of 765
t0:=(a+b*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/(d+e*x)^7
--E 229

--S 230 of 765
r0:=-1/6*(a+b*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e*(d+e*x)^6)-_
1/12*b*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^2*(d+e*x)^5)-1/60*b*(b*d-a*e)*_
sqrt(a^2+2*a*b*x+b^2*x^2)/(e^3*(a+b*x)*(d+e*x)^5)
--E 230

```

```

--S 231 of 765
d0:=normalize(t0-D(r0,x))
--E 231

)clear all

--S 232 of 765
t0:=(a+b*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/(d+e*x)^8
--E 232

--S 233 of 765
r0:=-1/7*(a+b*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e*(d+e*x)^7)-
2/35*b*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^2*(d+e*x)^6)-1/105*b*(b*d-a*e)*
sqrt(a^2+2*a*b*x+b^2*x^2)/(e^3*(a+b*x)*(d+e*x)^6)
--E 233

--S 234 of 765
d0:=normalize(t0-D(r0,x))
--E 234

)clear all

--S 235 of 765
t0:=(a+b*x)*(d+e*x)^m*(a^2+2*a*b*x+b^2*x^2)^(3/2)
--E 235

--S 236 of 765
r0:=-4*(b*d-a*e)*(d+e*x)^(1+m)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e^2*(4+m)*(5+m))+
(a+b*x)*(d+e*x)^(1+m)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e*(5+m))-
24*(b*d-a*e)^3*(d+e*x)^(1+m)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^4*(2+m)*
(3+m)*(4+m)*(5+m))+24*(b*d-a*e)^4*(d+e*x)^(1+m)*sqrt(a^2+2*a*b*x+
b^2*x^2)/(e^5*(1+m)*(2+m)*(3+m)*(4+m)*(5+m)*(a+b*x))+12*(b*d-a*e)^2*
(a+b*x)*(d+e*x)^(1+m)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^3*(3+m)*(4+m)*(5+m))
--E 236

--S 237 of 765
d0:=normalize(t0-D(r0,x))
--E 237

)clear all

--S 238 of 765
t0:=(a+b*x)*(d+e*x)^7*(a^2+2*a*b*x+b^2*x^2)^(3/2)
--E 238

--S 239 of 765
r0:=-1/33*(b*d-a*e)*(d+e*x)^8*(a^2+2*a*b*x+b^2*x^2)^(3/2)/e^2+1/12*(a+b*x)*
(d+e*x)^8*(a^2+2*a*b*x+b^2*x^2)^(3/2)/e-1/495*(b*d-a*e)^3*(d+e*x)^8*
sqrt(a^2+2*a*b*x+b^2*x^2)/e^4+1/3960*(b*d-a*e)^4*(d+e*x)^8*sqrt(a^2+
2*a*b*x+b^2*x^2)/(e^5*(a+b*x))+1/110*(b*d-a*e)^2*(a+b*x)*(d+e*x)^8*

```

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      sqrt(a^2+2*a*b*x+b^2*x^2)/e^3
--E 239

--S 240 of 765
d0:=normalize(t0-D(r0,x))
--E 240

)clear all

--S 241 of 765
t0:=(a+b*x)*(d+e*x)^6*(a^2+2*a*b*x+b^2*x^2)^(3/2)
--E 241

--S 242 of 765
r0:=-2/55*(b*d-a*e)*(d+e*x)^7*(a^2+2*a*b*x+b^2*x^2)^(3/2)/e^2+1/11*(a+b*x)*_
(d+e*x)^7*(a^2+2*a*b*x+b^2*x^2)^(3/2)/e-1/330*(b*d-a*e)^3*(d+e*x)^7*_
sqrt(a^2+2*a*b*x+b^2*x^2)/e^4+1/2310*(b*d-a*e)^4*(d+e*x)^7*_
sqrt(a^2+2*a*b*x+b^2*x^2)/(e^5*(a+b*x))+2/165*(b*d-a*e)^2*(a+b*x)*_
(d+e*x)^7*sqrt(a^2+2*a*b*x+b^2*x^2)/e^3
--E 242

--S 243 of 765
d0:=normalize(t0-D(r0,x))
--E 243

)clear all

--S 244 of 765
t0:=(a+b*x)*(d+e*x)^5*(a^2+2*a*b*x+b^2*x^2)^(3/2)
--E 244

--S 245 of 765
r0:=-2/45*(b*d-a*e)*(d+e*x)^6*(a^2+2*a*b*x+b^2*x^2)^(3/2)/e^2+1/10*(a+b*x)*_
(d+e*x)^6*(a^2+2*a*b*x+b^2*x^2)^(3/2)/e-1/210*(b*d-a*e)^3*(d+e*x)^6*_
sqrt(a^2+2*a*b*x+b^2*x^2)/e^4+1/1260*(b*d-a*e)^4*(d+e*x)^6*sqrt(a^2+_
2*a*b*x+b^2*x^2)/(e^5*(a+b*x))+1/60*(b*d-a*e)^2*(a+b*x)*(d+e*x)^6*_
sqrt(a^2+2*a*b*x+b^2*x^2)/e^3
--E 245

--S 246 of 765
d0:=normalize(t0-D(r0,x))
--E 246

)clear all

--S 247 of 765
t0:=(a+b*x)*(d+e*x)^4*(a^2+2*a*b*x+b^2*x^2)^(3/2)
--E 247

--S 248 of 765

```

```

r0:=1/630*(b*d-a*e)^4*(a^2+2*a*b*x+b^2*x^2)^(5/2)/b^5+1/126*(b*d-a*e)^3*_
(d+e*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/b^4+1/42*(b*d-a*e)^2*(d+e*x)^2*_
(a^2+2*a*b*x+b^2*x^2)^(5/2)/b^3+1/18*(b*d-a*e)*(d+e*x)^3*(a^2+_
2*a*b*x+b^2*x^2)^(5/2)/b^2+1/9*(d+e*x)^4*(a^2+2*a*b*x+b^2*x^2)^(5/2)/b
--E 248

```

```

--S 249 of 765
d0:=normalize(t0-D(r0,x))
--E 249

```

```
)clear all
```

```

--S 250 of 765
t0:=(a+b*x)*(d+e*x)^3*(a^2+2*a*b*x+b^2*x^2)^(3/2)
--E 250

```

```

--S 251 of 765
r0:=1/280*(b*d-a*e)^3*(a^2+2*a*b*x+b^2*x^2)^(5/2)/b^4+1/56*(b*d-a*e)^2*_
(d+e*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/b^3+3/56*(b*d-a*e)*(d+e*x)^2*_
(a^2+2*a*b*x+b^2*x^2)^(5/2)/b^2+1/8*(d+e*x)^3*(a^2+2*a*b*x+_
b^2*x^2)^(5/2)/b
--E 251

```

```

--S 252 of 765
d0:=normalize(t0-D(r0,x))
--E 252

```

```
)clear all
```

```

--S 253 of 765
t0:=(a+b*x)*(d+e*x)^2*(a^2+2*a*b*x+b^2*x^2)^(3/2)
--E 253

```

```

--S 254 of 765
r0:=1/105*(b*d-a*e)^2*(a^2+2*a*b*x+b^2*x^2)^(5/2)/b^3+1/21*(b*d-a*e)*_
(d+e*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/b^2+1/7*(d+e*x)^2*(a^2+2*a*b*x+_
b^2*x^2)^(5/2)/b
--E 254

```

```

--S 255 of 765
d0:=normalize(t0-D(r0,x))
--E 255

```

```
)clear all
```

```

--S 256 of 765
t0:=(a+b*x)*(d+e*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)
--E 256

```

```

--S 257 of 765

```

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r0:=1/30*(b*d-a*e)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/b^2+1/6*(d+e*x)*_
(a^2+2*a*b*x+b^2*x^2)^(5/2)/b
--E 257

--S 258 of 765
d0:=normalize(t0-D(r0,x))
--E 258

)clear all

--S 259 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)
--E 259

--S 260 of 765
r0:=1/5*(a^2+2*a*b*x+b^2*x^2)^(5/2)/b
--E 260

--S 261 of 765
d0:=normalize(t0-D(r0,x))
--E 261

)clear all

--S 262 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(d+e*x)
--E 262

--S 263 of 765
r0:=-1/3*(b*d-a*e)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/e^2+1/4*(a+b*x)*(a^2+2*a*b*x+_
b^2*x^2)^(3/2)/e-(b*d-a*e)^3*sqrt(a^2+2*a*b*x+b^2*x^2)/e^4+1/2*(b*d-_
a*e)^2*(a+b*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/e^3+(b*d-a*e)^4*log(d+e*x)*_
sqrt(a^2+2*a*b*x+b^2*x^2)/(e^5*(a+b*x))
--E 263

--S 264 of 765
d0:=normalize(t0-D(r0,x))
--E 264

)clear all

--S 265 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(d+e*x)^2
--E 265

--S 266 of 765
r0:=4/3*b*(a^2+2*a*b*x+b^2*x^2)^(3/2)/e^2-(a+b*x)*(a^2+2*a*b*x+_
b^2*x^2)^(3/2)/(e*(d+e*x))+4*b*(b*d-a*e)^2*sqrt(a^2+2*a*b*x+_
b^2*x^2)/e^4-2*b*(b*d-a*e)*(a+b*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/e^3-_
4*b*(b*d-a*e)^3*log(d+e*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^5*(a+b*x))

```

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--E 266

--S 267 of 765
d0:=normalize(t0-D(r0,x))
--E 267

)clear all

--S 268 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(d+e*x)^3
--E 268

--S 269 of 765
r0:=-1/2*(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e*(d+e*x)^2)-
2*b*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e^2*(d+e*x))-6*b^2*(b*d-a*e)*
sqrt(a^2+2*a*b*x+b^2*x^2)/e^4+3*b^2*(a+b*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/
e^3+6*b^2*(b*d-a*e)^2*log(d+e*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^5*(a+b*x))
--E 269

--S 270 of 765
d0:=normalize(t0-D(r0,x))
--E 270

)clear all

--S 271 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(d+e*x)^4
--E 271

--S 272 of 765
r0:=-1/3*(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e*(d+e*x)^3)-
2/3*b*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e^2*(d+e*x)^2)+4*b^3*sqrt(a^2+
2*a*b*x+b^2*x^2)/e^4-2*b^2*(a+b*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^3*(d+
e*x))-4*b^3*(b*d-a*e)*log(d+e*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^5*(a+b*x))
--E 272

--S 273 of 765
d0:=normalize(t0-D(r0,x))
--E 273

)clear all

--S 274 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(d+e*x)^5
--E 274

--S 275 of 765
r0:=-1/4*(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e*(d+e*x)^4)-1/3*b*(a^2+
2*a*b*x+b^2*x^2)^(3/2)/(e^2*(d+e*x)^3)-1/2*b^2*(a+b*x)*sqrt(a^2+2*a*b*x+
b^2*x^2)/(e^3*(d+e*x)^2)+b^3*(b*d-a*e)*sqrt(a^2+2*a*b*x+b^2*x^2)/

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      (e^5*(a+b*x)*(d+e*x))+b^4*log(d+e*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/_
      (e^5*(a+b*x))
--E 275

--S 276 of 765
d0:=normalize(t0-D(r0,x))
--E 276

)clear all

--S 277 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(d+e*x)^6
--E 277

--S 278 of 765
r0:=1/5*(a^2+2*a*b*x+b^2*x^2)^(5/2)/((b*d-a*e)*(d+e*x)^5)
--E 278

--S 279 of 765
d0:=normalize(t0-D(r0,x))
--E 279

)clear all

--S 280 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(d+e*x)^7
--E 280

--S 281 of 765
r0:=1/6*(a^2+2*a*b*x+b^2*x^2)^(5/2)/((b*d-a*e)*(d+e*x)^6)+_
1/30*b*(a^2+2*a*b*x+b^2*x^2)^(5/2)/((b*d-a*e)^2*(d+e*x)^5)
--E 281

--S 282 of 765
d0:=normalize(t0-D(r0,x))
--E 282

)clear all

--S 283 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(d+e*x)^8
--E 283

--S 284 of 765
r0:=1/7*(a^2+2*a*b*x+b^2*x^2)^(5/2)/((b*d-a*e)*(d+e*x)^7)+_
1/21*b*(a^2+2*a*b*x+b^2*x^2)^(5/2)/((b*d-a*e)^2*(d+e*x)^6)+_
1/105*b^2*(a^2+2*a*b*x+b^2*x^2)^(5/2)/((b*d-a*e)^3*(d+e*x)^5)
--E 284

--S 285 of 765

```



```

d0:=normalize(t0-D(r0,x))
--E 285

)clear all

--S 286 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(d+e*x)^9
--E 286

--S 287 of 765
r0:=1/8*(a^2+2*a*b*x+b^2*x^2)^(5/2)/((b*d-a*e)*(d+e*x)^8)+
3/56*b*(a^2+2*a*b*x+b^2*x^2)^(5/2)/((b*d-a*e)^2*(d+e*x)^7)+
1/56*b^2*(a^2+2*a*b*x+b^2*x^2)^(5/2)/((b*d-a*e)^3*(d+e*x)^6)+
1/280*b^3*(a^2+2*a*b*x+b^2*x^2)^(5/2)/((b*d-a*e)^4*(d+e*x)^5)
--E 287

--S 288 of 765
d0:=normalize(t0-D(r0,x))
--E 288

)clear all

--S 289 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(d+e*x)^10
--E 289

--S 290 of 765
r0:=1/9*(a^2+2*a*b*x+b^2*x^2)^(5/2)/((b*d-a*e)*(d+e*x)^9)+
1/18*b*(a^2+2*a*b*x+b^2*x^2)^(5/2)/((b*d-a*e)^2*(d+e*x)^8)+
1/42*b^2*(a^2+2*a*b*x+b^2*x^2)^(5/2)/((b*d-a*e)^3*(d+e*x)^7)+
1/126*b^3*(a^2+2*a*b*x+b^2*x^2)^(5/2)/((b*d-a*e)^4*(d+e*x)^6)+
1/630*b^4*(a^2+2*a*b*x+b^2*x^2)^(5/2)/((b*d-a*e)^5*(d+e*x)^5)
--E 290

--S 291 of 765
d0:=normalize(t0-D(r0,x))
--E 291

)clear all

--S 292 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(d+e*x)^11
--E 292

--S 293 of 765
r0:=-1/10*(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e*(d+e*x)^10)-
2/45*b*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e^2*(d+e*x)^9)-1/60*b^2*(a+b*x)*
sqrt(a^2+2*a*b*x+b^2*x^2)/(e^3*(d+e*x)^8)-1/180*b^3*sqrt(a^2+2*a*b*x+
b^2*x^2)/(e^4*(d+e*x)^7)-1/1260*b^3*(b*d-a*e)*sqrt(a^2+2*a*b*x+
b^2*x^2)/(e^5*(a+b*x)*(d+e*x)^7)

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```

--E 293

--S 294 of 765
d0:=normalize(t0-D(r0,x))
--E 294

)clear all

--S 295 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(d+e*x)^12
--E 295

--S 296 of 765
r0:=-1/11*(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e*(d+e*x)^11)-
2/55*b*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e^2*(d+e*x)^10)-2/165*b^2*(a+b*x)*
sqrt(a^2+2*a*b*x+b^2*x^2)/(e^3*(d+e*x)^9)-4/1155*b^3*sqrt(a^2+2*a*b*x+
b^2*x^2)/(e^4*(d+e*x)^8)-1/2310*b^3*(b*d-a*e)*sqrt(a^2+2*a*b*x+
b^2*x^2)/(e^5*(a+b*x)*(d+e*x)^8)
--E 296

--S 297 of 765
d0:=normalize(t0-D(r0,x))
--E 297

)clear all

--S 298 of 765
t0:=(a+b*x)*(d+e*x)^m*(a^2+2*a*b*x+b^2*x^2)^(5/2)
--E 298

--S 299 of 765
r0:=-120*(b*d-a*e)^3*(d+e*x)^(1+m)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e^4*(4+m)*
(5+m)*(6+m)*(7+m))+30*(b*d-a*e)^2*(a+b*x)*(d+e*x)^(1+m)*(a^2+2*a*b*x+
b^2*x^2)^(3/2)/(e^3*(5+m)*(6+m)*(7+m))-6*(b*d-a*e)*(d+e*x)^(1+m)*(a^2+
2*a*b*x+b^2*x^2)^(5/2)/(e^2*(6+m)*(7+m))+(a+b*x)*(d+e*x)^(1+m)*(a^2+
2*a*b*x+b^2*x^2)^(5/2)/(e*(7+m))-720*(b*d-a*e)^5*(d+e*x)^(1+m)*
sqrt(a^2+2*a*b*x+b^2*x^2)/(e^6*(2+m)*(3+m)*(4+m)*(5+m)*(6+m)*(7+m))+
720*(b*d-a*e)^6*(d+e*x)^(1+m)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^7*(1+m)*
(2+m)*(3+m)*(4+m)*(5+m)*(6+m)*(7+m)*(a+b*x))+360*(b*d-a*e)^4*(a+b*x)*
(d+e*x)^(1+m)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^5*(3+m)*(4+m)*(5+m)*(6+m)*(7+m))
--E 299

--S 300 of 765
d0:=normalize(t0-D(r0,x))
--E 300

)clear all

--S 301 of 765
t0:=(a+b*x)*(d+e*x)^9*(a^2+2*a*b*x+b^2*x^2)^(5/2)

```

--E 301

--S 302 of 765

```
r0:=-1/364*(b*d-a*e)^3*(d+e*x)^10*(a^2+2*a*b*x+b^2*x^2)^(3/2)/e^4+_
1/112*(b*d-a*e)^2*(a+b*x)*(d+e*x)^10*(a^2+2*a*b*x+b^2*x^2)^(3/2)/e^3-_
1/40*(b*d-a*e)*(d+e*x)^10*(a^2+2*a*b*x+b^2*x^2)^(5/2)/e^2+1/16*(a+b*x)*_
(d+e*x)^10*(a^2+2*a*b*x+b^2*x^2)^(5/2)/e-1/8008*(b*d-a*e)^5*(d+e*x)^10*_
sqrt(a^2+2*a*b*x+b^2*x^2)/e^6+1/80080*(b*d-a*e)^6*(d+e*x)^10*sqrt(a^2+_
2*a*b*x+b^2*x^2)/(e^7*(a+b*x))+1/1456*(b*d-a*e)^4*(a+b*x)*(d+e*x)^10*_
sqrt(a^2+2*a*b*x+b^2*x^2)/e^5
```

--E 302

--S 303 of 765

```
d0:=normalize(t0-D(r0,x))
```

--E 303

)clear all

--S 304 of 765

```
t0:=(a+b*x)*(d+e*x)^8*(a^2+2*a*b*x+b^2*x^2)^(5/2)
```

--E 304

--S 305 of 765

```
r0:=-1/273*(b*d-a*e)^3*(d+e*x)^9*(a^2+2*a*b*x+b^2*x^2)^(3/2)/e^4+_
1/91*(b*d-a*e)^2*(a+b*x)*(d+e*x)^9*(a^2+2*a*b*x+b^2*x^2)^(3/2)/e^3-_
1/35*(b*d-a*e)*(d+e*x)^9*(a^2+2*a*b*x+b^2*x^2)^(5/2)/e^2+1/15*(a+b*x)*_
(d+e*x)^9*(a^2+2*a*b*x+b^2*x^2)^(5/2)/e-1/5005*(b*d-a*e)^5*(d+e*x)^9*_
sqrt(a^2+2*a*b*x+b^2*x^2)/e^6+1/45045*(b*d-a*e)^6*(d+e*x)^9*sqrt(a^2+_
2*a*b*x+b^2*x^2)/(e^7*(a+b*x))+1/1001*(b*d-a*e)^4*(a+b*x)*(d+e*x)^9*_
sqrt(a^2+2*a*b*x+b^2*x^2)/e^5
```

--E 305

--S 306 of 765

```
d0:=normalize(t0-D(r0,x))
```

--E 306

)clear all

--S 307 of 765

```
t0:=(a+b*x)*(d+e*x)^7*(a^2+2*a*b*x+b^2*x^2)^(5/2)
```

--E 307

--S 308 of 765

```
r0:=-5/1001*(b*d-a*e)^3*(d+e*x)^8*(a^2+2*a*b*x+b^2*x^2)^(3/2)/e^4+_
5/364*(b*d-a*e)^2*(a+b*x)*(d+e*x)^8*(a^2+2*a*b*x+b^2*x^2)^(3/2)/e^3-_
3/91*(b*d-a*e)*(d+e*x)^8*(a^2+2*a*b*x+b^2*x^2)^(5/2)/e^2+1/14*(a+b*x)*_
(d+e*x)^8*(a^2+2*a*b*x+b^2*x^2)^(5/2)/e-1/3003*(b*d-a*e)^5*(d+e*x)^8*_
sqrt(a^2+2*a*b*x+b^2*x^2)/e^6+1/24024*(b*d-a*e)^6*(d+e*x)^8*sqrt(a^2+_
2*a*b*x+b^2*x^2)/(e^7*(a+b*x))+3/2002*(b*d-a*e)^4*(a+b*x)*(d+e*x)^8*_
sqrt(a^2+2*a*b*x+b^2*x^2)/e^5
```

```

--E 308

--S 309 of 765
d0:=normalize(t0-D(r0,x))
--E 309

)clear all

--S 310 of 765
t0:=(a+b*x)*(d+e*x)^6*(a^2+2*a*b*x+b^2*x^2)^(5/2)
--E 310

--S 311 of 765
r0:=1/12012*(b*d-a*e)^6*(a^2+2*a*b*x+b^2*x^2)^(7/2)/b^7+1/1716*(b*d-a*e)^5*_
(d+e*x)*(a^2+2*a*b*x+b^2*x^2)^(7/2)/b^6+1/429*(b*d-a*e)^4*(d+e*x)^2*_
(a^2+2*a*b*x+b^2*x^2)^(7/2)/b^5+1/143*(b*d-a*e)^3*(d+e*x)^3*(a^2+_
2*a*b*x+b^2*x^2)^(7/2)/b^4+5/286*(b*d-a*e)^2*(d+e*x)^4*(a^2+2*a*b*x+_
b^2*x^2)^(7/2)/b^3+1/26*(b*d-a*e)*(d+e*x)^5*(a^2+2*a*b*x+_
b^2*x^2)^(7/2)/b^2+1/13*(d+e*x)^6*(a^2+2*a*b*x+b^2*x^2)^(7/2)/b
--E 311

--S 312 of 765
d0:=normalize(t0-D(r0,x))
--E 312

)clear all

--S 313 of 765
t0:=(a+b*x)*(d+e*x)^5*(a^2+2*a*b*x+b^2*x^2)^(5/2)
--E 313

--S 314 of 765
r0:=1/5544*(b*d-a*e)^5*(a^2+2*a*b*x+b^2*x^2)^(7/2)/b^6+1/792*(b*d-a*e)^4*_
(d+e*x)*(a^2+2*a*b*x+b^2*x^2)^(7/2)/b^5+1/198*(b*d-a*e)^3*(d+e*x)^2*_
(a^2+2*a*b*x+b^2*x^2)^(7/2)/b^4+1/66*(b*d-a*e)^2*(d+e*x)^3*(a^2+_
2*a*b*x+b^2*x^2)^(7/2)/b^3+5/132*(b*d-a*e)*(d+e*x)^4*(a^2+2*a*b*x+_
b^2*x^2)^(7/2)/b^2+1/12*(d+e*x)^5*(a^2+2*a*b*x+b^2*x^2)^(7/2)/b
--E 314

--S 315 of 765
d0:=normalize(t0-D(r0,x))
--E 315

)clear all

--S 316 of 765
t0:=(a+b*x)*(d+e*x)^4*(a^2+2*a*b*x+b^2*x^2)^(5/2)
--E 316

--S 317 of 765

```

```

r0:=1/2310*(b*d-a*e)^4*(a^2+2*a*b*x+b^2*x^2)^(7/2)/b^5+1/330*(b*d-a*e)^3*_
(d+e*x)*(a^2+2*a*b*x+b^2*x^2)^(7/2)/b^4+2/165*(b*d-a*e)^2*(d+e*x)^2*_
(a^2+2*a*b*x+b^2*x^2)^(7/2)/b^3+2/55*(b*d-a*e)*(d+e*x)^3*(a^2+2*a*b*x+_
b^2*x^2)^(7/2)/b^2+1/11*(d+e*x)^4*(a^2+2*a*b*x+b^2*x^2)^(7/2)/b
--E 317

--S 318 of 765
d0:=normalize(t0-D(r0,x))
--E 318

)clear all

--S 319 of 765
t0:=(a+b*x)*(d+e*x)^3*(a^2+2*a*b*x+b^2*x^2)^(5/2)
--E 319

--S 320 of 765
r0:=1/840*(b*d-a*e)^3*(a^2+2*a*b*x+b^2*x^2)^(7/2)/b^4+1/120*(b*d-a*e)^2*_
(d+e*x)*(a^2+2*a*b*x+b^2*x^2)^(7/2)/b^3+1/30*(b*d-a*e)*(d+e*x)^2*(a^2+_
2*a*b*x+b^2*x^2)^(7/2)/b^2+1/10*(d+e*x)^3*(a^2+2*a*b*x+b^2*x^2)^(7/2)/b
--E 320

--S 321 of 765
d0:=normalize(t0-D(r0,x))
--E 321

)clear all

--S 322 of 765
t0:=(a+b*x)*(d+e*x)^2*(a^2+2*a*b*x+b^2*x^2)^(5/2)
--E 322

--S 323 of 765
r0:=1/252*(b*d-a*e)^2*(a^2+2*a*b*x+b^2*x^2)^(7/2)/b^3+1/36*(b*d-a*e)*_
(d+e*x)*(a^2+2*a*b*x+b^2*x^2)^(7/2)/b^2+1/9*(d+e*x)^2*(a^2+2*a*b*x+_
b^2*x^2)^(7/2)/b
--E 323

--S 324 of 765
d0:=normalize(t0-D(r0,x))
--E 324

)clear all

--S 325 of 765
t0:=(a+b*x)*(d+e*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)
--E 325

--S 326 of 765
r0:=1/56*(b*d-a*e)*(a^2+2*a*b*x+b^2*x^2)^(7/2)/b^2+1/8*(d+e*x)*_

```

```

      (a^2+2*a*b*x+b^2*x^2)^(7/2)/b
--E 326

--S 327 of 765
d0:=normalize(t0-D(r0,x))
--E 327

)clear all

--S 328 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)
--E 328

--S 329 of 765
r0:=1/7*(a^2+2*a*b*x+b^2*x^2)^(7/2)/b
--E 329

--S 330 of 765
d0:=normalize(t0-D(r0,x))
--E 330

)clear all

--S 331 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/(d+e*x)
--E 331

--S 332 of 765
r0:=-1/3*(b*d-a*e)^3*(a^2+2*a*b*x+b^2*x^2)^(3/2)/e^4+1/4*(b*d-a*e)^2*_
(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/e^3-1/5*(b*d-a*e)*(a^2+2*a*b*x+_
b^2*x^2)^(5/2)/e^2+1/6*(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/e-(b*d-_
a*e)^5*sqrt(a^2+2*a*b*x+b^2*x^2)/e^6+1/2*(b*d-a*e)^4*(a+b*x)*_
sqrt(a^2+2*a*b*x+b^2*x^2)/e^5+(b*d-a*e)^6*log(d+e*x)*sqrt(a^2+_
2*a*b*x+b^2*x^2)/(e^7*(a+b*x))
--E 332

--S 333 of 765
d0:=normalize(t0-D(r0,x))
--E 333

)clear all

--S 334 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/(d+e*x)^2
--E 334

--S 335 of 765
r0:=2*b*(b*d-a*e)^2*(a^2+2*a*b*x+b^2*x^2)^(3/2)/e^4-3/2*b*(b*d-a*e)*_
(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/e^3+6/5*b*(a^2+2*a*b*x+_
b^2*x^2)^(5/2)/e^2-(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/(e*(d+e*x))+_

```

```

6*b*(b*d-a*e)^4*sqrt(a^2+2*a*b*x+b^2*x^2)/e^6-3*b*(b*d-a*e)^3*(a+b*x)*_
sqrt(a^2+2*a*b*x+b^2*x^2)/e^5-6*b*(b*d-a*e)^5*log(d+e*x)*sqrt(a^2+_
2*a*b*x+b^2*x^2)/(e^7*(a+b*x))
--E 335

--S 336 of 765
d0:=normalize(t0-D(r0,x))
--E 336

)clear all

--S 337 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/(d+e*x)^3
--E 337

--S 338 of 765
r0:=-5*b^2*(b*d-a*e)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/e^4+15/4*b^2*(a+b*x)*_
(a^2+2*a*b*x+b^2*x^2)^(3/2)/e^3-1/2*(a+b*x)*(a^2+2*a*b*x+_
b^2*x^2)^(5/2)/(e*(d+e*x)^2)-3*b*(a^2+2*a*b*x+b^2*x^2)^(5/2)/_
(e^2*(d+e*x))-15*b^2*(b*d-a*e)^3*sqrt(a^2+2*a*b*x+b^2*x^2)/e^6+_
15/2*b^2*(b*d-a*e)^2*(a+b*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/e^5+_
15*b^2*(b*d-a*e)^4*log(d+e*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^7*(a+b*x))
--E 338

--S 339 of 765
d0:=normalize(t0-D(r0,x))
--E 339

)clear all

--S 340 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/(d+e*x)^4
--E 340

--S 341 of 765
r0:=20/3*b^3*(a^2+2*a*b*x+b^2*x^2)^(3/2)/e^4-5*b^2*(a+b*x)*(a^2+2*a*b*x+_
b^2*x^2)^(3/2)/(e^3*(d+e*x))-1/3*(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/_
(e*(d+e*x)^3)-b*(a^2+2*a*b*x+b^2*x^2)^(5/2)/(e^2*(d+e*x)^2)+20*b^3*_
(b*d-a*e)^2*sqrt(a^2+2*a*b*x+b^2*x^2)/e^6-10*b^3*(b*d-a*e)*(a+b*x)*_
sqrt(a^2+2*a*b*x+b^2*x^2)/e^5-20*b^3*(b*d-a*e)^3*log(d+e*x)*sqrt(a^2+_
2*a*b*x+b^2*x^2)/(e^7*(a+b*x))
--E 341

--S 342 of 765
d0:=normalize(t0-D(r0,x))
--E 342

)clear all

--S 343 of 765

```

```

t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/(d+e*x)^5
--E 343

--S 344 of 765
r0:=-5/4*b^2*(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e^3*(d+e*x)^2)-_
5*b^3*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e^4*(d+e*x))-1/4*(a+b*x)*(a^2+_
2*a*b*x+b^2*x^2)^(5/2)/(e*(d+e*x)^4)-1/2*b*(a^2+2*a*b*x+_
b^2*x^2)^(5/2)/(e^2*(d+e*x)^3)-15*b^4*(b*d-a*e)*sqrt(a^2+2*a*b*x+_
b^2*x^2)/e^6+15/2*b^4*(a+b*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/e^5+_
15*b^4*(b*d-a*e)^2*log(d+e*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^7*(a+b*x))
--E 344

--S 345 of 765
d0:=normalize(t0-D(r0,x))
--E 345

)clear all

--S 346 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/(d+e*x)^6
--E 346

--S 347 of 765
r0:=-1/2*b^2*(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e^3*(d+e*x)^3)-_
b^3*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e^4*(d+e*x)^2)-1/5*(a+b*x)*(a^2+_
2*a*b*x+b^2*x^2)^(5/2)/(e*(d+e*x)^5)-3/10*b*(a^2+2*a*b*x+_
b^2*x^2)^(5/2)/(e^2*(d+e*x)^4)+6*b^5*sqrt(a^2+2*a*b*x+b^2*x^2)/e^6-_
3*b^4*(a+b*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^5*(d+e*x))-_
6*b^5*(b*d-a*e)*log(d+e*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^7*(a+b*x))
--E 347

--S 348 of 765
d0:=normalize(t0-D(r0,x))
--E 348

)clear all

--S 349 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/(d+e*x)^7
--E 349

--S 350 of 765
r0:=-1/4*b^2*(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e^3*(d+e*x)^4)-_
1/3*b^3*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e^4*(d+e*x)^3)-1/6*(a+b*x)*_
(a^2+2*a*b*x+b^2*x^2)^(5/2)/(e*(d+e*x)^6)-1/5*b*(a^2+2*a*b*x+_
b^2*x^2)^(5/2)/(e^2*(d+e*x)^5)-1/2*b^4*(a+b*x)*sqrt(a^2+2*a*b*x+_
b^2*x^2)/(e^5*(d+e*x)^2)+b^5*(b*d-a*e)*sqrt(a^2+2*a*b*x+b^2*x^2)/_
(e^7*(a+b*x)*(d+e*x))+b^6*log(d+e*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/_
(e^7*(a+b*x))
--E 350

```



```

--S 351 of 765
d0:=normalize(t0-D(r0,x))
--E 351

)clear all

--S 352 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/(d+e*x)^8
--E 352

--S 353 of 765
r0:=1/7*(a^2+2*a*b*x+b^2*x^2)^(7/2)/((b*d-a*e)*(d+e*x)^7)
--E 353

--S 354 of 765
d0:=normalize(t0-D(r0,x))
--E 354

)clear all

--S 355 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/(d+e*x)^9
--E 355

--S 356 of 765
r0:=1/8*(a^2+2*a*b*x+b^2*x^2)^(7/2)/((b*d-a*e)*(d+e*x)^8)+_
1/56*b*(a^2+2*a*b*x+b^2*x^2)^(7/2)/((b*d-a*e)^2*(d+e*x)^7)
--E 356

--S 357 of 765
d0:=normalize(t0-D(r0,x))
--E 357

)clear all

--S 358 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/(d+e*x)^10
--E 358

--S 359 of 765
r0:=1/9*(a^2+2*a*b*x+b^2*x^2)^(7/2)/((b*d-a*e)*(d+e*x)^9)+_
1/36*b*(a^2+2*a*b*x+b^2*x^2)^(7/2)/((b*d-a*e)^2*(d+e*x)^8)+_
1/252*b^2*(a^2+2*a*b*x+b^2*x^2)^(7/2)/((b*d-a*e)^3*(d+e*x)^7)
--E 359

--S 360 of 765
d0:=normalize(t0-D(r0,x))
--E 360

```

```

)clear all

--S 361 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/(d+e*x)^11
--E 361

--S 362 of 765
r0:=1/10*(a^2+2*a*b*x+b^2*x^2)^(7/2)/((b*d-a*e)*(d+e*x)^10)+
1/30*b*(a^2+2*a*b*x+b^2*x^2)^(7/2)/((b*d-a*e)^2*(d+e*x)^9)+
1/120*b^2*(a^2+2*a*b*x+b^2*x^2)^(7/2)/((b*d-a*e)^3*(d+e*x)^8)+
1/840*b^3*(a^2+2*a*b*x+b^2*x^2)^(7/2)/((b*d-a*e)^4*(d+e*x)^7)
--E 362

--S 363 of 765
d0:=normalize(t0-D(r0,x))
--E 363

)clear all

--S 364 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/(d+e*x)^12
--E 364

--S 365 of 765
r0:=1/11*(a^2+2*a*b*x+b^2*x^2)^(7/2)/((b*d-a*e)*(d+e*x)^11)+
2/55*b*(a^2+2*a*b*x+b^2*x^2)^(7/2)/((b*d-a*e)^2*(d+e*x)^10)+
2/165*b^2*(a^2+2*a*b*x+b^2*x^2)^(7/2)/((b*d-a*e)^3*(d+e*x)^9)+
1/330*b^3*(a^2+2*a*b*x+b^2*x^2)^(7/2)/((b*d-a*e)^4*(d+e*x)^8)+
1/2310*b^4*(a^2+2*a*b*x+b^2*x^2)^(7/2)/((b*d-a*e)^5*(d+e*x)^7)
--E 365

--S 366 of 765
d0:=normalize(t0-D(r0,x))
--E 366

)clear all

--S 367 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/(d+e*x)^13
--E 367

--S 368 of 765
r0:=1/12*(a^2+2*a*b*x+b^2*x^2)^(7/2)/((b*d-a*e)*(d+e*x)^12)+
5/132*b*(a^2+2*a*b*x+b^2*x^2)^(7/2)/((b*d-a*e)^2*(d+e*x)^11)+
1/66*b^2*(a^2+2*a*b*x+b^2*x^2)^(7/2)/((b*d-a*e)^3*(d+e*x)^10)+
1/198*b^3*(a^2+2*a*b*x+b^2*x^2)^(7/2)/((b*d-a*e)^4*(d+e*x)^9)+
1/792*b^4*(a^2+2*a*b*x+b^2*x^2)^(7/2)/((b*d-a*e)^5*(d+e*x)^8)+
1/5544*b^5*(a^2+2*a*b*x+b^2*x^2)^(7/2)/((b*d-a*e)^6*(d+e*x)^7)
--E 368

```

```

--S 369 of 765
d0:=normalize(t0-D(r0,x))
--E 369

)clear all

--S 370 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/(d+e*x)^14
--E 370

--S 371 of 765
r0:=1/13*(a^2+2*a*b*x+b^2*x^2)^(7/2)/((b*d-a*e)*(d+e*x)^13)+
1/26*b*(a^2+2*a*b*x+b^2*x^2)^(7/2)/((b*d-a*e)^2*(d+e*x)^12)+
5/286*b^2*(a^2+2*a*b*x+b^2*x^2)^(7/2)/((b*d-a*e)^3*(d+e*x)^11)+
1/143*b^3*(a^2+2*a*b*x+b^2*x^2)^(7/2)/((b*d-a*e)^4*(d+e*x)^10)+
1/429*b^4*(a^2+2*a*b*x+b^2*x^2)^(7/2)/((b*d-a*e)^5*(d+e*x)^9)+
1/1716*b^5*(a^2+2*a*b*x+b^2*x^2)^(7/2)/((b*d-a*e)^6*(d+e*x)^8)+
1/12012*b^6*(a^2+2*a*b*x+b^2*x^2)^(7/2)/((b*d-a*e)^7*(d+e*x)^7)
--E 371

--S 372 of 765
d0:=normalize(t0-D(r0,x))
--E 372

)clear all

--S 373 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/(d+e*x)^15
--E 373

--S 374 of 765
r0:=-5/364*b^2*(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e^3*(d+e*x)^12)-
5/1001*b^3*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e^4*(d+e*x)^11)-1/14*(a+b*x)*
(a^2+2*a*b*x+b^2*x^2)^(5/2)/(e*(d+e*x)^14)-3/91*b*(a^2+2*a*b*x+
b^2*x^2)^(5/2)/(e^2*(d+e*x)^13)-3/2002*b^4*(a+b*x)*sqrt(a^2+2*a*b*x+
b^2*x^2)/(e^5*(d+e*x)^10)-3/8008*b^5*sqrt(a^2+2*a*b*x+b^2*x^2)/
(e^6*(d+e*x)^9)-1/24024*b^5*(b*d-a*e)*sqrt(a^2+2*a*b*x+b^2*x^2)/
(e^7*(a+b*x)*(d+e*x)^9)
--E 374

--S 375 of 765
d0:=normalize(t0-D(r0,x))
--E 375

)clear all

--S 376 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/(d+e*x)^16
--E 376

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--S 377 of 765
r0:=-1/91*b^2*(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e^3*(d+e*x)^13)-
1/273*b^3*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e^4*(d+e*x)^12)-1/15*(a+b*x)*
(a^2+2*a*b*x+b^2*x^2)^(5/2)/(e*(d+e*x)^15)-1/35*b*(a^2+2*a*b*x+_
b^2*x^2)^(5/2)/(e^2*(d+e*x)^14)-1/1001*b^4*(a+b*x)*sqrt(a^2+2*a*b*x+_
b^2*x^2)/(e^5*(d+e*x)^11)-2/9009*b^5*sqrt(a^2+2*a*b*x+b^2*x^2)/_
(e^6*(d+e*x)^10)-1/45045*b^5*(b*d-a*e)*sqrt(a^2+2*a*b*x+b^2*x^2)/_
(e^7*(a+b*x)*(d+e*x)^10)
--E 377

--S 378 of 765
d0:=normalize(t0-D(r0,x))
--E 378

)clear all

--S 379 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/(d+e*x)^17
--E 379

--S 380 of 765
r0:=-1/112*b^2*(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e^3*(d+e*x)^14)-
1/364*b^3*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e^4*(d+e*x)^13)-1/16*(a+b*x)*
(a^2+2*a*b*x+b^2*x^2)^(5/2)/(e*(d+e*x)^16)-1/40*b*(a^2+2*a*b*x+_
b^2*x^2)^(5/2)/(e^2*(d+e*x)^15)-1/1456*b^4*(a+b*x)*sqrt(a^2+2*a*b*x+_
b^2*x^2)/(e^5*(d+e*x)^12)-1/7280*b^5*sqrt(a^2+2*a*b*x+b^2*x^2)/_
(e^6*(d+e*x)^11)-1/80080*b^5*(b*d-a*e)*sqrt(a^2+2*a*b*x+b^2*x^2)/_
(e^7*(a+b*x)*(d+e*x)^11)
--E 380

--S 381 of 765
d0:=normalize(t0-D(r0,x))
--E 381

)clear all

--S 382 of 765
t0:=(a+b*x)*(d+e*x)^m/sqrt(a^2+2*a*b*x+b^2*x^2)
--E 382

--S 383 of 765
r0:=(a+b*x)*(d+e*x)^(1+m)/(e*(1+m)*sqrt(a^2+2*a*b*x+b^2*x^2))
--E 383

--S 384 of 765
d0:=normalize(t0-D(r0,x))
--E 384

)clear all

```

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--S 385 of 765
t0:=(a+b*x)*(d+e*x)^4/sqrt(a^2+2*a*b*x+b^2*x^2)
--E 385

--S 386 of 765
r0:=1/5*(a+b*x)*(d+e*x)^5/(e*sqrt(a^2+2*a*b*x+b^2*x^2))
--E 386

--S 387 of 765
d0:=normalize(t0-D(r0,x))
--E 387

)clear all

--S 388 of 765
t0:=(a+b*x)*(d+e*x)^3/sqrt(a^2+2*a*b*x+b^2*x^2)
--E 388

--S 389 of 765
r0:=1/4*(a+b*x)*(d+e*x)^4/(e*sqrt(a^2+2*a*b*x+b^2*x^2))
--E 389

--S 390 of 765
d0:=normalize(t0-D(r0,x))
--E 390

)clear all

--S 391 of 765
t0:=(a+b*x)*(d+e*x)^2/sqrt(a^2+2*a*b*x+b^2*x^2)
--E 391

--S 392 of 765
r0:=1/3*(a+b*x)*(d+e*x)^3/(e*sqrt(a^2+2*a*b*x+b^2*x^2))
--E 392

--S 393 of 765
d0:=normalize(t0-D(r0,x))
--E 393

)clear all

--S 394 of 765
t0:=(a+b*x)*(d+e*x)/sqrt(a^2+2*a*b*x+b^2*x^2)
--E 394

--S 395 of 765
r0:=d*x*(a+b*x)/sqrt(a^2+2*a*b*x+b^2*x^2)+1/2*e*x^2*(a+b*x)/_
sqrt(a^2+2*a*b*x+b^2*x^2)
--E 395

```

```

--S 396 of 765
d0:=normalize(t0-D(r0,x))
--E 396

)clear all

--S 397 of 765
t0:=(a+b*x)/sqrt(a^2+2*a*b*x+b^2*x^2)
--E 397

--S 398 of 765
r0:=sqrt(a^2+2*a*b*x+b^2*x^2)/b
--E 398

--S 399 of 765
d0:=normalize(t0-D(r0,x))
--E 399

)clear all

--S 400 of 765
t0:=(a+b*x)/((d+e*x)*sqrt(a^2+2*a*b*x+b^2*x^2))
--E 400

--S 401 of 765
r0:=(a+b*x)*log(d+e*x)/(e*sqrt(a^2+2*a*b*x+b^2*x^2))
--E 401

--S 402 of 765
d0:=normalize(t0-D(r0,x))
--E 402

)clear all

--S 403 of 765
t0:=(a+b*x)/((d+e*x)^2*sqrt(a^2+2*a*b*x+b^2*x^2))
--E 403

--S 404 of 765
r0:=(-a-b*x)/(e*(d+e*x)*sqrt(a^2+2*a*b*x+b^2*x^2))
--E 404

--S 405 of 765
d0:=normalize(t0-D(r0,x))
--E 405

)clear all

--S 406 of 765

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```

t0:=(a+b*x)/((d+e*x)^3*sqrt(a^2+2*a*b*x+b^2*x^2))
--E 406

--S 407 of 765
r0:=1/2*(-a-b*x)/(e*(d+e*x)^2*sqrt(a^2+2*a*b*x+b^2*x^2))
--E 407

--S 408 of 765
d0:=normalize(t0-D(r0,x))
--E 408

)clear all

--S 409 of 765
t0:=(a+b*x)/((d+e*x)^4*sqrt(a^2+2*a*b*x+b^2*x^2))
--E 409

--S 410 of 765
r0:=1/3*(-a-b*x)/(e*(d+e*x)^3*sqrt(a^2+2*a*b*x+b^2*x^2))
--E 410

--S 411 of 765
d0:=normalize(t0-D(r0,x))
--E 411

)clear all

--S 412 of 765
t0:=(a+b*x)/((d+e*x)^5*sqrt(a^2+2*a*b*x+b^2*x^2))
--E 412

--S 413 of 765
r0:=1/4*(-a-b*x)/(e*(d+e*x)^4*sqrt(a^2+2*a*b*x+b^2*x^2))
--E 413

--S 414 of 765
d0:=normalize(t0-D(r0,x))
--E 414

)clear all

--S 415 of 765
t0:=(a+b*x)*(d+e*x)^4/(a^2+2*a*b*x+b^2*x^2)^(3/2)
--E 415

--S 416 of 765
r0:=2*e*(b*d-a*e)*(a+b*x)*(d+e*x)^2/(b^3*sqrt(a^2+2*a*b*x+b^2*x^2))+_
4/3*e*(a+b*x)*(d+e*x)^3/(b^2*sqrt(a^2+2*a*b*x+b^2*x^2))-_
(d+e*x)^4/(b*sqrt(a^2+2*a*b*x+b^2*x^2))+4*e*(b*d-a*e)^3*(a+b*x)*_
log(a+b*x)/(b^5*sqrt(a^2+2*a*b*x+b^2*x^2))+4*e^2*(b*d-a*e)^2*_

```

```

      sqrt(a^2+2*a*b*x+b^2*x^2)/b^5
--E 416

--S 417 of 765
d0:=normalize(t0-D(r0,x))
--E 417

)clear all

--S 418 of 765
t0:=(a+b*x)*(d+e*x)^3/(a^2+2*a*b*x+b^2*x^2)^(3/2)
--E 418

--S 419 of 765
r0:=3/2*e*(a+b*x)*(d+e*x)^2/(b^2*sqrt(a^2+2*a*b*x+b^2*x^2))-(d+e*x)^3/_
(b*sqrt(a^2+2*a*b*x+b^2*x^2))+3*e*(b*d-a*e)^2*(a+b*x)*log(a+b*x)/_
(b^4*sqrt(a^2+2*a*b*x+b^2*x^2))+3*e^2*(b*d-a*e)*_
sqrt(a^2+2*a*b*x+b^2*x^2)/b^4
--E 419

--S 420 of 765
d0:=normalize(t0-D(r0,x))
--E 420

)clear all

--S 421 of 765
t0:=(a+b*x)*(d+e*x)^2/(a^2+2*a*b*x+b^2*x^2)^(3/2)
--E 421

--S 422 of 765
r0:=- (d+e*x)^2/(b*sqrt(a^2+2*a*b*x+b^2*x^2))+2*e*(b*d-a*e)*(a+b*x)*_
log(a+b*x)/(b^3*sqrt(a^2+2*a*b*x+b^2*x^2))+2*e^2*_
sqrt(a^2+2*a*b*x+b^2*x^2)/b^3
--E 422

--S 423 of 765
d0:=normalize(t0-D(r0,x))
--E 423

)clear all

--S 424 of 765
t0:=(a+b*x)*(d+e*x)/(a^2+2*a*b*x+b^2*x^2)^(3/2)
--E 424

--S 425 of 765
r0:=(-d-e*x)/(b*sqrt(a^2+2*a*b*x+b^2*x^2))+e*(a+b*x)*log(a+b*x)/_
(b^2*sqrt(a^2+2*a*b*x+b^2*x^2))
--E 425

```



```

--S 426 of 765
d0:=normalize(t0-D(r0,x))
--E 426

)clear all

--S 427 of 765
t0:=(a+b*x)/(a^2+2*a*b*x+b^2*x^2)^(3/2)
--E 427

--S 428 of 765
r0:=(-1)/(b*sqrt(a^2+2*a*b*x+b^2*x^2))
--E 428

--S 429 of 765
d0:=normalize(t0-D(r0,x))
--E 429

)clear all

--S 430 of 765
t0:=(a+b*x)/((d+e*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2))
--E 430

--S 431 of 765
r0:=(-1)/((b*d-a*e)*sqrt(a^2+2*a*b*x+b^2*x^2))-e*(a+b*x)*log(a+b*x)/_
((b*d-a*e)^2*sqrt(a^2+2*a*b*x+b^2*x^2))+e*(a+b*x)*log(d+e*x)/_
((b*d-a*e)^2*sqrt(a^2+2*a*b*x+b^2*x^2))
--E 431

--S 432 of 765
d0:=normalize(t0-D(r0,x))
--E 432

)clear all

--S 433 of 765
t0:=(a+b*x)/((d+e*x)^2*(a^2+2*a*b*x+b^2*x^2)^(3/2))
--E 433

--S 434 of 765
r0:=-2*b/((b*d-a*e)^2*sqrt(a^2+2*a*b*x+b^2*x^2))+1/((b*d-a*e)*(d+e*x)*_
sqrt(a^2+2*a*b*x+b^2*x^2))-2*b*e*(a+b*x)*log(a+b*x)/((b*d-a*e)^3*_
sqrt(a^2+2*a*b*x+b^2*x^2))+2*b*e*(a+b*x)*log(d+e*x)/((b*d-a*e)^3*_
sqrt(a^2+2*a*b*x+b^2*x^2))
--E 434

--S 435 of 765
d0:=normalize(t0-D(r0,x))

```

```

--E 435

)clear all

--S 436 of 765
t0:=(a+b*x)/((d+e*x)^3*(a^2+2*a*b*x+b^2*x^2)^(3/2))
--E 436

--S 437 of 765
r0:=-3*b^2/((b*d-a*e)^3*sqrt(a^2+2*a*b*x+b^2*x^2))+1/2/((b*d-a*e)*(d+e*x)^2*_
sqrt(a^2+2*a*b*x+b^2*x^2))+3/2*b/((b*d-a*e)^2*(d+e*x)*sqrt(a^2+2*a*b*x+_
b^2*x^2))-3*b^2*e*(a+b*x)*log(a+b*x)/((b*d-a*e)^4*sqrt(a^2+2*a*b*x+_
b^2*x^2))+3*b^2*e*(a+b*x)*log(d+e*x)/((b*d-a*e)^4*sqrt(a^2+2*a*b*x+_
b^2*x^2))
--E 437

--S 438 of 765
d0:=normalize(t0-D(r0,x))
--E 438

)clear all

--S 439 of 765
t0:=(a+b*x)*(d+e*x)^5/(a^2+2*a*b*x+b^2*x^2)^(5/2)
--E 439

--S 440 of 765
r0:=-5/6*e*(a+b*x)*(d+e*x)^4/(b^2*(a^2+2*a*b*x+b^2*x^2)^(3/2))-
1/3*(d+e*x)^5/(b*(a^2+2*a*b*x+b^2*x^2)^(3/2))+5*e^3*(a+b*x)*_
(d+e*x)^2/(b^4*sqrt(a^2+2*a*b*x+b^2*x^2))-10/3*e^2*(d+e*x)^3/(b^3*_
sqrt(a^2+2*a*b*x+b^2*x^2))+10*e^3*(b*d-a*e)^2*(a+b*x)*log(a+b*x)/(b^6*_
sqrt(a^2+2*a*b*x+b^2*x^2))+10*e^4*(b*d-a*e)*sqrt(a^2+2*a*b*x+b^2*x^2)/b^6
--E 440

--S 441 of 765
d0:=normalize(t0-D(r0,x))
--E 441

)clear all

--S 442 of 765
t0:=(a+b*x)*(d+e*x)^4/(a^2+2*a*b*x+b^2*x^2)^(5/2)
--E 442

--S 443 of 765
r0:=-2/3*e*(a+b*x)*(d+e*x)^3/(b^2*(a^2+2*a*b*x+b^2*x^2)^(3/2))-
1/3*(d+e*x)^4/(b*(a^2+2*a*b*x+b^2*x^2)^(3/2))-2*e^2*(d+e*x)^2/(b^3*_
sqrt(a^2+2*a*b*x+b^2*x^2))+4*e^3*(b*d-a*e)*(a+b*x)*log(a+b*x)/(b^5*_
sqrt(a^2+2*a*b*x+b^2*x^2))+4*e^4*sqrt(a^2+2*a*b*x+b^2*x^2)/b^5
--E 443

```

```

--S 444 of 765
d0:=normalize(t0-D(r0,x))
--E 444

)clear all

--S 445 of 765
t0:=(a+b*x)*(d+e*x)^3/(a^2+2*a*b*x+b^2*x^2)^(5/2)
--E 445

--S 446 of 765
r0:=-1/2*e*(a+b*x)*(d+e*x)^2/(b^2*(a^2+2*a*b*x+b^2*x^2)^(3/2))-
1/3*(d+e*x)^3/(b*(a^2+2*a*b*x+b^2*x^2)^(3/2))-e^2*(d+e*x)/(b^3*_
sqrt(a^2+2*a*b*x+b^2*x^2))+e^3*(a+b*x)*log(a+b*x)/(b^4*sqrt(a^2+_
2*a*b*x+b^2*x^2))
--E 446

--S 447 of 765
d0:=normalize(t0-D(r0,x))
--E 447

)clear all

--S 448 of 765
t0:=(a+b*x)*(d+e*x)^2/(a^2+2*a*b*x+b^2*x^2)^(5/2)
--E 448

--S 449 of 765
r0:=-1/3*(d+e*x)^3/((b*d-a*e)*(a^2+2*a*b*x+b^2*x^2)^(3/2))
--E 449

--S 450 of 765
d0:=normalize(t0-D(r0,x))
--E 450

)clear all

--S 451 of 765
t0:=(a+b*x)*(d+e*x)/(a^2+2*a*b*x+b^2*x^2)^(5/2)
--E 451

--S 452 of 765
r0:=-1/6*e*(a+b*x)/(b^2*(a^2+2*a*b*x+b^2*x^2)^(3/2))+
1/3*(-d-e*x)/(b*(a^2+2*a*b*x+b^2*x^2)^(3/2))
--E 452

--S 453 of 765
d0:=normalize(t0-D(r0,x))
--E 453

```

```

)clear all

--S 454 of 765
t0:=(a+b*x)/(a^2+2*a*b*x+b^2*x^2)^(5/2)
--E 454

--S 455 of 765
r0:=(-1/3)/(b*(a^2+2*a*b*x+b^2*x^2)^(3/2))
--E 455

--S 456 of 765
d0:=normalize(t0-D(r0,x))
--E 456

)clear all

--S 457 of 765
t0:=(a+b*x)/((d+e*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2))
--E 457

--S 458 of 765
r0:=(-1/3)/((b*d-a*e)*(a^2+2*a*b*x+b^2*x^2)^(3/2))+1/2*e*(a+b*x)/_
((b*d-a*e)^2*(a^2+2*a*b*x+b^2*x^2)^(3/2))-e^2/((b*d-a*e)^3*_
sqrt(a^2+2*a*b*x+b^2*x^2))-e^3*(a+b*x)*log(a+b*x)/((b*d-a*e)^4*_
sqrt(a^2+2*a*b*x+b^2*x^2))+e^3*(a+b*x)*log(d+e*x)/((b*d-a*e)^4*_
sqrt(a^2+2*a*b*x+b^2*x^2))
--E 458

--S 459 of 765
d0:=normalize(t0-D(r0,x))
--E 459

)clear all

--S 460 of 765
t0:=(a+b*x)/((d+e*x)^2*(a^2+2*a*b*x+b^2*x^2)^(5/2))
--E 460

--S 461 of 765
r0:=-4/3*b/((b*d-a*e)^2*(a^2+2*a*b*x+b^2*x^2)^(3/2))+2*b*e*(a+b*x)/_
((b*d-a*e)^3*(a^2+2*a*b*x+b^2*x^2)^(3/2))+1/((b*d-a*e)*(d+e*x)*_
(a^2+2*a*b*x+b^2*x^2)^(3/2))-4*b*e^2/((b*d-a*e)^4*sqrt(a^2+2*a*b*x+_
b^2*x^2))-4*b*e^3*(a+b*x)*log(a+b*x)/((b*d-a*e)^5*sqrt(a^2+2*a*b*x+_
b^2*x^2))+4*b*e^3*(a+b*x)*log(d+e*x)/((b*d-a*e)^5*sqrt(a^2+2*a*b*x+b^2*x^2))
--E 461

--S 462 of 765
d0:=normalize(t0-D(r0,x))
--E 462

```

```

)clear all

--S 463 of 765
t0:=(a+b*x)/((d+e*x)^3*(a^2+2*a*b*x+b^2*x^2)^(5/2))
--E 463

--S 464 of 765
r0:=-10/3*b^2/((b*d-a*e)^3*(a^2+2*a*b*x+b^2*x^2)^(3/2))+5*b^2*e*(a+b*x)/_
((b*d-a*e)^4*(a^2+2*a*b*x+b^2*x^2)^(3/2))+1/2/((b*d-a*e)*(d+e*x)^2*_
(a^2+2*a*b*x+b^2*x^2)^(3/2))+5/2*b/((b*d-a*e)^2*(d+e*x)*(a^2+2*a*b*x+_
b^2*x^2)^(3/2))-10*b^2*e^2/((b*d-a*e)^5*sqrt(a^2+2*a*b*x+b^2*x^2))-_
10*b^2*e^3*(a+b*x)*log(a+b*x)/((b*d-a*e)^6*sqrt(a^2+2*a*b*x+b^2*x^2))+_
10*b^2*e^3*(a+b*x)*log(d+e*x)/((b*d-a*e)^6*sqrt(a^2+2*a*b*x+b^2*x^2))
--E 464

--S 465 of 765
d0:=normalize(t0-D(r0,x))
--E 465

)clear all

--S 466 of 765
t0:=(a+b*x)*(d+e*x)^(7/2)*(a^2+2*a*b*x+b^2*x^2)
--E 466

--S 467 of 765
r0:=-2/9*(b*d-a*e)^3*(d+e*x)^(9/2)/e^4+6/11*b*(b*d-a*e)^2*(d+e*x)^(11/2)/e^4-_
6/13*b^2*(b*d-a*e)*(d+e*x)^(13/2)/e^4+2/15*b^3*(d+e*x)^(15/2)/e^4
--E 467

--S 468 of 765
d0:=normalize(t0-D(r0,x))
--E 468

)clear all

--S 469 of 765
t0:=(a+b*x)*(d+e*x)^(5/2)*(a^2+2*a*b*x+b^2*x^2)
--E 469

--S 470 of 765
r0:=-2/7*(b*d-a*e)^3*(d+e*x)^(7/2)/e^4+2/3*b*(b*d-a*e)^2*(d+e*x)^(9/2)/e^4-_
6/11*b^2*(b*d-a*e)*(d+e*x)^(11/2)/e^4+2/13*b^3*(d+e*x)^(13/2)/e^4
--E 470

--S 471 of 765
d0:=normalize(t0-D(r0,x))
--E 471

```

```

)clear all

--S 472 of 765
t0:=(a+b*x)*(d+e*x)^(3/2)*(a^2+2*a*b*x+b^2*x^2)
--E 472

--S 473 of 765
r0:=-2/5*(b*d-a*e)^3*(d+e*x)^(5/2)/e^4+6/7*b*(b*d-a*e)^2*(d+e*x)^(7/2)/e^4-
2/3*b^2*(b*d-a*e)*(d+e*x)^(9/2)/e^4+2/11*b^3*(d+e*x)^(11/2)/e^4
--E 473

--S 474 of 765
d0:=normalize(t0-D(r0,x))
--E 474

)clear all

--S 475 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)*sqrt(d+e*x)
--E 475

--S 476 of 765
r0:=-2/3*(b*d-a*e)^3*(d+e*x)^(3/2)/e^4+6/5*b*(b*d-a*e)^2*(d+e*x)^(5/2)/e^4-
6/7*b^2*(b*d-a*e)*(d+e*x)^(7/2)/e^4+2/9*b^3*(d+e*x)^(9/2)/e^4
--E 476

--S 477 of 765
d0:=normalize(t0-D(r0,x))
--E 477

)clear all

--S 478 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)/sqrt(d+e*x)
--E 478

--S 479 of 765
r0:=2*b*(b*d-a*e)^2*(d+e*x)^(3/2)/e^4-6/5*b^2*(b*d-a*e)*(d+e*x)^(5/2)/e^4+
2/7*b^3*(d+e*x)^(7/2)/e^4-2*(b*d-a*e)^3*sqrt(d+e*x)/e^4
--E 479

--S 480 of 765
d0:=normalize(t0-D(r0,x))
--E 480

)clear all

--S 481 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)/(d+e*x)^(3/2)
--E 481

```

```

--S 482 of 765
r0:=-2*b^2*(b*d-a*e)*(d+e*x)^(3/2)/e^4+2/5*b^3*(d+e*x)^(5/2)/e^4+_
  2*(b*d-a*e)^3/(e^4*sqrt(d+e*x))+6*b*(b*d-a*e)^2*sqrt(d+e*x)/e^4
--E 482

--S 483 of 765
d0:=normalize(t0-D(r0,x))
--E 483

)clear all

--S 484 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)/(d+e*x)^(5/2)
--E 484

--S 485 of 765
r0:=2/3*(b*d-a*e)^3/(e^4*(d+e*x)^(3/2))+2/3*b^3*(d+e*x)^(3/2)/e^4-_
  6*b*(b*d-a*e)^2/(e^4*sqrt(d+e*x))-6*b^2*(b*d-a*e)*sqrt(d+e*x)/e^4
--E 485

--S 486 of 765
d0:=normalize(t0-D(r0,x))
--E 486

)clear all

--S 487 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)/(d+e*x)^(7/2)
--E 487

--S 488 of 765
r0:=2/5*(b*d-a*e)^3/(e^4*(d+e*x)^(5/2))-2*b*(b*d-a*e)^2/(e^4*(d+e*x)^(3/2))+_
  6*b^2*(b*d-a*e)/(e^4*sqrt(d+e*x))+2*b^3*sqrt(d+e*x)/e^4
--E 488

--S 489 of 765
d0:=normalize(t0-D(r0,x))
--E 489

)clear all

--S 490 of 765
t0:=(a+b*x)*(d+e*x)^(7/2)*(a^2+2*a*b*x+b^2*x^2)^2
--E 490

--S 491 of 765
r0:=-2/9*(b*d-a*e)^5*(d+e*x)^(9/2)/e^6+10/11*b*(b*d-a*e)^4*(d+e*x)^(11/2)/_
  e^6-20/13*b^2*(b*d-a*e)^3*(d+e*x)^(13/2)/e^6+4/3*b^3*(b*d-a*e)^2*(d+_
  e*x)^(15/2)/e^6-10/17*b^4*(b*d-a*e)*(d+e*x)^(17/2)/e^6+2/19*b^5*(d+_

```

```

    e*x)^(19/2)/e^6
--E 491

--S 492 of 765
d0:=normalize(t0-D(r0,x))
--E 492

)clear all

--S 493 of 765
t0:=(a+b*x)*(d+e*x)^(5/2)*(a^2+2*a*b*x+b^2*x^2)^2
--E 493

--S 494 of 765
r0:=-2/7*(b*d-a*e)^5*(d+e*x)^(7/2)/e^6+10/9*b*(b*d-a*e)^4*(d+e*x)^(9/2)/e^6-
20/11*b^2*(b*d-a*e)^3*(d+e*x)^(11/2)/e^6+20/13*b^3*(b*d-a*e)^2*(d+
e*x)^(13/2)/e^6-2/3*b^4*(b*d-a*e)*(d+e*x)^(15/2)/e^6+2/17*b^5*(d+
e*x)^(17/2)/e^6
--E 494

--S 495 of 765
d0:=normalize(t0-D(r0,x))
--E 495

)clear all

--S 496 of 765
t0:=(a+b*x)*(d+e*x)^(3/2)*(a^2+2*a*b*x+b^2*x^2)^2
--E 496

--S 497 of 765
r0:=-2/5*(b*d-a*e)^5*(d+e*x)^(5/2)/e^6+10/7*b*(b*d-a*e)^4*(d+e*x)^(7/2)/e^6-
20/9*b^2*(b*d-a*e)^3*(d+e*x)^(9/2)/e^6+20/11*b^3*(b*d-a*e)^2*(d+
e*x)^(11/2)/e^6-10/13*b^4*(b*d-a*e)*(d+e*x)^(13/2)/e^6+2/15*b^5*(d+
e*x)^(15/2)/e^6
--E 497

--S 498 of 765
d0:=normalize(t0-D(r0,x))
--E 498

)clear all

--S 499 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^2*sqrt(d+e*x)
--E 499

--S 500 of 765
r0:=-2/3*(b*d-a*e)^5*(d+e*x)^(3/2)/e^6+2*b*(b*d-a*e)^4*(d+e*x)^(5/2)/e^6-
20/7*b^2*(b*d-a*e)^3*(d+e*x)^(7/2)/e^6+20/9*b^3*(b*d-a*e)^2*(d+

```



```

      e*x)^(9/2)/e^6-10/11*b^4*(b*d-a*e)*(d+e*x)^(11/2)/e^6+2/13*b^5*(d+_
      e*x)^(13/2)/e^6
--E 500

--S 501 of 765
d0:=normalize(t0-D(r0,x))
--E 501

)clear all

--S 502 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^2/sqrt(d+e*x)
--E 502

--S 503 of 765
r0:=10/3*b*(b*d-a*e)^4*(d+e*x)^(3/2)/e^6-4*b^2*(b*d-a*e)^3*(d+e*x)^(5/2)/e^6+_
20/7*b^3*(b*d-a*e)^2*(d+e*x)^(7/2)/e^6-10/9*b^4*(b*d-a*e)*_
(d+e*x)^(9/2)/e^6+2/11*b^5*(d+e*x)^(11/2)/e^6-2*(b*d-a*e)^5*_
sqrt(d+e*x)/e^6
--E 503

--S 504 of 765
d0:=normalize(t0-D(r0,x))
--E 504

)clear all

--S 505 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^2/(d+e*x)^(3/2)
--E 505

--S 506 of 765
r0:=-20/3*b^2*(b*d-a*e)^3*(d+e*x)^(3/2)/e^6+4*b^3*(b*d-a*e)^2*_
(d+e*x)^(5/2)/e^6-10/7*b^4*(b*d-a*e)*(d+e*x)^(7/2)/e^6+2/9*b^5*_
(d+e*x)^(9/2)/e^6+2*(b*d-a*e)^5/(e^6*sqrt(d+e*x))+10*b*(b*d-a*e)^4*_
sqrt(d+e*x)/e^6
--E 506

--S 507 of 765
d0:=normalize(t0-D(r0,x))
--E 507

)clear all

--S 508 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^2/(d+e*x)^(5/2)
--E 508

--S 509 of 765
r0:=2/3*(b*d-a*e)^5/(e^6*(d+e*x)^(3/2))+20/3*b^3*(b*d-a*e)^2*_

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      (d+e*x)^(3/2)/e^6-2*b^4*(b*d-a*e)*(d+e*x)^(5/2)/e^6+2/7*b^5*_
      (d+e*x)^(7/2)/e^6-10*b*(b*d-a*e)^4/(e^6*sqrt(d+e*x))-20*b^2*_
      (b*d-a*e)^3*sqrt(d+e*x)/e^6
--E 509

--S 510 of 765
d0:=normalize(t0-D(r0,x))
--E 510

)clear all

--S 511 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^2/(d+e*x)^(7/2)
--E 511

--S 512 of 765
r0:=2/5*(b*d-a*e)^5/(e^6*(d+e*x)^(5/2))-10/3*b*(b*d-a*e)^4/(e^6*_
(d+e*x)^(3/2))-10/3*b^4*(b*d-a*e)*(d+e*x)^(3/2)/e^6+2/5*b^5*_
(d+e*x)^(5/2)/e^6+20*b^2*(b*d-a*e)^3/(e^6*sqrt(d+e*x))+20*b^3*_
(b*d-a*e)^2*sqrt(d+e*x)/e^6
--E 512

--S 513 of 765
d0:=normalize(t0-D(r0,x))
--E 513

)clear all

--S 514 of 765
t0:=(a+b*x)*(d+e*x)^(7/2)*(a^2+2*a*b*x+b^2*x^2)^3
--E 514

--S 515 of 765
r0:=-2/9*(b*d-a*e)^7*(d+e*x)^(9/2)/e^8+14/11*b*(b*d-a*e)^6*_
(d+e*x)^(11/2)/e^8-42/13*b^2*(b*d-a*e)^5*(d+e*x)^(13/2)/e^8+_
14/3*b^3*(b*d-a*e)^4*(d+e*x)^(15/2)/e^8-70/17*b^4*(b*d-a*e)^3*_
(d+e*x)^(17/2)/e^8+42/19*b^5*(b*d-a*e)^2*(d+e*x)^(19/2)/e^8-_
2/3*b^6*(b*d-a*e)*(d+e*x)^(21/2)/e^8+2/23*b^7*(d+e*x)^(23/2)/e^8
--E 515

--S 516 of 765
d0:=normalize(t0-D(r0,x))
--E 516

)clear all

--S 517 of 765
t0:=(a+b*x)*(d+e*x)^(5/2)*(a^2+2*a*b*x+b^2*x^2)^3
--E 517

```

```

--S 518 of 765
r0:=-2/7*(b*d-a*e)^7*(d+e*x)^(7/2)/e^8+14/9*b*(b*d-a*e)^6*_
(d+e*x)^(9/2)/e^8-42/11*b^2*(b*d-a*e)^5*(d+e*x)^(11/2)/e^8+_
70/13*b^3*(b*d-a*e)^4*(d+e*x)^(13/2)/e^8-14/3*b^4*(b*d-a*e)^3*_
(d+e*x)^(15/2)/e^8+42/17*b^5*(b*d-a*e)^2*(d+e*x)^(17/2)/e^8-_
14/19*b^6*(b*d-a*e)*(d+e*x)^(19/2)/e^8+2/21*b^7*(d+e*x)^(21/2)/e^8
--E 518

--S 519 of 765
d0:=normalize(t0-D(r0,x))
--E 519

)clear all

--S 520 of 765
t0:=(a+b*x)*(d+e*x)^(3/2)*(a^2+2*a*b*x+b^2*x^2)^3
--E 520

--S 521 of 765
r0:=-2/5*(b*d-a*e)^7*(d+e*x)^(5/2)/e^8+2*b*(b*d-a*e)^6*(d+e*x)^(7/2)/e^8-_
14/3*b^2*(b*d-a*e)^5*(d+e*x)^(9/2)/e^8+70/11*b^3*(b*d-a*e)^4*_
(d+e*x)^(11/2)/e^8-70/13*b^4*(b*d-a*e)^3*(d+e*x)^(13/2)/e^8+_
14/5*b^5*(b*d-a*e)^2*(d+e*x)^(15/2)/e^8-14/17*b^6*(b*d-a*e)*_
(d+e*x)^(17/2)/e^8+2/19*b^7*(d+e*x)^(19/2)/e^8
--E 521

--S 522 of 765
d0:=normalize(t0-D(r0,x))
--E 522

)clear all

--S 523 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^3*sqrt(d+e*x)
--E 523

--S 524 of 765
r0:=-2/3*(b*d-a*e)^7*(d+e*x)^(3/2)/e^8+14/5*b*(b*d-a*e)^6*(d+e*x)^(5/2)/e^8-_
6*b^2*(b*d-a*e)^5*(d+e*x)^(7/2)/e^8+70/9*b^3*(b*d-a*e)^4*_
(d+e*x)^(9/2)/e^8-70/11*b^4*(b*d-a*e)^3*(d+e*x)^(11/2)/e^8+42/13*b^5*_
(b*d-a*e)^2*(d+e*x)^(13/2)/e^8-14/15*b^6*(b*d-a*e)*(d+e*x)^(15/2)/e^8+_
2/17*b^7*(d+e*x)^(17/2)/e^8
--E 524

--S 525 of 765
d0:=normalize(t0-D(r0,x))
--E 525

)clear all

```

```

--S 526 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^3/sqrt(d+e*x)
--E 526

--S 527 of 765
r0:=14/3*b*(b*d-a*e)^6*(d+e*x)^(3/2)/e^8-42/5*b^2*(b*d-a*e)^5*_
(d+e*x)^(5/2)/e^8+10*b^3*(b*d-a*e)^4*(d+e*x)^(7/2)/e^8-70/9*b^4*_
(b*d-a*e)^3*(d+e*x)^(9/2)/e^8+42/11*b^5*(b*d-a*e)^2*(d+e*x)^(11/2)/e^8-_
14/13*b^6*(b*d-a*e)*(d+e*x)^(13/2)/e^8+2/15*b^7*(d+e*x)^(15/2)/e^8-_
2*(b*d-a*e)^7*sqrt(d+e*x)/e^8
--E 527

--S 528 of 765
d0:=normalize(t0-D(r0,x))
--E 528

)clear all

--S 529 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^3/(d+e*x)^(3/2)
--E 529

--S 530 of 765
r0:=-14*b^2*(b*d-a*e)^5*(d+e*x)^(3/2)/e^8+14*b^3*(b*d-a*e)^4*_
(d+e*x)^(5/2)/e^8-10*b^4*(b*d-a*e)^3*(d+e*x)^(7/2)/e^8+14/3*b^5*_
(b*d-a*e)^2*(d+e*x)^(9/2)/e^8-14/11*b^6*(b*d-a*e)*(d+e*x)^(11/2)/e^8+_
2/13*b^7*(d+e*x)^(13/2)/e^8+2*(b*d-a*e)^7/(e^8*sqrt(d+e*x))+_
14*b*(b*d-a*e)^6*sqrt(d+e*x)/e^8
--E 530

--S 531 of 765
d0:=normalize(t0-D(r0,x))
--E 531

)clear all

--S 532 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^3/(d+e*x)^(5/2)
--E 532

--S 533 of 765
r0:=2/3*(b*d-a*e)^7/(e^8*(d+e*x)^(3/2))+70/3*b^3*(b*d-a*e)^4*_
(d+e*x)^(3/2)/e^8-14*b^4*(b*d-a*e)^3*(d+e*x)^(5/2)/e^8+6*b^5*_
(b*d-a*e)^2*(d+e*x)^(7/2)/e^8-14/9*b^6*(b*d-a*e)*(d+e*x)^(9/2)/e^8+_
2/11*b^7*(d+e*x)^(11/2)/e^8-14*b*(b*d-a*e)^6/(e^8*sqrt(d+e*x))-_
42*b^2*(b*d-a*e)^5*sqrt(d+e*x)/e^8
--E 533

--S 534 of 765
d0:=normalize(t0-D(r0,x))

```

--E 534

)clear all

--S 535 of 765

t0:=(a+b\*x)\*(a^2+2\*a\*b\*x+b^2\*x^2)^3/(d+e\*x)^(7/2)

--E 535

--S 536 of 765

r0:=2/5\*(b\*d-a\*e)^7/(e^8\*(d+e\*x)^(5/2))-14/3\*b\*(b\*d-a\*e)^6/(e^8\*\_  
(d+e\*x)^(3/2))-70/3\*b^4\*(b\*d-a\*e)^3\*(d+e\*x)^(3/2)/e^8+42/5\*b^5\*\_  
(b\*d-a\*e)^2\*(d+e\*x)^(5/2)/e^8-2\*b^6\*(b\*d-a\*e)\*(d+e\*x)^(7/2)/e^8+\_  
2/9\*b^7\*(d+e\*x)^(9/2)/e^8+42\*b^2\*(b\*d-a\*e)^5/(e^8\*sqrt(d+e\*x))+  
70\*b^3\*(b\*d-a\*e)^4\*sqrt(d+e\*x)/e^8

--E 536

--S 537 of 765

d0:=normalize(t0-D(r0,x))

--E 537

)clear all

--S 538 of 765

t0:=(a+b\*x)\*(d+e\*x)^(7/2)/(a^2+2\*a\*b\*x+b^2\*x^2)

--E 538

--S 539 of 765

r0:=2/3\*(b\*d-a\*e)^2\*(d+e\*x)^(3/2)/b^3+2/5\*(b\*d-a\*e)\*(d+e\*x)^(5/2)/b^2+\_  
2/7\*(d+e\*x)^(7/2)/b-2\*(b\*d-a\*e)^(7/2)\*atanh(sqrt(b)\*sqrt(d+e\*x)/\_  
sqrt(b\*d-a\*e))/b^(9/2)+2\*(b\*d-a\*e)^3\*sqrt(d+e\*x)/b^4

--E 539

--S 540 of 765

d0:=normalize(t0-D(r0,x))

--E 540

)clear all

--S 541 of 765

t0:=(a+b\*x)\*(d+e\*x)^(5/2)/(a^2+2\*a\*b\*x+b^2\*x^2)

--E 541

--S 542 of 765

r0:=2/3\*(b\*d-a\*e)\*(d+e\*x)^(3/2)/b^2+2/5\*(d+e\*x)^(5/2)/b-2\*(b\*d-a\*e)^(5/2)\*\_  
atanh(sqrt(b)\*sqrt(d+e\*x)/sqrt(b\*d-a\*e))/b^(7/2)+2\*(b\*d-a\*e)^2\*\_  
sqrt(d+e\*x)/b^3

--E 542

--S 543 of 765

d0:=normalize(t0-D(r0,x))

```

--E 543

)clear all

--S 544 of 765
t0:=(a+b*x)*(d+e*x)^(3/2)/(a^2+2*a*b*x+b^2*x^2)
--E 544

--S 545 of 765
r0:=2/3*(d+e*x)^(3/2)/b-2*(b*d-a*e)^(3/2)*atanh(sqrt(b)*sqrt(d+e*x)/_
sqrt(b*d-a*e))/b^(5/2)+2*(b*d-a*e)*sqrt(d+e*x)/b^2
--E 545

--S 546 of 765
d0:=normalize(t0-D(r0,x))
--E 546

)clear all

--S 547 of 765
t0:=(a+b*x)*sqrt(d+e*x)/(a^2+2*a*b*x+b^2*x^2)
--E 547

--S 548 of 765
r0:=-2*atanh(sqrt(b)*sqrt(d+e*x)/sqrt(b*d-a*e))*sqrt(b*d-a*e)/b^(3/2)+_
2*sqrt(d+e*x)/b
--E 548

--S 549 of 765
d0:=normalize(t0-D(r0,x))
--E 549

)clear all

--S 550 of 765
t0:=(a+b*x)/((a^2+2*a*b*x+b^2*x^2)*sqrt(d+e*x))
--E 550

--S 551 of 765
r0:=-2*atanh(sqrt(b)*sqrt(d+e*x)/sqrt(b*d-a*e))/(sqrt(b)*sqrt(b*d-a*e))
--E 551

--S 552 of 765
d0:=normalize(t0-D(r0,x))
--E 552

)clear all

--S 553 of 765
t0:=(a+b*x)/((d+e*x)^(3/2)*(a^2+2*a*b*x+b^2*x^2))

```

```

--E 553

--S 554 of 765
r0:=-2*atanh(sqrt(b)*sqrt(d+e*x)/sqrt(b*d-a*e))*sqrt(b)/(b*d-a*e)^(3/2)+_
  2/((b*d-a*e)*sqrt(d+e*x))
--E 554

--S 555 of 765
d0:=normalize(t0-D(r0,x))
--E 555

)clear all

--S 556 of 765
t0:=(a+b*x)/((d+e*x)^(5/2)*(a^2+2*a*b*x+b^2*x^2))
--E 556

--S 557 of 765
r0:=2/3/((b*d-a*e)*(d+e*x)^(3/2))-2*b^(3/2)*atanh(sqrt(b)*sqrt(d+e*x)/_
  sqrt(b*d-a*e))/(b*d-a*e)^(5/2)+2*b/((b*d-a*e)^2*sqrt(d+e*x))
--E 557

--S 558 of 765
d0:=normalize(t0-D(r0,x))
--E 558

)clear all

--S 559 of 765
t0:=(a+b*x)/((d+e*x)^(7/2)*(a^2+2*a*b*x+b^2*x^2))
--E 559

--S 560 of 765
r0:=2/5/((b*d-a*e)*(d+e*x)^(5/2))+2/3*b/((b*d-a*e)^2*(d+e*x)^(3/2))-_
  2*b^(5/2)*atanh(sqrt(b)*sqrt(d+e*x)/sqrt(b*d-a*e))/(b*d-a*e)^(7/2)+_
  2*b^2/((b*d-a*e)^3*sqrt(d+e*x))
--E 560

--S 561 of 765
d0:=normalize(t0-D(r0,x))
--E 561

)clear all

--S 562 of 765
t0:=(a+b*x)*(d+e*x)^(9/2)/(a^2+2*a*b*x+b^2*x^2)^2
--E 562

--S 563 of 765
r0:=21/4*e^2*(b*d-a*e)*(d+e*x)^(3/2)/b^4+63/20*e^2*(d+e*x)^(5/2)/b^3-

```

```

9/4*e*(d+e*x)^(7/2)/(b^2*(a+b*x))-1/2*(d+e*x)^(9/2)/(b*(a+b*x)^2)-
63/4*e^2*(b*d-a*e)^(5/2)*atanh(sqrt(b)*sqrt(d+e*x)/sqrt(b*d-a*e))/
b^(11/2)+63/4*e^2*(b*d-a*e)^2*sqrt(d+e*x)/b^5
--E 563

--S 564 of 765
d0:=normalize(t0-D(r0,x))
--E 564

)clear all

--S 565 of 765
t0:=(a+b*x)*(d+e*x)^(7/2)/(a^2+2*a*b*x+b^2*x^2)^2
--E 565

--S 566 of 765
r0:=35/12*e^2*(d+e*x)^(3/2)/b^3-7/4*e*(d+e*x)^(5/2)/(b^2*(a+b*x))-
1/2*(d+e*x)^(7/2)/(b*(a+b*x)^2)-35/4*e^2*(b*d-a*e)^(3/2)*atanh(sqrt(b)*_
sqrt(d+e*x)/sqrt(b*d-a*e))/b^(9/2)+35/4*e^2*(b*d-a*e)*sqrt(d+e*x)/b^4
--E 566

--S 567 of 765
d0:=normalize(t0-D(r0,x))
--E 567

)clear all

--S 568 of 765
t0:=(a+b*x)*(d+e*x)^(5/2)/(a^2+2*a*b*x+b^2*x^2)^2
--E 568

--S 569 of 765
r0:=-5/4*e*(d+e*x)^(3/2)/(b^2*(a+b*x))-1/2*(d+e*x)^(5/2)/(b*(a+b*x)^2)-
15/4*e^2*atanh(sqrt(b)*sqrt(d+e*x)/sqrt(b*d-a*e))*sqrt(b*d-a*e)/b^(7/2)+
15/4*e^2*sqrt(d+e*x)/b^3
--E 569

--S 570 of 765
d0:=normalize(t0-D(r0,x))
--E 570

)clear all

--S 571 of 765
t0:=(a+b*x)*(d+e*x)^(3/2)/(a^2+2*a*b*x+b^2*x^2)^2
--E 571

--S 572 of 765
r0:=-1/2*(d+e*x)^(3/2)/(b*(a+b*x)^2)-3/4*e^2*atanh(sqrt(b)*sqrt(d+e*x)/_
sqrt(b*d-a*e))/(b^(5/2)*sqrt(b*d-a*e))-3/4*e*sqrt(d+e*x)/(b^2*(a+b*x))

```



```

--E 572

--S 573 of 765
d0:=normalize(t0-D(r0,x))
--E 573

)clear all

--S 574 of 765
t0:=(a+b*x)*sqrt(d+e*x)/(a^2+2*a*b*x+b^2*x^2)^2
--E 574

--S 575 of 765
r0:=1/4*e^2*atanh(sqrt(b)*sqrt(d+e*x)/sqrt(b*d-a*e))/(b^(3/2)*_
(b*d-a*e)^(3/2))-1/2*sqrt(d+e*x)/(b*(a+b*x)^2)-1/4*e*_
sqrt(d+e*x)/(b*(b*d-a*e)*(a+b*x))
--E 575

--S 576 of 765
d0:=normalize(t0-D(r0,x))
--E 576

)clear all

--S 577 of 765
t0:=(a+b*x)/((a^2+2*a*b*x+b^2*x^2)^2*sqrt(d+e*x))
--E 577

--S 578 of 765
r0:=-3/4*e^2*atanh(sqrt(b)*sqrt(d+e*x)/sqrt(b*d-a*e))/((b*d-a*e)^(5/2)*_
sqrt(b))-1/2*sqrt(d+e*x)/((b*d-a*e)*(a+b*x)^2)+3/4*e*sqrt(d+e*x)/_
((b*d-a*e)^2*(a+b*x))
--E 578

--S 579 of 765
d0:=normalize(t0-D(r0,x))
--E 579

)clear all

--S 580 of 765
t0:=(a+b*x)/((d+e*x)^(3/2)*(a^2+2*a*b*x+b^2*x^2)^2)
--E 580

--S 581 of 765
r0:=-15/4*e^2*atanh(sqrt(b)*sqrt(d+e*x)/sqrt(b*d-a*e))*sqrt(b)/_
(b*d-a*e)^(7/2)+15/4*e^2/((b*d-a*e)^3*sqrt(d+e*x))+(-1/2)/((b*d-a*e)*_
(a+b*x)^2*sqrt(d+e*x))+5/4*e/((b*d-a*e)^2*(a+b*x)*sqrt(d+e*x))
--E 581

```

```
--S 582 of 765
d0:=normalize(t0-D(r0,x))
--E 582
```

```
)clear all
```

```
--S 583 of 765
t0:=(a+b*x)/((d+e*x)^(5/2)*(a^2+2*a*b*x+b^2*x^2)^2)
--E 583
```

```
--S 584 of 765
r0:=35/12*e^2/((b*d-a*e)^3*(d+e*x)^(3/2))+(-1/2)/((b*d-a*e)*(a+b*x)^2*_
(d+e*x)^(3/2))+7/4*e/((b*d-a*e)^2*(a+b*x)*(d+e*x)^(3/2))-35/4*b^(3/2)*_
e^2*atanh(sqrt(b)*sqrt(d+e*x)/sqrt(b*d-a*e))/(b*d-a*e)^(9/2)+35/4*b*_
e^2/((b*d-a*e)^4*sqrt(d+e*x))
--E 584
```

```
--S 585 of 765
d0:=normalize(t0-D(r0,x))
--E 585
```

```
)clear all
```

```
--S 586 of 765
t0:=(a+b*x)/((d+e*x)^(7/2)*(a^2+2*a*b*x+b^2*x^2)^2)
--E 586
```

```
--S 587 of 765
r0:=63/20*e^2/((b*d-a*e)^3*(d+e*x)^(5/2))+(-1/2)/((b*d-a*e)*(a+b*x)^2*_
(d+e*x)^(5/2))+9/4*e/((b*d-a*e)^2*(a+b*x)*(d+e*x)^(5/2))+21/4*b*_
e^2/((b*d-a*e)^4*(d+e*x)^(3/2))-63/4*b^(5/2)*e^2*atanh(sqrt(b)*_
sqrt(d+e*x)/sqrt(b*d-a*e))/(b*d-a*e)^(11/2)+63/4*b^2*e^2/((b*d-a*e)^5*_
sqrt(d+e*x))
--E 587
```

```
--S 588 of 765
d0:=normalize(t0-D(r0,x))
--E 588
```

```
)clear all
```

```
--S 589 of 765
t0:=(a+b*x)*(d+e*x)^(11/2)/(a^2+2*a*b*x+b^2*x^2)^3
--E 589
```

```
--S 590 of 765
r0:=385/64*e^4*(d+e*x)^(3/2)/b^5-231/64*e^3*(d+e*x)^(5/2)/(b^4*(a+b*x))-_
33/32*e^2*(d+e*x)^(7/2)/(b^3*(a+b*x)^2)-11/24*e*(d+e*x)^(9/2)/(b^2*_
(a+b*x)^3)-1/4*(d+e*x)^(11/2)/(b*(a+b*x)^4)-1155/64*e^4*(b*d-a*e)^(3/2)*_
atanh(sqrt(b)*sqrt(d+e*x)/sqrt(b*d-a*e))/b^(13/2)+1155/64*e^4*(b*d-
```

```

    a*e)*sqrt(d+e*x)/b^6
--E 590

--S 591 of 765
d0:=normalize(t0-D(r0,x))
--E 591

)clear all

--S 592 of 765
t0:=(a+b*x)*(d+e*x)^(9/2)/(a^2+2*a*b*x+b^2*x^2)^3
--E 592

--S 593 of 765
r0:=-105/64*e^3*(d+e*x)^(3/2)/(b^4*(a+b*x))-21/32*e^2*(d+e*x)^(5/2)/_
(b^3*(a+b*x)^2)-3/8*e*(d+e*x)^(7/2)/(b^2*(a+b*x)^3)-1/4*(d+e*x)^(9/2)/_
(b*(a+b*x)^4)-315/64*e^4*atanh(sqrt(b)*sqrt(d+e*x)/sqrt(b*d-a*e))*_
sqrt(b*d-a*e)/b^(11/2)+315/64*e^4*sqrt(d+e*x)/b^5
--E 593

--S 594 of 765
d0:=normalize(t0-D(r0,x))
--E 594

)clear all

--S 595 of 765
t0:=(a+b*x)*(d+e*x)^(7/2)/(a^2+2*a*b*x+b^2*x^2)^3
--E 595

--S 596 of 765
r0:=-35/96*e^2*(d+e*x)^(3/2)/(b^3*(a+b*x)^2)-7/24*e*(d+e*x)^(5/2)/_
(b^2*(a+b*x)^3)-1/4*(d+e*x)^(7/2)/(b*(a+b*x)^4)-35/64*e^4*_
atanh(sqrt(b)*sqrt(d+e*x)/sqrt(b*d-a*e))/(b^(9/2)*sqrt(b*d-a*e))-_
35/64*e^3*sqrt(d+e*x)/(b^4*(a+b*x))
--E 596

--S 597 of 765
d0:=normalize(t0-D(r0,x))
--E 597

)clear all

--S 598 of 765
t0:=(a+b*x)*(d+e*x)^(5/2)/(a^2+2*a*b*x+b^2*x^2)^3
--E 598

--S 599 of 765
r0:=-5/24*e*(d+e*x)^(3/2)/(b^2*(a+b*x)^3)-1/4*(d+e*x)^(5/2)/(b*(a+b*x)^4)+_
5/64*e^4*atanh(sqrt(b)*sqrt(d+e*x)/sqrt(b*d-a*e))/(b^(7/2))*_

```

```

      (b*d-a*e)^(3/2))-5/32*e^2*sqrt(d+e*x)/(b^3*(a+b*x)^2)-5/64*e^3*_
      sqrt(d+e*x)/(b^3*(b*d-a*e)*(a+b*x))
--E 599

--S 600 of 765
d0:=normalize(t0-D(r0,x))
--E 600

)clear all

--S 601 of 765
t0:=(a+b*x)*(d+e*x)^(3/2)/(a^2+2*a*b*x+b^2*x^2)^3
--E 601

--S 602 of 765
r0:=-1/4*(d+e*x)^(3/2)/(b*(a+b*x)^4)-3/64*e^4*atanh(sqrt(b)*_
      sqrt(d+e*x)/sqrt(b*d-a*e))/(b^(5/2)*(b*d-a*e)^(5/2))-1/8*e*_
      sqrt(d+e*x)/(b^2*(a+b*x)^3)-1/32*e^2*sqrt(d+e*x)/(b^2*(b*d-a*e)*_
      (a+b*x)^2)+3/64*e^3*sqrt(d+e*x)/(b^2*(b*d-a*e)^2*(a+b*x))
--E 602

--S 603 of 765
d0:=normalize(t0-D(r0,x))
--E 603

)clear all

--S 604 of 765
t0:=(a+b*x)*sqrt(d+e*x)/(a^2+2*a*b*x+b^2*x^2)^3
--E 604

--S 605 of 765
r0:=5/64*e^4*atanh(sqrt(b)*sqrt(d+e*x)/sqrt(b*d-a*e))/(b^(3/2)*_
      (b*d-a*e)^(7/2))-1/4*sqrt(d+e*x)/(b*(a+b*x)^4)-1/24*e*sqrt(d+e*x)/_
      (b*(b*d-a*e)*(a+b*x)^3)+5/96*e^2*sqrt(d+e*x)/(b*(b*d-a*e)^2*(a+b*x)^2)-_
      5/64*e^3*sqrt(d+e*x)/(b*(b*d-a*e)^3*(a+b*x))
--E 605

--S 606 of 765
d0:=normalize(t0-D(r0,x))
--E 606

)clear all

--S 607 of 765
t0:=(a+b*x)/((a^2+2*a*b*x+b^2*x^2)^3*sqrt(d+e*x))
--E 607

--S 608 of 765
r0:=-35/64*e^4*atanh(sqrt(b)*sqrt(d+e*x)/sqrt(b*d-a*e))/((b*d-a*e)^(9/2)*_

```

```

sqrt(b))-1/4*sqrt(d+e*x)/((b*d-a*e)*(a+b*x)^4)+7/24*e*sqrt(d+e*x)/_
((b*d-a*e)^2*(a+b*x)^3)-35/96*e^2*sqrt(d+e*x)/((b*d-a*e)^3*(a+b*x)^2)+_
35/64*e^3*sqrt(d+e*x)/((b*d-a*e)^4*(a+b*x))
--E 608

--S 609 of 765
d0:=normalize(t0-D(r0,x))
--E 609

)clear all

--S 610 of 765
t0:=(a+b*x)/((d+e*x)^(3/2)*(a^2+2*a*b*x+b^2*x^2)^3)
--E 610

--S 611 of 765
r0:=-315/64*e^4*atanh(sqrt(b)*sqrt(d+e*x)/sqrt(b*d-a*e))*sqrt(b)/(b*d-_
a*e)^(11/2)+315/64*e^4/((b*d-a*e)^5*sqrt(d+e*x))+(-1/4)/((b*d-a*e)*_
(a+b*x)^4*sqrt(d+e*x))+3/8*e/((b*d-a*e)^2*(a+b*x)^3*sqrt(d+e*x))-_
21/32*e^2/((b*d-a*e)^3*(a+b*x)^2*sqrt(d+e*x))+105/64*e^3/((b*d-a*e)^4*_
(a+b*x)*sqrt(d+e*x))
--E 611

--S 612 of 765
d0:=normalize(t0-D(r0,x))
--E 612

)clear all

--S 613 of 765
t0:=(a+b*x)/((d+e*x)^(5/2)*(a^2+2*a*b*x+b^2*x^2)^3)
--E 613

--S 614 of 765
r0:=385/64*e^4/((b*d-a*e)^5*(d+e*x)^(3/2))+(-1/4)/((b*d-a*e)*(a+b*x)^4*_
(d+e*x)^(3/2))+11/24*e/((b*d-a*e)^2*(a+b*x)^3*(d+e*x)^(3/2))-_
33/32*e^2/((b*d-a*e)^3*(a+b*x)^2*(d+e*x)^(3/2))+231/64*e^3/((b*d-a*e)^4*_
(a+b*x)*(d+e*x)^(3/2))-1155/64*b^(3/2)*e^4*atanh(sqrt(b)*sqrt(d+e*x)/_
sqrt(b*d-a*e))/(b*d-a*e)^(13/2)+1155/64*b*e^4/((b*d-a*e)^6*sqrt(d+e*x))
--E 614

--S 615 of 765
d0:=normalize(t0-D(r0,x))
--E 615

)clear all

--S 616 of 765
t0:=(a+b*x)*(d+e*x)^(7/2)*sqrt(a^2+2*a*b*x+b^2*x^2)
--E 616

```

```

--S 617 of 765
r0:=-8/143*(b*d-a*e)*(d+e*x)^(9/2)*sqrt(a^2+2*a*b*x+b^2*x^2)/e^2+_
16/1287*(b*d-a*e)^2*(d+e*x)^(9/2)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^3*(a+_
b*x))+2/13*(a+b*x)*(d+e*x)^(9/2)*sqrt(a^2+2*a*b*x+b^2*x^2)/e
--E 617

--S 618 of 765
d0:=normalize(t0-D(r0,x))
--E 618

)clear all

--S 619 of 765
t0:=(a+b*x)*(d+e*x)^(5/2)*sqrt(a^2+2*a*b*x+b^2*x^2)
--E 619

--S 620 of 765
r0:=-8/99*(b*d-a*e)*(d+e*x)^(7/2)*sqrt(a^2+2*a*b*x+b^2*x^2)/e^2+_
16/693*(b*d-a*e)^2*(d+e*x)^(7/2)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^3*(a+_
b*x))+2/11*(a+b*x)*(d+e*x)^(7/2)*sqrt(a^2+2*a*b*x+b^2*x^2)/e
--E 620

--S 621 of 765
d0:=normalize(t0-D(r0,x))
--E 621

)clear all

--S 622 of 765
t0:=(a+b*x)*(d+e*x)^(3/2)*sqrt(a^2+2*a*b*x+b^2*x^2)
--E 622

--S 623 of 765
r0:=-8/63*(b*d-a*e)*(d+e*x)^(5/2)*sqrt(a^2+2*a*b*x+b^2*x^2)/e^2+_
16/315*(b*d-a*e)^2*(d+e*x)^(5/2)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^3*(a+b*x))+_
2/9*(a+b*x)*(d+e*x)^(5/2)*sqrt(a^2+2*a*b*x+b^2*x^2)/e
--E 623

--S 624 of 765
d0:=normalize(t0-D(r0,x))
--E 624

)clear all

--S 625 of 765
t0:=(a+b*x)*sqrt(d+e*x)*sqrt(a^2+2*a*b*x+b^2*x^2)
--E 625

--S 626 of 765

```

```

r0:=-8/35*(b*d-a*e)*(d+e*x)^(3/2)*sqrt(a^2+2*a*b*x+b^2*x^2)/e^2+_
16/105*(b*d-a*e)^2*(d+e*x)^(3/2)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^3*(a+b*x))+_
2/7*(a+b*x)*(d+e*x)^(3/2)*sqrt(a^2+2*a*b*x+b^2*x^2)/e
--E 626

--S 627 of 765
d0:=normalize(t0-D(r0,x))
--E 627

)clear all

--S 628 of 765
t0:=(a+b*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/sqrt(d+e*x)
--E 628

--S 629 of 765
r0:=-8/15*(b*d-a*e)*sqrt(d+e*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/e^2+16/15*(b*d-_
a*e)^2*sqrt(d+e*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^3*(a+b*x))+2/5*(a+b*x)*_
sqrt(d+e*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/e
--E 629

--S 630 of 765
d0:=normalize(t0-D(r0,x))
--E 630

)clear all

--S 631 of 765
t0:=(a+b*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/(d+e*x)^(3/2)
--E 631

--S 632 of 765
r0:=-2*(a+b*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e*sqrt(d+e*x))+8/3*b*sqrt(d+e*x)*_
sqrt(a^2+2*a*b*x+b^2*x^2)/e^2-16/3*b*(b*d-a*e)*sqrt(d+e*x)*sqrt(a^2+_
2*a*b*x+b^2*x^2)/(e^3*(a+b*x))
--E 632

--S 633 of 765
d0:=normalize(t0-D(r0,x))
--E 633

)clear all

--S 634 of 765
t0:=(a+b*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/(d+e*x)^(5/2)
--E 634

--S 635 of 765
r0:=-2/3*(a+b*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e*(d+e*x)^(3/2))+8/3*b*_
sqrt(a^2+2*a*b*x+b^2*x^2)/(e^2*sqrt(d+e*x))+16/3*b*(b*d-a*e)*sqrt(a^2+_

```

```

2*a*b*x+b^2*x^2)/(e^3*(a+b*x)*sqrt(d+e*x))
--E 635

--S 636 of 765
d0:=normalize(t0-D(r0,x))
--E 636

)clear all

--S 637 of 765
t0:=(a+b*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/(d+e*x)^(7/2)
--E 637

--S 638 of 765
r0:=-2/5*(a+b*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e*(d+e*x)^(5/2))-8/5*b*_
sqrt(a^2+2*a*b*x+b^2*x^2)/(e^2*(d+e*x)^(3/2))-16/15*b*(b*d-a*e)*_
sqrt(a^2+2*a*b*x+b^2*x^2)/(e^3*(a+b*x)*(d+e*x)^(3/2))
--E 638

--S 639 of 765
d0:=normalize(t0-D(r0,x))
--E 639

)clear all

--S 640 of 765
t0:=(a+b*x)*(d+e*x)^(5/2)*(a^2+2*a*b*x+b^2*x^2)^(3/2)
--E 640

--S 641 of 765
r0:=-16/195*(b*d-a*e)*(d+e*x)^(7/2)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/e^2+_
2/15*(a+b*x)*(d+e*x)^(7/2)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/e-128/6435*(b*d-_
a*e)^3*(d+e*x)^(7/2)*sqrt(a^2+2*a*b*x+b^2*x^2)/e^4+256/45045*(b*d-_
a*e)^4*(d+e*x)^(7/2)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^5*(a+b*x))+_
32/715*(b*d-a*e)^2*(a+b*x)*(d+e*x)^(7/2)*sqrt(a^2+2*a*b*x+b^2*x^2)/e^3
--E 641

--S 642 of 765
d0:=normalize(t0-D(r0,x))
--E 642

)clear all

--S 643 of 765
t0:=(a+b*x)*(d+e*x)^(3/2)*(a^2+2*a*b*x+b^2*x^2)^(3/2)
--E 643

--S 644 of 765
r0:=-16/143*(b*d-a*e)*(d+e*x)^(5/2)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/e^2+_
2/13*(a+b*x)*(d+e*x)^(5/2)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/e-128/3003*_

```



```

      (b*d-a*e)^3*(d+e*x)^(5/2)*sqrt(a^2+2*a*b*x+b^2*x^2)/e^4+256/15015*_
      (b*d-a*e)^4*(d+e*x)^(5/2)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^5*(a+b*x))+_
      32/429*(b*d-a*e)^2*(a+b*x)*(d+e*x)^(5/2)*sqrt(a^2+2*a*b*x+b^2*x^2)/e^3
--E 644

```

```

--S 645 of 765
d0:=normalize(t0-D(r0,x))
--E 645

```

```

)clear all

```

```

--S 646 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)*sqrt(d+e*x)
--E 646

```

```

--S 647 of 765
r0:=-16/99*(b*d-a*e)*(d+e*x)^(3/2)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/e^2+_
      2/11*(a+b*x)*(d+e*x)^(3/2)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/e-128/1155*_
      (b*d-a*e)^3*(d+e*x)^(3/2)*sqrt(a^2+2*a*b*x+b^2*x^2)/e^4+256/3465*_
      (b*d-a*e)^4*(d+e*x)^(3/2)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^5*(a+b*x))+_
      32/231*(b*d-a*e)^2*(a+b*x)*(d+e*x)^(3/2)*sqrt(a^2+2*a*b*x+b^2*x^2)/e^3
--E 647

```

```

--S 648 of 765
d0:=normalize(t0-D(r0,x))
--E 648

```

```

)clear all

```

```

--S 649 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/sqrt(d+e*x)
--E 649

```

```

--S 650 of 765
r0:=-16/63*(b*d-a*e)*(a^2+2*a*b*x+b^2*x^2)^(3/2)*sqrt(d+e*x)/e^2+_
      2/9*(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)*sqrt(d+e*x)/e-_
      128/315*(b*d-a*e)^3*sqrt(d+e*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/e^4+_
      256/315*(b*d-a*e)^4*sqrt(d+e*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^5*(a+b*x))+_
      32/105*(b*d-a*e)^2*(a+b*x)*sqrt(d+e*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/e^3
--E 650

```

```

--S 651 of 765
d0:=normalize(t0-D(r0,x))
--E 651

```

```

)clear all

```

```

--S 652 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(d+e*x)^(3/2)
--E 652

```

```

--S 653 of 765
r0:=-2*(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e*sqrt(d+e*x))+16/7*b*_
(a^2+2*a*b*x+b^2*x^2)^(3/2)*sqrt(d+e*x)/e^2+128/35*b*(b*d-a*e)^2*_
sqrt(d+e*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/e^4-256/35*b*(b*d-a*e)^3*_
sqrt(d+e*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^5*(a+b*x))-96/35*b*(b*d-a*e)*_
(a+b*x)*sqrt(d+e*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/e^3
--E 653

--S 654 of 765
d0:=normalize(t0-D(r0,x))
--E 654

)clear all

--S 655 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(d+e*x)^(5/2)
--E 655

--S 656 of 765
r0:=-2/3*(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e*(d+e*x)^(3/2))-_
16/3*b*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e^2*sqrt(d+e*x))-_
128/15*b^2*(b*d-a*e)*sqrt(d+e*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/e^4+_
256/15*b^2*(b*d-a*e)^2*sqrt(d+e*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^5*_
(a+b*x))+32/5*b^2*(a+b*x)*sqrt(d+e*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/e^3
--E 656

--S 657 of 765
d0:=normalize(t0-D(r0,x))
--E 657

)clear all

--S 658 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(d+e*x)^(7/2)
--E 658

--S 659 of 765
r0:=-2/5*(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e*(d+e*x)^(5/2))-_
16/15*b*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e^2*(d+e*x)^(3/2))-32/5*b^2*_
(a+b*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^3*sqrt(d+e*x))+128/15*b^3*_
sqrt(d+e*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/e^4-256/15*b^3*(b*d-a*e)*_
sqrt(d+e*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^5*(a+b*x))
--E 659

--S 660 of 765
d0:=normalize(t0-D(r0,x))
--E 660

)clear all

```

```

--S 661 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(d+e*x)^(9/2)
--E 661

--S 662 of 765
r0:=-2/7*(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e*(d+e*x)^(7/2))-
16/35*b*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e^2*(d+e*x)^(5/2))-
32/35*b^2*(a+b*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^3*(d+e*x)^(3/2))+
128/35*b^3*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^4*sqrt(d+e*x))+
256/35*b^3*(b*d-a*e)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^5*(a+b*x)*sqrt(d+e*x))
--E 662

--S 663 of 765
d0:=normalize(t0-D(r0,x))
--E 663

)clear all

--S 664 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(d+e*x)^(11/2)
--E 664

--S 665 of 765
r0:=-2/9*(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e*(d+e*x)^(9/2))-
16/63*b*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e^2*(d+e*x)^(7/2))-
32/105*b^2*(a+b*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^3*(d+e*x)^(5/2))-
128/105*b^3*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^4*(d+e*x)^(3/2))-
256/315*b^3*(b*d-a*e)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^5*(a+b*x)*(d+e*x)^(3/2))
--E 665

--S 666 of 765
d0:=normalize(t0-D(r0,x))
--E 666

)clear all

--S 667 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(d+e*x)^(13/2)
--E 667

--S 668 of 765
r0:=-2/11*(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e*(d+e*x)^(11/2))-
16/99*b*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e^2*(d+e*x)^(9/2))-32/231*b^2*_
(a+b*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^3*(d+e*x)^(7/2))-128/693*b^3*_
sqrt(a^2+2*a*b*x+b^2*x^2)/(e^4*(d+e*x)^(5/2))-256/3465*b^3*(b*d-a*e)*_
sqrt(a^2+2*a*b*x+b^2*x^2)/(e^5*(a+b*x)*(d+e*x)^(5/2))
--E 668

--S 669 of 765

```

```

d0:=normalize(t0-D(r0,x))
--E 669

)clear all

--S 670 of 765
t0:=(a+b*x)*(d+e*x)^(5/2)*(a^2+2*a*b*x+b^2*x^2)^(5/2)
--E 670

--S 671 of 765
r0:=-128/4199*(b*d-a*e)^3*(d+e*x)^(7/2)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/e^4+_
16/323*(b*d-a*e)^2*(a+b*x)*(d+e*x)^(7/2)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/e^3-_
24/323*(b*d-a*e)*(d+e*x)^(7/2)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/e^2+19*_
(a+b*x)*(d+e*x)^(7/2)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/e-1024/138567*(b*d-_
a*e)^5*(d+e*x)^(7/2)*sqrt(a^2+2*a*b*x+b^2*x^2)/e^6+2048/969969*(b*d-_
a*e)^6*(d+e*x)^(7/2)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^7*(a+b*x))+768/46189*_
(b*d-a*e)^4*(a+b*x)*(d+e*x)^(7/2)*sqrt(a^2+2*a*b*x+b^2*x^2)/e^5
--E 671

--S 672 of 765
d0:=normalize(t0-D(r0,x))
--E 672

)clear all

--S 673 of 765
t0:=(a+b*x)*(d+e*x)^(3/2)*(a^2+2*a*b*x+b^2*x^2)^(5/2)
--E 673

--S 674 of 765
r0:=-128/2431*(b*d-a*e)^3*(d+e*x)^(5/2)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/e^4+_
16/221*(b*d-a*e)^2*(a+b*x)*(d+e*x)^(5/2)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/e^3-_
8/85*(b*d-a*e)*(d+e*x)^(5/2)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/e^2+17*(a+_
b*x)*(d+e*x)^(5/2)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/e-1024/51051*(b*d-a*e)^5*_
(d+e*x)^(5/2)*sqrt(a^2+2*a*b*x+b^2*x^2)/e^6+2048/255255*(b*d-a*e)^6*(d+_
e*x)^(5/2)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^7*(a+b*x))+256/7293*(b*d-a*e)^4*_
(a+b*x)*(d+e*x)^(5/2)*sqrt(a^2+2*a*b*x+b^2*x^2)/e^5
--E 674

--S 675 of 765
d0:=normalize(t0-D(r0,x))
--E 675

)clear all

--S 676 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)*sqrt(d+e*x)
--E 676

--S 677 of 765

```

```

r0:=-128/1287*(b*d-a*e)^3*(d+e*x)^(3/2)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/e^4+_
16/143*(b*d-a*e)^2*(a+b*x)*(d+e*x)^(3/2)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/e^3-_
8/65*(b*d-a*e)*(d+e*x)^(3/2)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/e^2+2/15*(a+_
b*x)*(d+e*x)^(3/2)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/e-1024/15015*(b*d-_
a*e)^5*(d+e*x)^(3/2)*sqrt(a^2+2*a*b*x+b^2*x^2)/e^6+2048/45045*(b*d-_
a*e)^6*(d+e*x)^(3/2)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^7*(a+b*x))+_
256/3003*(b*d-a*e)^4*(a+b*x)*(d+e*x)^(3/2)*sqrt(a^2+2*a*b*x+b^2*x^2)/e^5
--E 677

--S 678 of 765
d0:=normalize(t0-D(r0,x))
--E 678

)clear all

--S 679 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/sqrt(d+e*x)
--E 679

--S 680 of 765
r0:=-640/3003*(b*d-a*e)^3*(a^2+2*a*b*x+b^2*x^2)^(3/2)*sqrt(d+e*x)/e^4+_
80/429*(b*d-a*e)^2*(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)*sqrt(d+e*x)/e^3-_
24/143*(b*d-a*e)*(a^2+2*a*b*x+b^2*x^2)^(5/2)*sqrt(d+e*x)/e^2+2/13*(a+_
b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)*sqrt(d+e*x)/e-1024/3003*(b*d-a*e)^5*_
sqrt(d+e*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/e^6+2048/3003*(b*d-a*e)^6*_
sqrt(d+e*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/(e^7*(a+b*x))+256/1001*(b*d-_
a*e)^4*(a+b*x)*sqrt(d+e*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/e^5
--E 680

--S 681 of 765
d0:=normalize(t0-D(r0,x))
--E 681

)clear all

--S 682 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/(d+e*x)^(3/2)
--E 682

--S 683 of 765
r0:=-2*(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/(e*sqrt(d+e*x))+640/231*b*(b*d-_
a*e)^2*(a^2+2*a*b*x+b^2*x^2)^(3/2)*sqrt(d+e*x)/e^4-80/33*b*(b*d-a*e)*_
(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)*sqrt(d+e*x)/e^3+24/11*b*(a^2+_
2*a*b*x+b^2*x^2)^(5/2)*sqrt(d+e*x)/e^2+1024/231*b*(b*d-a*e)^4*sqrt(d+_
e*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/e^6-2048/231*b*(b*d-a*e)^5*sqrt(d+e*x)*_
sqrt(a^2+2*a*b*x+b^2*x^2)/(e^7*(a+b*x))-256/77*b*(b*d-a*e)^3*(a+b*x)*_
sqrt(d+e*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/e^5
--E 683

--S 684 of 765

```

```

d0:=normalize(t0-D(r0,x))
--E 684

)clear all

--S 685 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/(d+e*x)^(5/2)
--E 685

--S 686 of 765
r0:=-2/3*(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/(e*(d+e*x)^(3/2))-8*b*_
(a^2+2*a*b*x+b^2*x^2)^(5/2)/(e^2*sqrt(d+e*x))-640/63*b^2*(b*d-a*e)*_
(a^2+2*a*b*x+b^2*x^2)^(3/2)*sqrt(d+e*x)/e^4+80/9*b^2*(a+b*x)*(a^2+_
2*a*b*x+b^2*x^2)^(3/2)*sqrt(d+e*x)/e^3-1024/63*b^2*(b*d-a*e)^3*sqrt(d+_
e*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/e^6+2048/63*b^2*(b*d-a*e)^4*sqrt(d+e*x)*_
sqrt(a^2+2*a*b*x+b^2*x^2)/(e^7*(a+b*x))+256/21*b^2*(b*d-a*e)^2*(a+b*x)*_
sqrt(d+e*x)*sqrt(a^2+2*a*b*x+b^2*x^2)/e^5
--E 686

--S 687 of 765
d0:=normalize(t0-D(r0,x))
--E 687

)clear all

--S 688 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/(d+e*x)^(7/2)
--E 688

--S 689 of 765
r0:=-2/5*(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/(e*(d+e*x)^(5/2))-8/5*b*(a^2+_
2*a*b*x+b^2*x^2)^(5/2)/(e^2*(d+e*x)^(3/2))-16*b^2*(a+b*x)*(a^2+2*a*b*x+_
b^2*x^2)^(3/2)/(e^3*sqrt(d+e*x))+128/7*b^3*(a^2+2*a*b*x+b^2*x^2)^(3/2)*_
sqrt(d+e*x)/e^4+1024/35*b^3*(b*d-a*e)^2*sqrt(d+e*x)*sqrt(a^2+2*a*b*x+_
b^2*x^2)/e^6-2048/35*b^3*(b*d-a*e)^3*sqrt(d+e*x)*sqrt(a^2+2*a*b*x+_
b^2*x^2)/(e^7*(a+b*x))-768/35*b^3*(b*d-a*e)*(a+b*x)*sqrt(d+e*x)*_
sqrt(a^2+2*a*b*x+b^2*x^2)/e^5
--E 689

--S 690 of 765
d0:=normalize(t0-D(r0,x))
--E 690

)clear all

--S 691 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/(d+e*x)^(9/2)
--E 691

--S 692 of 765

```

```

r0:=-16/7*b^2*(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e^3*(d+e*x)^(3/2))-
  2/7*(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/(e*(d+e*x)^(7/2))-24/35*b*(a^2+
  2*a*b*x+b^2*x^2)^(5/2)/(e^2*(d+e*x)^(5/2))-128/7*b^3*(a^2+2*a*b*x+
  b^2*x^2)^(3/2)/(e^4*sqrt(d+e*x))-1024/35*b^4*(b*d-a*e)*sqrt(d+e*x)*
  sqrt(a^2+2*a*b*x+b^2*x^2)/e^6+2048/35*b^4*(b*d-a*e)^2*sqrt(d+e*x)*
  sqrt(a^2+2*a*b*x+b^2*x^2)/(e^7*(a+b*x))+768/35*b^4*(a+b*x)*sqrt(d+e*x)*
  sqrt(a^2+2*a*b*x+b^2*x^2)/e^5
--E 692

--S 693 of 765
d0:=normalize(t0-D(r0,x))
--E 693

)clear all

--S 694 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/(d+e*x)^(11/2)
--E 694

--S 695 of 765
r0:=-16/21*b^2*(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e^3*(d+e*x)^(5/2))-
  128/63*b^3*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e^4*(d+e*x)^(3/2))-2/9*(a+b*x)*
  (a^2+2*a*b*x+b^2*x^2)^(5/2)/(e*(d+e*x)^(9/2))-8/21*b*(a^2+2*a*b*x+
  b^2*x^2)^(5/2)/(e^2*(d+e*x)^(7/2))-256/21*b^4*(a+b*x)*sqrt(a^2+2*a*b*x+
  b^2*x^2)/(e^5*sqrt(d+e*x))+1024/63*b^5*sqrt(d+e*x)*sqrt(a^2+2*a*b*x+
  b^2*x^2)/e^6-2048/63*b^5*(b*d-a*e)*sqrt(d+e*x)*sqrt(a^2+2*a*b*x+
  b^2*x^2)/(e^7*(a+b*x))
--E 695

--S 696 of 765
d0:=normalize(t0-D(r0,x))
--E 696

)clear all

--S 697 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/(d+e*x)^(13/2)
--E 697

--S 698 of 765
r0:=-80/231*b^2*(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e^3*(d+e*x)^(7/2))-
  128/231*b^3*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e^4*(d+e*x)^(5/2))-2/11*(a+
  b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/(e*(d+e*x)^(11/2))-8/33*b*(a^2+
  2*a*b*x+b^2*x^2)^(5/2)/(e^2*(d+e*x)^(9/2))-256/231*b^4*(a+b*x)*
  sqrt(a^2+2*a*b*x+b^2*x^2)/(e^5*(d+e*x)^(3/2))+1024/231*b^5*sqrt(a^2+
  2*a*b*x+b^2*x^2)/(e^6*sqrt(d+e*x))+2048/231*b^5*(b*d-a*e)*sqrt(a^2+
  2*a*b*x+b^2*x^2)/(e^7*(a+b*x)*sqrt(d+e*x))
--E 698

--S 699 of 765

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```

d0:=normalize(t0-D(r0,x))
--E 699

)clear all

--S 700 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/(d+e*x)^(15/2)
--E 700

--S 701 of 765
r0:=-80/429*b^2*(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e^3*(d+e*x)^(9/2))-
640/3003*b^3*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e^4*(d+e*x)^(7/2))-2/13*(a+
b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/(e*(d+e*x)^(13/2))-24/143*b*(a^2+
2*a*b*x+b^2*x^2)^(5/2)/(e^2*(d+e*x)^(11/2))-256/1001*b^4*(a+b*x)*
sqrt(a^2+2*a*b*x+b^2*x^2)/(e^5*(d+e*x)^(5/2))-1024/1001*b^5*sqrt(a^2+
2*a*b*x+b^2*x^2)/(e^6*(d+e*x)^(3/2))-2048/3003*b^5*(b*d-a*e)*sqrt(a^2+
2*a*b*x+b^2*x^2)/(e^7*(a+b*x)*(d+e*x)^(3/2))
--E 701

--S 702 of 765
d0:=normalize(t0-D(r0,x))
--E 702

)clear all

--S 703 of 765
t0:=(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/(d+e*x)^(17/2)
--E 703

--S 704 of 765
r0:=-16/143*b^2*(a+b*x)*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e^3*(d+e*x)^(11/2))-
128/1287*b^3*(a^2+2*a*b*x+b^2*x^2)^(3/2)/(e^4*(d+e*x)^(9/2))-2/15*(a+
b*x)*(a^2+2*a*b*x+b^2*x^2)^(5/2)/(e*(d+e*x)^(15/2))-8/65*b*(a^2+
2*a*b*x+b^2*x^2)^(5/2)/(e^2*(d+e*x)^(13/2))-256/3003*b^4*(a+b*x)*
sqrt(a^2+2*a*b*x+b^2*x^2)/(e^5*(d+e*x)^(7/2))-1024/9009*b^5*sqrt(a^2+
2*a*b*x+b^2*x^2)/(e^6*(d+e*x)^(5/2))-2048/45045*b^5*(b*d-a*e)*sqrt(a^2+
2*a*b*x+b^2*x^2)/(e^7*(a+b*x)*(d+e*x)^(5/2))
--E 704

--S 705 of 765
d0:=normalize(t0-D(r0,x))
--E 705

)clear all

--S 706 of 765
t0:=(a+b*x)*(d+e*x)^(7/2)/sqrt(a^2+2*a*b*x+b^2*x^2)
--E 706

--S 707 of 765

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r0:=2/9*(a+b*x)*(d+e*x)^(9/2)/(e*sqrt(a^2+2*a*b*x+b^2*x^2))
--E 707

--S 708 of 765
d0:=normalize(t0-D(r0,x))
--E 708

)clear all

--S 709 of 765
t0:=(a+b*x)*(d+e*x)^(5/2)/sqrt(a^2+2*a*b*x+b^2*x^2)
--E 709

--S 710 of 765
r0:=2/7*(a+b*x)*(d+e*x)^(7/2)/(e*sqrt(a^2+2*a*b*x+b^2*x^2))
--E 710

--S 711 of 765
d0:=normalize(t0-D(r0,x))
--E 711

)clear all

--S 712 of 765
t0:=(a+b*x)*(d+e*x)^(3/2)/sqrt(a^2+2*a*b*x+b^2*x^2)
--E 712

--S 713 of 765
r0:=2/5*(a+b*x)*(d+e*x)^(5/2)/(e*sqrt(a^2+2*a*b*x+b^2*x^2))
--E 713

--S 714 of 765
d0:=normalize(t0-D(r0,x))
--E 714

)clear all

--S 715 of 765
t0:=(a+b*x)*sqrt(d+e*x)/sqrt(a^2+2*a*b*x+b^2*x^2)
--E 715

--S 716 of 765
r0:=2/3*(a+b*x)*(d+e*x)^(3/2)/(e*sqrt(a^2+2*a*b*x+b^2*x^2))
--E 716

--S 717 of 765
d0:=normalize(t0-D(r0,x))
--E 717

)clear all

```

```

--S 718 of 765
t0:=(a+b*x)/(sqrt(d+e*x)*sqrt(a^2+2*a*b*x+b^2*x^2))
--E 718

--S 719 of 765
r0:=2*(a+b*x)*sqrt(d+e*x)/(e*sqrt(a^2+2*a*b*x+b^2*x^2))
--E 719

--S 720 of 765
d0:=normalize(t0-D(r0,x))
--E 720

)clear all

--S 721 of 765
t0:=(a+b*x)/((d+e*x)^(3/2)*sqrt(a^2+2*a*b*x+b^2*x^2))
--E 721

--S 722 of 765
r0:=-2*(a+b*x)/(e*sqrt(d+e*x)*sqrt(a^2+2*a*b*x+b^2*x^2))
--E 722

--S 723 of 765
d0:=normalize(t0-D(r0,x))
--E 723

)clear all

--S 724 of 765
t0:=(a+b*x)/((d+e*x)^(5/2)*sqrt(a^2+2*a*b*x+b^2*x^2))
--E 724

--S 725 of 765
r0:=-2/3*(a+b*x)/(e*(d+e*x)^(3/2)*sqrt(a^2+2*a*b*x+b^2*x^2))
--E 725

--S 726 of 765
d0:=normalize(t0-D(r0,x))
--E 726

)clear all

--S 727 of 765
t0:=(a+b*x)/((d+e*x)^(7/2)*sqrt(a^2+2*a*b*x+b^2*x^2))
--E 727

--S 728 of 765
r0:=-2/5*(a+b*x)/(e*(d+e*x)^(5/2)*sqrt(a^2+2*a*b*x+b^2*x^2))
--E 728

```

```

--S 729 of 765
d0:=normalize(t0-D(r0,x))
--E 729

)clear all

--S 730 of 765
t0:=(a+b*x)*(d+e*x)^(7/2)/(a^2+2*a*b*x+b^2*x^2)^(3/2)
--E 730

--S 731 of 765
r0:=7/3*e*(b*d-a*e)*(a+b*x)*(d+e*x)^(3/2)/(b^3*sqrt(a^2+2*a*b*x+b^2*x^2))+_
7/5*e*(a+b*x)*(d+e*x)^(5/2)/(b^2*sqrt(a^2+2*a*b*x+b^2*x^2))-_
(d+e*x)^(7/2)/(b*sqrt(a^2+2*a*b*x+b^2*x^2))-7*e*(b*d-a*e)^(5/2)*(a+b*x)*_
atanh(sqrt(b)*sqrt(d+e*x)/sqrt(b*d-a*e))/(b^(9/2)*sqrt(a^2+2*a*b*x+_
b^2*x^2))+7*e*(b*d-a*e)^2*(a+b*x)*sqrt(d+e*x)/(b^4*sqrt(a^2+2*a*b*x+_
b^2*x^2))
--E 731

--S 732 of 765
d0:=normalize(t0-D(r0,x))
--E 732

)clear all

--S 733 of 765
t0:=(a+b*x)*(d+e*x)^(5/2)/(a^2+2*a*b*x+b^2*x^2)^(3/2)
--E 733

--S 734 of 765
r0:=5/3*e*(a+b*x)*(d+e*x)^(3/2)/(b^2*sqrt(a^2+2*a*b*x+b^2*x^2))-_
(d+e*x)^(5/2)/(b*sqrt(a^2+2*a*b*x+b^2*x^2))-5*e*(b*d-a*e)^(3/2)*_
(a+b*x)*atanh(sqrt(b)*sqrt(d+e*x)/sqrt(b*d-a*e))/(b^(7/2)*sqrt(a^2+_
2*a*b*x+b^2*x^2))+5*e*(b*d-a*e)*(a+b*x)*sqrt(d+e*x)/(b^3*sqrt(a^2+_
2*a*b*x+b^2*x^2))
--E 734

--S 735 of 765
d0:=normalize(t0-D(r0,x))
--E 735

)clear all

--S 736 of 765
t0:=(a+b*x)*(d+e*x)^(3/2)/(a^2+2*a*b*x+b^2*x^2)^(3/2)
--E 736

--S 737 of 765
r0:=- (d+e*x)^(3/2)/(b*sqrt(a^2+2*a*b*x+b^2*x^2))-3*e*(a+b*x)*atanh(sqrt(b)*_

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sqrt(d+e*x)/sqrt(b*d-a*e))*sqrt(b*d-a*e)/(b^(5/2)*sqrt(a^2+2*a*b*x+_
b^2*x^2))+3*e*(a+b*x)*sqrt(d+e*x)/(b^2*sqrt(a^2+2*a*b*x+b^2*x^2))
--E 737

--S 738 of 765
d0:=normalize(t0-D(r0,x))
--E 738

)clear all

--S 739 of 765
t0:=(a+b*x)*sqrt(d+e*x)/(a^2+2*a*b*x+b^2*x^2)^(3/2)
--E 739

--S 740 of 765
r0:=-e*(a+b*x)*atanh(sqrt(b)*sqrt(d+e*x)/sqrt(b*d-a*e))/(b^(3/2)*_
sqrt(b*d-a*e)*sqrt(a^2+2*a*b*x+b^2*x^2))-sqrt(d+e*x)/(b*sqrt(a^2+_
2*a*b*x+b^2*x^2))
--E 740

--S 741 of 765
d0:=normalize(t0-D(r0,x))
--E 741

)clear all

--S 742 of 765
t0:=(a+b*x)/((a^2+2*a*b*x+b^2*x^2)^(3/2)*sqrt(d+e*x))
--E 742

--S 743 of 765
r0:=e*(a+b*x)*atanh(sqrt(b)*sqrt(d+e*x)/sqrt(b*d-a*e))/((b*d-a*e)^(3/2)*_
sqrt(b)*sqrt(a^2+2*a*b*x+b^2*x^2))-sqrt(d+e*x)/((b*d-a*e)*sqrt(a^2+_
2*a*b*x+b^2*x^2))
--E 743

--S 744 of 765
d0:=normalize(t0-D(r0,x))
--E 744

)clear all

--S 745 of 765
t0:=(a+b*x)/((d+e*x)^(3/2)*(a^2+2*a*b*x+b^2*x^2)^(3/2))
--E 745

--S 746 of 765
r0:=3*e*(a+b*x)*atanh(sqrt(b)*sqrt(d+e*x)/sqrt(b*d-a*e))*sqrt(b)/((b*d-_
a*e)^(5/2)*sqrt(a^2+2*a*b*x+b^2*x^2))+2/((b*d-a*e)*sqrt(d+e*x)*_
sqrt(a^2+2*a*b*x+b^2*x^2))-3*b*sqrt(d+e*x)/((b*d-a*e)^2*sqrt(a^2+_

```

```

      2*a*b*x+b^2*x^2))
--E 746

--S 747 of 765
d0:=normalize(t0-D(r0,x))
--E 747

)clear all

--S 748 of 765
t0:=(a+b*x)/((d+e*x)^(5/2)*(a^2+2*a*b*x+b^2*x^2)^(3/2))
--E 748

--S 749 of 765
r0:=2/3/((b*d-a*e)*(d+e*x)^(3/2)*sqrt(a^2+2*a*b*x+b^2*x^2))+5*b^(3/2)*e*_
(a+b*x)*atanh(sqrt(b)*sqrt(d+e*x)/sqrt(b*d-a*e))/((b*d-a*e)^(7/2)*_
sqrt(a^2+2*a*b*x+b^2*x^2))+10/3*b/((b*d-a*e)^2*sqrt(d+e*x)*sqrt(a^2+_
2*a*b*x+b^2*x^2))-5*b^2*sqrt(d+e*x)/((b*d-a*e)^3*sqrt(a^2+2*a*b*x+b^2*x^2))
--E 749

--S 750 of 765
d0:=normalize(t0-D(r0,x))
--E 750

)clear all

--S 751 of 765
t0:=(a+b*x)/((d+e*x)^(7/2)*(a^2+2*a*b*x+b^2*x^2)^(3/2))
--E 751

--S 752 of 765
r0:=2/5/((b*d-a*e)*(d+e*x)^(5/2)*sqrt(a^2+2*a*b*x+b^2*x^2))+14/15*b/((b*d-_
a*e)^2*(d+e*x)^(3/2)*sqrt(a^2+2*a*b*x+b^2*x^2))+7*b^(5/2)*e*(a+b*x)*_
atanh(sqrt(b)*sqrt(d+e*x)/sqrt(b*d-a*e))/((b*d-a*e)^(9/2)*sqrt(a^2+_
2*a*b*x+b^2*x^2))+14/3*b^2/((b*d-a*e)^3*sqrt(d+e*x)*sqrt(a^2+2*a*b*x+_
b^2*x^2))-7*b^3*sqrt(d+e*x)/((b*d-a*e)^4*sqrt(a^2+2*a*b*x+b^2*x^2))
--E 752

--S 753 of 765
d0:=normalize(t0-D(r0,x))
--E 753

)clear all

--S 754 of 765
t0:=(a+b*x)*(d+e*x)^(7/2)/(a^2+2*a*b*x+b^2*x^2)^(5/2)
--E 754

--S 755 of 765
r0:=-7/12*e*(a+b*x)*(d+e*x)^(5/2)/(b^2*(a^2+2*a*b*x+b^2*x^2)^(3/2))-_

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1/3*(d+e*x)^(7/2)/(b*(a^2+2*a*b*x+b^2*x^2)^(3/2))-35/24*e^2*_
(d+e*x)^(3/2)/(b^3*sqrt(a^2+2*a*b*x+b^2*x^2))-35/8*e^3*(a+b*x)*_
atanh(sqrt(b)*sqrt(d+e*x)/sqrt(b*d-a*e))*sqrt(b*d-a*e)/(b^(9/2)*_
sqrt(a^2+2*a*b*x+b^2*x^2))+35/8*e^3*(a+b*x)*sqrt(d+e*x)/(b^4*_
sqrt(a^2+2*a*b*x+b^2*x^2))
--E 755

--S 756 of 765
d0:=normalize(t0-D(r0,x))
--E 756

)clear all

--S 757 of 765
t0:=(a+b*x)*(d+e*x)^(5/2)/(a^2+2*a*b*x+b^2*x^2)^(5/2)
--E 757

--S 758 of 765
r0:=-5/12*e*(a+b*x)*(d+e*x)^(3/2)/(b^2*(a^2+2*a*b*x+b^2*x^2)^(3/2))-_
1/3*(d+e*x)^(5/2)/(b*(a^2+2*a*b*x+b^2*x^2)^(3/2))-5/8*e^3*(a+b*x)*_
atanh(sqrt(b)*sqrt(d+e*x)/sqrt(b*d-a*e))/(b^(7/2)*sqrt(b*d-a*e)*_
sqrt(a^2+2*a*b*x+b^2*x^2))-5/8*e^2*sqrt(d+e*x)/(b^3*sqrt(a^2+2*a*b*x+_
b^2*x^2))
--E 758

--S 759 of 765
d0:=normalize(t0-D(r0,x))
--E 759

)clear all

--S 760 of 765
t0:=(a+b*x)*(d+e*x)^(3/2)/(a^2+2*a*b*x+b^2*x^2)^(5/2)
--E 760

--S 761 of 765
r0:=-1/3*(d+e*x)^(3/2)/(b*(a^2+2*a*b*x+b^2*x^2)^(3/2))-1/4*e*(a+b*x)*_
(d+e*x)^(3/2)/(b*(b*d-a*e)*(a^2+2*a*b*x+b^2*x^2)^(3/2))+1/8*e^3*(a+_
b*x)*atanh(sqrt(b)*sqrt(d+e*x)/sqrt(b*d-a*e))/(b^(5/2)*(b*d-a*e)^(3/2)*_
sqrt(a^2+2*a*b*x+b^2*x^2))+1/8*e^2*sqrt(d+e*x)/(b^2*(b*d-a*e)*_
sqrt(a^2+2*a*b*x+b^2*x^2))
--E 761

--S 762 of 765
d0:=normalize(t0-D(r0,x))
--E 762

)clear all

--S 763 of 765

```

```
t0:=(a+b*x)*sqrt(d+e*x)/(a^2+2*a*b*x+b^2*x^2)^(5/2)
--E 763
```

```
--S 764 of 765
```

```
r0:=-1/3*sqrt(d+e*x)/(b*(a^2+2*a*b*x+b^2*x^2)^(3/2))-1/12*e*(a+b*x)*_
sqrt(d+e*x)/(b*(b*d-a*e)*(a^2+2*a*b*x+b^2*x^2)^(3/2))-1/8*e^3*(a+b*x)*_
atanh(sqrt(b)*sqrt(d+e*x)/sqrt(b*d-a*e))/(b^(3/2)*(b*d-a*e)^(5/2)*_
sqrt(a^2+2*a*b*x+b^2*x^2))+1/8*e^2*sqrt(d+e*x)/(b*(b*d-a*e)^2*sqrt(a^2+_
2*a*b*x+b^2*x^2))
--E 764
```

```
--S 765 of 765
```

```
d0:=normalize(t0-D(r0,x))
--E 765
```

```
)spool
)lisp (bye)
```

-----

## References

- [1] nothing