

\$SPAD/src/input richder3r.input

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Abstract

$(a+b\ x)^m (c+d)^n (e+f\ x)^p$

There are no derivatives in this file.

Contents

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      — * —

)set break resume
)sys rm -f richder3r.output
)spool richder3r.output
)set message test on
)set message auto off
)clear all

--S 1 of 300
t0:=sqrt(1-2*x)/((2+3*x)^(3/2)*(3+5*x)^(3/2))
--R
--R
--R
$$(1) \frac{\sqrt{-2x + 1}}{(15x^2 + 19x + 6)\sqrt{3x^2 + 2\sqrt{5x + 3}}}$$

--R
                                         Type: Expression(Integer)
--E 1

--S 2 of 300
--r0:=-4*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)+_
--    4*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*sqrt(35)+_
--    2*sqrt(1-2*x)/(sqrt(2+3*x)*sqrt(3+5*x))-20*sqrt(1-2*x)*_
--    sqrt(2+3*x)/sqrt(3+5*x)
--E 2
                                         Type: Expression(Integer)

--S 3 of 300
--d0:=t0-D(r0,x)
--E 3

)clear all

--S 4 of 300
t0:=sqrt(1-2*x)/((2+3*x)^(5/2)*(3+5*x)^(3/2))
--R
--R
--R
$$(1) \frac{\sqrt{-2x + 1}}{(45x^3 + 87x^2 + 56x + 12)\sqrt{3x^2 + 2\sqrt{5x + 3}}}$$

--R
                                         Type: Expression(Integer)
--E 4
                                         Type: Expression(Integer)

--S 5 of 300
--r0:=556/3*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*_
--    sqrt(5/7)-80/3*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_

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--S 11 of 300
--r0:=12601/103125*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--      sqrt(33)-1473539/206250*elliptic_e(asin(sqrt(5/11)*_
--      sqrt(1-2*x)),33/35)/sqrt(35)-2/15*(2+3*x)^(9/2)*sqrt(1-2*x)/_
--      (3+5*x)^(3/2)-118/165*(2+3*x)^(7/2)*sqrt(1-2*x)/sqrt(3+5*x)+_
--      5153/48125*(2+3*x)^(3/2)*sqrt(1-2*x)*sqrt(3+5*x)+_
--      958/1925*(2+3*x)^(5/2)*sqrt(1-2*x)*sqrt(3+5*x)-_
--      12601/240625*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 11

--S 12 of 300
--d0:=t0-D(r0,x)
--E 12

)clear all

--S 13 of 300
t0:=(2+3*x)^(7/2)*sqrt(1-2*x)/(3+5*x)^(5/2)
--R
--R
--R      3      2      +-----+ +-----+
--R      (27x  + 54x  + 36x + 8)\|- 2x + 1 \|3x + 2
--R      (1) -----
--R                  2      +-----+
--R                  (25x  + 30x + 9)\|5x + 3
--R
                                         Type: Expression(Integer)
--E 13

--S 14 of 300
--r0:=-47342/103125*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*_
--      sqrt(7/5)-19033/103125*elliptic_f(asin(sqrt(3/7)*_
--      sqrt(1-2*x)),35/33)/sqrt(33)-2/15*(2+3*x)^(7/2)*sqrt(1-2*x)/_
--      (3+5*x)^(3/2)-458/825*(2+3*x)^(5/2)*sqrt(1-2*x)/sqrt(3+5*x)+_
--      2818/6875*(2+3*x)^(3/2)*sqrt(1-2*x)*sqrt(3+5*x)+_
--      2719/34375*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 14

--S 15 of 300
--d0:=t0-D(r0,x)
--E 15

)clear all

--S 16 of 300
t0:=(2+3*x)^(5/2)*sqrt(1-2*x)/(3+5*x)^(5/2)
--R
--R
--R      2      +-----+ +-----+
--R      (9x  + 12x + 4)\|- 2x + 1 \|3x + 2
--R      (1) -----

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```

--R          2           +-----+
--R          (25x  + 30x + 9)\|5x + 3
--R
--E 16                                         Type: Expression(Integer)

--S 17 of 300
--r0:=-169/4125*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*sqrt(7/5)-
--    3206/4125*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)-
--    2/15*(2+3*x)^(5/2)*sqrt(1-2*x)/(3+5*x)^(3/2)-
--    326/825*(2+3*x)^(3/2)*sqrt(1-2*x)/sqrt(3+5*x)+_
--    458/1375*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 17

--S 18 of 300
--d0:=t0-D(r0,x)
--E 18

)clear all

--S 19 of 300
t0:=(2+3*x)^(3/2)*sqrt(1-2*x)/(3+5*x)^(5/2)
--R
--R
--R          +-----+ +-----+
--R          (3x + 2)\|- 2x + 1 \|3x + 2
--R (1) -----
--R          2           +-----+
--R          (25x  + 30x + 9)\|5x + 3
--R
--E 19                                         Type: Expression(Integer)

--S 20 of 300
--r0:=458/825*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*sqrt(7/5)-
--    1358/825*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--    sqrt(33)-2/15*(2+3*x)^(3/2)*sqrt(1-2*x)/(3+5*x)^(3/2)-
--    194/825*sqrt(1-2*x)*sqrt(2+3*x)/sqrt(3+5*x)
--E 20

--S 21 of 300
--d0:=t0-D(r0,x)
--E 21

)clear all

--S 22 of 300
t0:=sqrt(1-2*x)*sqrt(2+3*x)/(3+5*x)^(5/2)
--R
--R
--R          +-----+ +-----+
--R          \|- 2x + 1 \|3x + 2

```

```

--R      (1)  -----
--R              2           +---+
--R          (25x  + 30x + 9)\|5x + 3
--R
--E 22                                         Type: Expression(Integer)

--S 23 of 300
--r0:=62/165*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*sqrt(7/5)+_
--    28/165*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--    sqrt(33)-2/15*sqrt(1-2*x)*sqrt(2+3*x)/(3+5*x)^(3/2)-_
--    62/165*sqrt(1-2*x)*sqrt(2+3*x)/sqrt(3+5*x)
--E 23

--S 24 of 300
--d0:=t0-D(r0,x)
--E 24

)clear all

--S 25 of 300
t0:=sqrt(1-2*x)/((3+5*x)^(5/2)*sqrt(2+3*x))
--R
--R
--R              +-----+
--R              \|- 2x + 1
--R      (1)  -----
--R              2           +---+ +---+
--R          (25x  + 30x + 9)\|3x + 2 \|5x + 3
--R
--E 25                                         Type: Expression(Integer)

--S 26 of 300
--r0:=-136/33*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*_
--    sqrt(7/5)+28/33*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--    sqrt(33)-2/3*sqrt(1-2*x)*sqrt(2+3*x)/(3+5*x)^(3/2)+_
--    136/33*sqrt(1-2*x)*sqrt(2+3*x)/sqrt(3+5*x)
--E 26

--S 27 of 300
--d0:=t0-D(r0,x)
--E 27

)clear all

--S 28 of 300
t0:=sqrt(1-2*x)/((2+3*x)^(3/2)*(3+5*x)^(5/2))
--R
--R
--R              +-----+
--R              \|- 2x + 1

```

```

--R      (1)  -----
--R           3      2      +-----+ +-----+
--R           (75x  + 140x  + 87x + 18)\|3x  + 2 \|5x + 3
--R
--R                                         Type: Expression(Integer)
--E 28

--S 29 of 300
--r0:=536/33*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)-_
-- 532/33*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*sqrt(35)+_
-- 2*sqrt(1-2*x)/((3+5*x)^(3/2)*sqrt(2+3*x))-40/3*sqrt(1-2*x)*_
-- sqrt(2+3*x)/(3+5*x)^(3/2)+2660/33*sqrt(1-2*x)*sqrt(2+3*x)/sqrt(3+5*x)
--E 29

--S 30 of 300
--d0:=t0-D(r0,x)
--E 30

)clear all

--S 31 of 300
t0:=sqrt(1-2*x)/((2+3*x)^(5/2)*(3+5*x)^(5/2))
--R
--R
--R           +-----+
--R           \|- 2x + 1
--R      (1)  -----
--R           4      3      2      +-----+ +-----+
--R           (225x  + 570x  + 541x  + 228x + 36)\|3x  + 2 \|5x + 3
--R
--R                                         Type: Expression(Integer)
--E 31

--S 32 of 300
--r0:=-36968/33*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*sqrt(5/7)+_
-- 5320/33*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)+_
-- 2/3*sqrt(1-2*x)/((2+3*x)^(3/2)*(3+5*x)^(3/2))+416/21*_
-- sqrt(1-2*x)/((3+5*x)^(3/2)*sqrt(2+3*x))-2780/21*sqrt(1-2*x)*_
-- sqrt(2+3*x)/(3+5*x)^(3/2)+184840/231*sqrt(1-2*x)*sqrt(2+3*x)/sqrt(3+5*x)
--E 32

--S 33 of 300
--d0:=t0-D(r0,x)
--E 33

)clear all

--S 34 of 300
t0:=sqrt(1-2*x)/((2+3*x)^(7/2)*(3+5*x)^(5/2))
--R
--R
--R           +-----+

```

```

--R
--R      (1)  -----
--R              5      4      3      2      +-----+ +-----+
--R              (675x  + 2160x  + 2763x  + 1766x  + 564x  + 72)\|3x  + 2 \|5x  + 3
--R
--R                                         Type: Expression(Integer)
--E 34

--S 35 of 300
--r0:=296816/231*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--    sqrt(33)-10312712/231*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)/_
--    sqrt(35)+2/5*sqrt(1-2*x)/((2+3*x)^(5/2)*(3+5*x)^(3/2))+_
--    556/105*sqrt(1-2*x)/((2+3*x)^(3/2)*(3+5*x)^(3/2))+_
--    116044/735*sqrt(1-2*x)/((3+5*x)^(3/2)*sqrt(2+3*x))-_
--    155104/147*sqrt(1-2*x)*sqrt(2+3*x)/(3+5*x)^(3/2)+_
--    10312712/1617*sqrt(1-2*x)*sqrt(2+3*x)/sqrt(3+5*x)
--E 35

--S 36 of 300
--d0:=t0-D(r0,x)
--E 36

)clear all

--S 37 of 300
t0:=(1-2*x)^(3/2)*(2+3*x)^(5/2)*sqrt(3+5*x)
--R
--R
--R              3      2      +-----+ +-----+ +-----+
--R      (1)  (- 18x  - 15x  + 4x  + 4)\|- 2x  + 1 \|3x  + 2 \|5x  + 3
--R
--R                                         Type: Expression(Integer)
--E 37

--S 38 of 300
--r0:=2/55*(1-2*x)^(3/2)*(2+3*x)^(5/2)*(3+5*x)^(3/2)+17427983/16706250*_
--    elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)-_
--    604915631/16706250*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)/_
--    sqrt(35)+1103/259875*(2+3*x)^(3/2)*(3+5*x)^(3/2)*sqrt(1-2*x)+_
--    178/7425*(2+3*x)^(5/2)*(3+5*x)^(3/2)*sqrt(1-2*x)-_
--    124891/2165625*(3+5*x)^(3/2)*sqrt(1-2*x)*sqrt(2+3*x)-_
--    18177329/38981250*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 38

--S 39 of 300
--d0:=t0-D(r0,x)
--E 39

)clear all

--S 40 of 300
t0:=(1-2*x)^(3/2)*(2+3*x)^(3/2)*sqrt(3+5*x)

```

```

--R
--R
--R      2      +-----+ +-----+ +-----+
--R      (1)  (- 6x  - x + 2)\|- 2x + 1 \|3x + 2 \|5x + 3
--R
--R                                         Type: Expression(Integer)
--E 40

--S 41 of 300
--r0:=2/45*(1-2*x)^(3/2)*(2+3*x)^(3/2)*(3+5*x)^(3/2)+83093/151875*_
-- elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)-_
-- 5684677/303750*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)/_
-- sqrt(35)+62/1575*(2+3*x)^(3/2)*(3+5*x)^(3/2)*sqrt(1-2*x)-_
-- 347/39375*(3+5*x)^(3/2)*sqrt(1-2*x)*sqrt(2+3*x)-_
-- 84134/354375*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 41

--S 42 of 300
--d0:=t0-D(r0,x)
--E 42

)clear all

--S 43 of 300
t0:=(1-2*x)^(3/2)*sqrt(2+3*x)*sqrt(3+5*x)
--R
--R
--R      +-----+ +-----+ +-----+
--R      (1)  (- 2x + 1)\|- 2x + 1 \|3x + 2 \|5x + 3
--R
--R                                         Type: Expression(Integer)
--E 43

--S 44 of 300
--r0:=4289/10125*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)-_
-- 118898/10125*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)/_
-- sqrt(35)+2/35*(1-2*x)^(3/2)*(3+5*x)^(3/2)*sqrt(2+3*x)+_
-- 194/2625*(3+5*x)^(3/2)*sqrt(1-2*x)*sqrt(2+3*x)-_
-- 2657/23625*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 44

--S 45 of 300
--d0:=t0-D(r0,x)
--E 45

)clear all

--S 46 of 300
t0:=(1-2*x)^(3/2)*sqrt(3+5*x)/sqrt(2+3*x)
--R
--R
--R      +-----+ +-----+

```

```

--R      (- 2x + 1)\|- 2x + 1 \|5x + 3
--R      (1) -----
--R                  +---+
--R                  \|3x + 2
--R
--E 46                                         Type: Expression(Integer)

--S 47 of 300
--r0:=-4157/2025*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*_
--    sqrt(7/5)+4382/2025*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--    sqrt(33)+2/15*(1-2*x)^(3/2)*sqrt(2+3*x)*sqrt(3+5*x)+214/675*_
--    sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 47

--S 48 of 300
--d0:=t0-D(r0,x)
--E 48

)clear all

--S 49 of 300
t0:=(1-2*x)^(3/2)*sqrt(3+5*x)/(2+3*x)^(3/2)
--R
--R
--R      +-----+ +-----+
--R      (- 2x + 1)\|- 2x + 1 \|5x + 3
--R      (1) -----
--R                  +---+
--R                  (3x + 2)\|3x + 2
--R
--E 49                                         Type: Expression(Integer)

--S 50 of 300
--r0:=494/81*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*sqrt(7/5)-_
--    1610/81*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--    sqrt(33)-2/3*(1-2*x)^(3/2)*sqrt(3+5*x)/sqrt(2+3*x)-16/27*_
--    sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 50

--S 51 of 300
--d0:=t0-D(r0,x)
--E 51

)clear all

--S 52 of 300
t0:=(1-2*x)^(3/2)*sqrt(3+5*x)/(2+3*x)^(5/2)
--R
--R
--R      +-----+ +-----+

```

```

--R      (- 2x + 1)\|- 2x + 1 \|5x + 3
--R      (1) -----
--R                  2          +----+
--R      (9x  + 12x + 4)\|3x + 2
--R
--E 52                                         Type: Expression(Integer)

--S 53 of 300
--r0:=724/81*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)-
--    98/81*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*sqrt(35)-
--    2/9*(1-2*x)^(3/2)*sqrt(3+5*x)/(2+3*x)^(3/2)+82/27*_
--    sqrt(1-2*x)*sqrt(3+5*x)/sqrt(2+3*x)
--E 53

--S 54 of 300
--d0:=t0-D(r0,x)
--E 54

)clear all

--S 55 of 300
t0:=(1-2*x)^(3/2)*sqrt(3+5*x)/(2+3*x)^(7/2)
--R
--R
--R      +-----+ +-----+
--R      (- 2x + 1)\|- 2x + 1 \|5x + 3
--R      (1) -----
--R      3      2          +----+
--R      (27x  + 54x  + 36x + 8)\|3x + 2
--R
--E 55                                         Type: Expression(Integer)

--S 56 of 300
--r0:=68/81*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)-
--    3896/81*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)/_
--    sqrt(35)-2/15*(1-2*x)^(3/2)*sqrt(3+5*x)/(2+3*x)^(5/2)+_
--    82/135*sqrt(1-2*x)*sqrt(3+5*x)/(2+3*x)^(3/2)+3896/945*_
--    sqrt(1-2*x)*sqrt(3+5*x)/sqrt(2+3*x)
--E 56

--S 57 of 300
--d0:=t0-D(r0,x)
--E 57

)clear all

--S 58 of 300
t0:=(1-2*x)^(3/2)*sqrt(3+5*x)/(2+3*x)^(9/2)
--R
--R

```

```

--R          +-----+ +-----+
--R          (- 2x + 1)\|- 2x + 1 \|5x + 3
--R  (1)  -----
--R          4      3      2      +-----+
--R          (81x  + 216x  + 216x  + 96x + 16)\|3x + 2
--R
--R                                         Type: Expression(Integer)
--E 58

--S 59 of 300
--r0:=17032/3969*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--    sqrt(33)-595324/3969*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)/_
--    sqrt(35)-2/21*(1-2*x)^(3/2)*sqrt(3+5*x)/(2+3*x)^(7/2)+_
--    82/315*sqrt(1-2*x)*sqrt(3+5*x)/(2+3*x)^(5/2)+8516/6615*_
--    sqrt(1-2*x)*sqrt(3+5*x)/(2+3*x)^(3/2)+595324/46305*sqrt(1-2*x)*_
--    sqrt(3+5*x)/sqrt(2+3*x)
--E 59

--S 60 of 300
--d0:=t0-D(r0,x)
--E 60

)clear all

--S 61 of 300
t0:=(1-2*x)^(3/2)*sqrt(3+5*x)/(2+3*x)^(11/2)
--R
--R
--R          +-----+ +-----+
--R          (- 2x + 1)\|- 2x + 1 \|5x + 3
--R  (1)  -----
--R          5      4      3      2      +-----+
--R          (243x  + 810x  + 1080x  + 720x  + 240x + 32)\|3x + 2
--R
--R                                         Type: Expression(Integer)
--E 61

--S 62 of 300
--r0:=1226552/83349*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--    sqrt(33)-42623864/83349*elliptic_e(asin(sqrt(5/11)*_
--    sqrt(1-2*x)),33/35)/sqrt(35)-2/27*(1-2*x)^(3/2)*_
--    sqrt(3+5*x)/(2+3*x)^(9/2)+82/567*sqrt(1-2*x)*sqrt(3+5*x)/_
--    (2+3*x)^(7/2)+13136/19845*sqrt(1-2*x)*sqrt(3+5*x)/_
--    (2+3*x)^(5/2)+613276/138915*sqrt(1-2*x)*sqrt(3+5*x)/_
--    (2+3*x)^(3/2)+42623864/972405*sqrt(1-2*x)*sqrt(3+5*x)/sqrt(2+3*x)
--E 62

--S 63 of 300
--d0:=t0-D(r0,x)
--E 63

)clear all

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```

--S 64 of 300
t0:=(1-2*x)^(3/2)*(2+3*x)^(5/2)*(3+5*x)^(3/2)
--R
--R
--R      4      3      2      +-----+ +-----+ +-----+
--R      (1) (- 90x - 129x - 25x + 32x + 12)\|- 2x + 1 \|3x + 2 \|5x + 3
--R                                         Type: Expression(Integer)
--E 64

--S 65 of 300
--r0:=2/65*(1-2*x)^(3/2)*(2+3*x)^(5/2)*(3+5*x)^(5/2)+_
--      371279941/108590625*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--      sqrt(33)-51601293223/434362500*elliptic_e(asin(sqrt(5/11)*_
--      sqrt(1-2*x)),33/35)/sqrt(35)+601/160875*(2+3*x)^(3/2)*_
--      (3+5*x)^(5/2)*sqrt(1-2*x)+178/10725*(2+3*x)^(5/2)*(3+5*x)^(5/2)*_
--      sqrt(1-2*x)-11725073/56306250*(3+5*x)^(3/2)*sqrt(1-2*x)*_
--      sqrt(2+3*x)-18034/625625*(3+5*x)^(5/2)*sqrt(1-2*x)*sqrt(2+3*x)-_
--      776112041/506756250*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 65

--S 66 of 300
--d0:=t0-D(r0,x)
--E 66

)clear all

--S 67 of 300
t0:=(1-2*x)^(3/2)*(2+3*x)^(3/2)*(3+5*x)^(3/2)
--R
--R
--R      3      2      +-----+ +-----+ +-----+
--R      (1) (- 30x - 23x + 7x + 6)\|- 2x + 1 \|3x + 2 \|5x + 3
--R                                         Type: Expression(Integer)
--E 67

--S 68 of 300
--r0:=2/55*(1-2*x)^(3/2)*(2+3*x)^(3/2)*(3+5*x)^(5/2)+5199979/3341250*_
--      elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)-_
--      90397364/1670625*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)/_
--      sqrt(35)+62/2475*(2+3*x)^(3/2)*(3+5*x)^(5/2)*sqrt(1-2*x)-_
--      40703/433125*(3+5*x)^(3/2)*sqrt(1-2*x)*sqrt(2+3*x)-_
--      23/9625*(3+5*x)^(5/2)*sqrt(1-2*x)*sqrt(2+3*x)-_
--      5442127/7796250*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 68

--S 69 of 300
--d0:=t0-D(r0,x)
--E 69

```

```

)clear all

--S 70 of 300
t0:=(1-2*x)^(3/2)*(3+5*x)^(3/2)*sqrt(2+3*x)
--R
--R
--R      2      +-----+ +-----+ +-----+
--R      (1)  (- 10x  - x + 3)\|- 2x + 1 \|3x + 2 \|5x + 3
--R
--R                                         Type: Expression(Integer)
--E 70

--S 71 of 300
--r0:=70226/91125*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)-_
--    4971289/182250*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)/_
--    sqrt(35)+2/45*(1-2*x)^(3/2)*(3+5*x)^(5/2)*sqrt(2+3*x)-_
--    839/23625*(3+5*x)^(3/2)*sqrt(1-2*x)*sqrt(2+3*x)+_
--    194/4725*(3+5*x)^(5/2)*sqrt(1-2*x)*sqrt(2+3*x)-_
--    76163/212625*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 71

--S 72 of 300
--d0:=t0-D(r0,x)
--E 72

)clear all

--S 73 of 300
t0:=(1-2*x)^(3/2)*(3+5*x)^(3/2)/sqrt(2+3*x)
--R
--R
--R      2      +-----+ +-----+
--R      (- 10x  - x + 3)\|- 2x + 1 \|5x + 3
--R      (1)  -----
--R
--R
--R                                         Type: Expression(Integer)
--E 73

--S 74 of 300
--r0:=-31/2025*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)-_
--    29933/2025*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)/_
--    sqrt(35)+2/21*(1-2*x)^(3/2)*(3+5*x)^(3/2)*sqrt(2+3*x)+_
--    74/525*(3+5*x)^(3/2)*sqrt(1-2*x)*sqrt(2+3*x)-1847/4725*_
--    sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 74

--S 75 of 300
--d0:=t0-D(r0,x)
--E 75

```

```

)clear all

--S 76 of 300
t0:=(1-2*x)^(3/2)*(3+5*x)^(3/2)/(2+3*x)^(3/2)
--R
--R
--R
$$(1) \frac{(-10x^2 - x + 3)\sqrt{-2x + 1}\sqrt{5x + 3}}{(3x + 2)\sqrt{3x + 2}}$$

--R
--R
--E 76                                         Type: Expression(Integer)

--S 77 of 300
--r0:=-2209/405*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*_
--    sqrt(7/5)+4144/405*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--    sqrt(33)-2/3*(1-2*x)^(3/2)*(3+5*x)^(3/2)/sqrt(2+3*x)-
--    8/15*(3+5*x)^(3/2)*sqrt(1-2*x)*sqrt(2+3*x)+494/135*_
--    sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 77

--S 78 of 300
--d0:=t0-D(r0,x)
--E 78

)clear all

--S 79 of 300
t0:=(1-2*x)^(3/2)*(3+5*x)^(3/2)/(2+3*x)^(5/2)
--R
--R
--R
$$(1) \frac{(-10x^2 - x + 3)\sqrt{-2x + 1}\sqrt{5x + 3}}{(9x^2 + 12x + 4)\sqrt{3x + 2}}$$

--R
--R
--E 79                                         Type: Expression(Integer)

--S 80 of 300
--r0:=-2/9*(1-2*x)^(3/2)*(3+5*x)^(3/2)/(2+3*x)^(3/2)-
--    8774/243*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)+_
--    592/243*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*_
--    sqrt(35)+74/9*(3+5*x)^(3/2)*sqrt(1-2*x)/sqrt(2+3*x)-
--    1150/81*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 80

--S 81 of 300
--d0:=t0-D(r0,x)

```

```

--E 81

)clear all

--S 82 of 300
t0:=(1-2*x)^(3/2)*(3+5*x)^(3/2)/(2+3*x)^(7/2)
--R
--R
--R
$$(1) \frac{(-10x^2 - x + 3)\sqrt{-2x + 1}\sqrt{5x + 3}}{(27x^3 + 54x^2 + 36x + 8)\sqrt{3x + 2}}$$

--R
--R
--E 82                                         Type: Expression(Integer)

--S 83 of 300
--r0:=-2/15*(1-2*x)^(3/2)*(3+5*x)^(3/2)/(2+3*x)^(5/2)+_
--      1184/81*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)-_
--      4418/81*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)/_
--      sqrt(35)+74/45*(3+5*x)^(3/2)*sqrt(1-2*x)/(2+3*x)^(3/2)+_
--      988/945*sqrt(1-2*x)*sqrt(3+5*x)/sqrt(2+3*x)
--E 83

--S 84 of 300
--d0:=t0-D(r0,x)
--E 84

)clear all

--S 85 of 300
t0:=(1-2*x)^(3/2)*(3+5*x)^(3/2)/(2+3*x)^(9/2)
--R
--R
--R
$$(1) \frac{(-10x^2 - x + 3)\sqrt{-2x + 1}\sqrt{5x + 3}}{(81x^4 + 216x^3 + 216x^2 + 96x + 16)\sqrt{3x + 2}}$$

--R
--R
--E 85                                         Type: Expression(Integer)

--S 86 of 300
--r0:=-2/21*(1-2*x)^(3/2)*(3+5*x)^(3/2)/(2+3*x)^(7/2)-_
--      124/3969*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)-_
--      119732/3969*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)/_
--      sqrt(35)+74/105*(3+5*x)^(3/2)*sqrt(1-2*x)/(2+3*x)^(5/2)-_
--      3632/6615*sqrt(1-2*x)*sqrt(3+5*x)/(2+3*x)^(3/2)+_
--      119732/46305*sqrt(1-2*x)*sqrt(3+5*x)/sqrt(2+3*x)
--E 86

```

```

--S 87 of 300
--d0:=t0-D(r0,x)
--E 87

)clear all

--S 88 of 300
t0:=(1-2*x)^(3/2)*(3+5*x)^(3/2)/(2+3*x)^(11/2)
--R
--R
--R
$$(1) \frac{(-10x^2 - x + 3)\sqrt{-2x + 1}\sqrt{5x + 3}}{(243x^5 + 810x^4 + 1080x^3 + 720x^2 + 240x + 32)\sqrt{3x + 2}}$$

--R
--R                                         Type: Expression(Integer)
--E 88

--S 89 of 300
--r0:=-2/27*(1-2*x)^(3/2)*(3+5*x)^(3/2)/(2+3*x)^(9/2)+_
--      561808/250047*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--      sqrt(33)-19885156/250047*elliptic_e(asin(sqrt(5/11)*_
--      sqrt(1-2*x)),33/35)/sqrt(35)+74/189*(3+5*x)^(3/2)*_
--      sqrt(1-2*x)/(2+3*x)^(7/2)-8252/19845*sqrt(1-2*x)*sqrt(3+5*x)/_
--      (2+3*x)^(5/2)+280904/416745*sqrt(1-2*x)*sqrt(3+5*x)/_
--      (2+3*x)^(3/2)+19885156/2917215*sqrt(1-2*x)*sqrt(3+5*x)/sqrt(2+3*x)
--E 89

--S 90 of 300
--d0:=t0-D(r0,x)
--E 90

)clear all

--S 91 of 300
t0:=(1-2*x)^(3/2)*(3+5*x)^(3/2)/(2+3*x)^(13/2)
--R
--R
--R
$$(1) \frac{(-10x^2 - x + 3)\sqrt{-2x + 1}\sqrt{5x + 3}}{(729x^6 + 2916x^5 + 4860x^4 + 4320x^3 + 2160x^2 + 576x + 64)\sqrt{3x + 2}}$$

--R
--R                                         Type: Expression(Integer)
--E 91

--S 92 of 300
--r0:=-2/33*(1-2*x)^(3/2)*(3+5*x)^(3/2)/(2+3*x)^(11/2)+_
--      41599832/6417873*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_

```

```

--      sqrt(33)-1446357824/6417873*elliptic_e(asin(sqrt(5/11)*_
--      sqrt(1-2*x)),33/35)/sqrt(35)+74/297*(3+5*x)^(3/2)*sqrt(1-2*x)/_
--      (2+3*x)^(9/2)-12872/43659*sqrt(1-2*x)*sqrt(3+5*x)/(2+3*x)^(7/2)+_
--      442076/1528065*sqrt(1-2*x)*sqrt(3+5*x)/(2+3*x)^(5/2)+_
--      20799916/10696455*sqrt(1-2*x)*sqrt(3+5*x)/(2+3*x)^(3/2)+_
--      1446357824/74875185*sqrt(1-2*x)*sqrt(3+5*x)/sqrt(2+3*x)
--E 92

--S 93 of 300
--d0:=t0-D(r0,x)
--E 93

)clear all

--S 94 of 300
t0:=(1-2*x)^(3/2)*(2+3*x)^(5/2)*(3+5*x)^(5/2)
--R
--R
--R (1)
--R      5      4      3      2      +-----+ +-----+ +-----+
--R      (- 450x - 915x - 512x + 85x + 156x + 36)\|- 2x + 1 \|3x + 2 \|5x + 3
--R
--R                                         Type: Expression(Integer)
--E 94

--S 95 of 300
--r0:=2/75*(1-2*x)^(3/2)*(2+3*x)^(5/2)*(3+5*x)^(7/2)+_
--      48128081531/3909262500*elliptic_f(asin(sqrt(3/7)*_
--      sqrt(1-2*x)),35/33)/sqrt(33)-836091184171/1954631250*_
--      elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)/sqrt(35)+_
--      2503/804375*(2+3*x)^(3/2)*(3+5*x)^(7/2)*sqrt(1-2*x)+_
--      178/14625*(2+3*x)^(5/2)*(3+5*x)^(7/2)*sqrt(1-2*x)-_
--      380132617/506756250*(3+5*x)^(3/2)*sqrt(1-2*x)*sqrt(2+3*x)-_
--      57509209/506756250*(3+5*x)^(5/2)*sqrt(1-2*x)*sqrt(2+3*x)-_
--      199721/12065625*(3+5*x)^(7/2)*sqrt(1-2*x)*sqrt(2+3*x)-_
--      50299451003/9121612500*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 95

--S 96 of 300
--d0:=t0-D(r0,x)
--E 96

)clear all

--S 97 of 300
t0:=(1-2*x)^(3/2)*(2+3*x)^(3/2)*(3+5*x)^(5/2)
--R
--R
--R (1)      4      3      2      +-----+ +-----+ +-----+
--R      (- 150x - 205x - 34x + 51x + 18)\|- 2x + 1 \|3x + 2 \|5x + 3
--R
--R                                         Type: Expression(Integer)

```

```

--E 97

--S 98 of 300
--r0:=2/65*(1-2*x)^(3/2)*(2+3*x)^(3/2)*(3+5*x)^(7/2)+_
--      134992031/26061750*elliptic_f(asin(sqrt(3/7)*_
--      sqrt(1-2*x)),35/33)/sqrt(33)-9380126059/52123500*_
--      elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)/sqrt(35)+_
--      62/3575*(2+3*x)^(3/2)*(3+5*x)^(7/2)*sqrt(1-2*x)-_
--      2133359/6756750*(3+5*x)^(3/2)*sqrt(1-2*x)*sqrt(2+3*x)-_
--      160084/3378375*(3+5*x)^(5/2)*sqrt(1-2*x)*sqrt(2+3*x)-_
--      67/160875*(3+5*x)^(7/2)*sqrt(1-2*x)*sqrt(2+3*x)-_
--      70536439/30405375*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 98

--S 99 of 300
--d0:=t0-D(r0,x)
--E 99

)clear all

--S 100 of 300
t0:=(1-2*x)^(3/2)*(3+5*x)^(5/2)*sqrt(2+3*x)
--R
--R
--R      3      2      +-----+ +-----+ +-----+
--R      (1)  (- 50x  - 35x  + 12x + 9)\|- 2x + 1 \|3x + 2 \|5x + 3
--R                                         Type: Expression(Integer)
--E 100

--S 101 of 300
--r0:=2810993/1202850*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--      sqrt(33)-97540001/1202850*elliptic_e(asin(sqrt(5/11)*_
--      sqrt(1-2*x)),33/35)/sqrt(35)+2/55*(1-2*x)^(3/2)*(3+5*x)^(7/2)*_
--      sqrt(2+3*x)-22576/155925*(3+5*x)^(3/2)*sqrt(1-2*x)*sqrt(2+3*x)-_
--      2377/155925*(3+5*x)^(5/2)*sqrt(1-2*x)*sqrt(2+3*x)+_
--      194/7425*(3+5*x)^(7/2)*sqrt(1-2*x)*sqrt(2+3*x)-_
--      2930159/2806650*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 101

--S 102 of 300
--d0:=t0-D(r0,x)
--E 102

)clear all

--S 103 of 300
t0:=(1-2*x)^(3/2)*(3+5*x)^(5/2)/sqrt(2+3*x)
--R
--R
--R      3      2      +-----+ +-----+

```

```

--R      (- 50x3 - 35x2 + 12x + 9)\|- 2x + 1 \|5x + 3
--R      (1) -----
--R                           +---+
--R                           \|3x + 2
--R
--E 103                                         Type: Expression(Integer)

--S 104 of 300
--r0:=14101/10935*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)-_
--     886499/21870*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)/_
--     sqrt(35)+2/27*(1-2*x)^(3/2)*(3+5*x)^(5/2)*sqrt(2+3*x)-_
--     499/2835*(3+5*x)^(3/2)*sqrt(1-2*x)*sqrt(2+3*x)+_
--     46/567*(3+5*x)^(5/2)*sqrt(1-2*x)*sqrt(2+3*x)-_
--     11908/25515*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 104

--S 105 of 300
--d0:=t0-D(r0,x)
--E 105

)clear all

--S 106 of 300
t0:=(1-2*x)^(3/2)*(3+5*x)^(5/2)/(2+3*x)^(3/2)
--R
--R
--R      3      2      +-----+ +-----+
--R      (- 50x3 - 35x2 + 12x + 9)\|- 2x + 1 \|5x + 3
--R      (1) -----
--R                           +---+
--R                           (3x + 2)\|3x + 2
--R
--E 106                                         Type: Expression(Integer)

--S 107 of 300
--r0:=-835/243*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)-_
--     2894/243*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)/_
--     sqrt(35)-2/3*(1-2*x)^(3/2)*(3+5*x)^(5/2)/sqrt(2+3*x)+_
--     202/63*(3+5*x)^(3/2)*sqrt(1-2*x)*sqrt(2+3*x)-_
--     32/63*(3+5*x)^(5/2)*sqrt(1-2*x)*sqrt(2+3*x)-_
--     1061/567*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 107

--S 108 of 300
--d0:=t0-D(r0,x)
--E 108

)clear all

--S 109 of 300

```

```

t0:=(1-2*x)^(3/2)*(3+5*x)^(5/2)/(2+3*x)^(5/2)
--R
--R
--R      3      2      +-----+ +-----+
--R      (- 50x  - 35x  + 12x + 9)\|- 2x + 1 \|5x + 3
--R      (1) -----
--R                  2      +-----+
--R                  (9x  + 12x + 4)\|3x + 2
--R
--R                                         Type: Expression(Integer)
--E 109

--S 110 of 300
--r0:=-2/9*(1-2*x)^(3/2)*(3+5*x)^(5/2)/(2+3*x)^(3/2)-
--    9587/729*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*_
--    sqrt(7/5)+21206/729*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--    sqrt(33)+362/27*(3+5*x)^(5/2)*sqrt(1-2*x)/sqrt(2+3*x)-
--    614/27*(3+5*x)^(3/2)*sqrt(1-2*x)*sqrt(2+3*x)+2632/243*_
--    sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 110

--S 111 of 300
--d0:=t0-D(r0,x)
--E 111

)clear all

--S 112 of 300
t0:=(1-2*x)^(3/2)*(3+5*x)^(5/2)/(2+3*x)^(7/2)
--R
--R
--R      3      2      +-----+ +-----+
--R      (- 50x  - 35x  + 12x + 9)\|- 2x + 1 \|5x + 3
--R      (1) -----
--R                  3      2      +-----+
--R                  (27x  + 54x  + 36x + 8)\|3x + 2
--R
--R                                         Type: Expression(Integer)
--E 112

--S 113 of 300
--r0:=-2/15*(1-2*x)^(3/2)*(3+5*x)^(5/2)/(2+3*x)^(5/2)-
--    47422/729*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--    sqrt(33)+116854/729*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)/_
--    sqrt(35)+362/135*(3+5*x)^(5/2)*sqrt(1-2*x)/(2+3*x)^(3/2)+_
--    9808/945*(3+5*x)^(3/2)*sqrt(1-2*x)/sqrt(2+3*x)-
--    43214/1701*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 113

--S 114 of 300
--d0:=t0-D(r0,x)
--E 114

```

```

)clear all

--S 115 of 300
t0:=(1-2*x)^(3/2)*(3+5*x)^(5/2)/(2+3*x)^(9/2)
--R
--R
--R
$$(1) \frac{(-50x^3 - 35x^2 + 12x + 9)\sqrt{-2x + 1}\sqrt{5x + 3}}{(81x^4 + 216x^3 + 216x^2 + 96x + 16)\sqrt{3x + 2}}$$

--R
--E 115                                         Type: Expression(Integer)

--S 116 of 300
--r0:=-2/21*(1-2*x)^(3/2)*(3+5*x)^(5/2)/(2+3*x)^(7/2)+_
--      290204/11907*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--      sqrt(33)-962678/11907*elliptic_e(asin(sqrt(5/11)*_
--      sqrt(1-2*x)),33/35)/sqrt(35)+2108/6615*(3+5*x)^(3/2)*_
--      sqrt(1-2*x)/(2+3*x)^(3/2)+362/315*(3+5*x)^(5/2)*_
--      sqrt(1-2*x)/(2+3*x)^(5/2)+249448/138915*sqrt(1-2*x)*_
--      sqrt(3+5*x)/sqrt(2+3*x)
--E 116

--S 117 of 300
--d0:=t0-D(r0,x)
--E 117

)clear all

--S 118 of 300
t0:=(1-2*x)^(3/2)*(3+5*x)^(5/2)/(2+3*x)^(11/2)
--R
--R
--R
$$(1) \frac{(-50x^3 - 35x^2 + 12x + 9)\sqrt{-2x + 1}\sqrt{5x + 3}}{(243x^5 + 810x^4 + 1080x^3 + 720x^2 + 240x + 32)\sqrt{3x + 2}}$$

--R
--E 118                                         Type: Expression(Integer)

--S 119 of 300
--r0:=-2/27*(1-2*x)^(3/2)*(3+5*x)^(5/2)/(2+3*x)^(9/2)-_
--      600868/750141*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--      sqrt(33)-17830424/750141*elliptic_e(asin(sqrt(5/11)*_
--      sqrt(1-2*x)),33/35)/sqrt(35)-1864/6615*(3+5*x)^(3/2)*_
--      sqrt(1-2*x)/(2+3*x)^(5/2)+362/567*(3+5*x)^(5/2)*_
--      sqrt(1-2*x)/(2+3*x)^(7/2)-558524/1250235*sqrt(1-2*x)*_

```

```

--      sqrt(3+5*x)/(2+3*x)^(3/2)+17830424/8751645*sqrt(1-2*x)*_
--      sqrt(3+5*x)/sqrt(2+3*x)
--E 119

--S 120 of 300
--d0:=t0-D(r0,x)
--E 120

)clear all

--S 121 of 300
t0:=(1-2*x)^(3/2)*(3+5*x)^(5/2)/(2+3*x)^(13/2)
--R
--R
--R
--R      3      2      +-----+ +-----+
--R      (- 50x  - 35x  + 12x + 9)\|- 2x + 1 \|5x + 3
--R      (1) -----
--R      6      5      4      3      2      +-----+
--R      (729x  + 2916x  + 4860x  + 4320x  + 2160x  + 576x + 64)\|3x + 2
--R
--R                                         Type: Expression(Integer)
--E 121

--S 122 of 300
--r0:=-2/33*(1-2*x)^(3/2)*(3+5*x)^(5/2)/(2+3*x)^(11/2)+_
--      91496584/57760857*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--      sqrt(33)-3316711588/57760857*elliptic_e(asin(sqrt(5/11)*_
--      sqrt(1-2*x)),33/35)/sqrt(35)-13292/43659*(3+5*x)^(3/2)*_
--      sqrt(1-2*x)/(2+3*x)^(7/2)+362/891*(3+5*x)^(5/2)*sqrt(1-2*x)/_
--      (2+3*x)^(9/2)-1366496/4584195*sqrt(1-2*x)*sqrt(3+5*x)/_
--      (2+3*x)^(5/2)+45748292/96268095*sqrt(1-2*x)*sqrt(3+5*x)/_
--      (2+3*x)^(3/2)+3316711588/673876665*sqrt(1-2*x)*sqrt(3+5*x)/sqrt(2+3*x)
--E 122

--S 123 of 300
--d0:=t0-D(r0,x)
--E 123

)clear all

--S 124 of 300
t0:=(1-2*x)^(3/2)*(3+5*x)^(5/2)/(2+3*x)^(15/2)
--R
--R
--R      (1)
--R      3      2      +-----+ +-----+
--R      (- 50x  - 35x  + 12x + 9)\|- 2x + 1 \|5x + 3
--R      /
--R      7      6      5      4      3      2
--R      (2187x  + 10206x  + 20412x  + 22680x  + 15120x  + 6048x  + 1344x + 128)
--R      *

```

```

--R      +-----+
--R      \|3x + 2
--R
--E 124                                         Type: Expression(Integer)

--S 125 of 300
--r0:=-2/39*(1-2*x)^(3/2)*(3+5*x)^(5/2)/(2+3*x)^(13/2)+_
--    7046965448/1752079329*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--    sqrt(33)-245282464136/1752079329*elliptic_e(asin(sqrt(5/11)*_
--    sqrt(1-2*x)),33/35)/sqrt(35)-20992/81081*(3+5*x)^(3/2)*_
--    sqrt(1-2*x)/(2+3*x)^(9/2)+362/1287*(3+5*x)^(5/2)*_
--    sqrt(1-2*x)/(2+3*x)^(11/2)-2174468/11918907*sqrt(1-2*x)*_
--    sqrt(3+5*x)/(2+3*x)^(7/2)+73596464/417161745*sqrt(1-2*x)*_
--    sqrt(3+5*x)/(2+3*x)^(5/2)+3523482724/2920132215*sqrt(1-2*x)*_
--    sqrt(3+5*x)/(2+3*x)^(3/2)+245282464136/20440925505*_
--    sqrt(1-2*x)*sqrt(3+5*x)/sqrt(2+3*x)
--E 125

--S 126 of 300
--d0:=t0-D(r0,x)
--E 126

)clear all

--S 127 of 300
t0:=(1-2*x)^(3/2)*(2+3*x)^(5/2)/sqrt(3+5*x)
--R
--R
--R      3      2      +-----+ +-----+
--R      (- 18x  - 15x  + 4x + 4)\|- 2x + 1 \|3x + 2
--R      (1) -----
--R                           +-----+
--R                           \|5x + 3
--R
--E 127                                         Type: Expression(Integer)

--S 128 of 300
--r0:=87476/253125*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--    sqrt(33)-6515539/506250*elliptic_e(asin(sqrt(5/11)*_
--    sqrt(1-2*x)),33/35)/sqrt(35)+2/45*(1-2*x)^(3/2)*(2+3*x)^(5/2)*_
--    sqrt(3+5*x)+403/118125*(2+3*x)^(3/2)*sqrt(1-2*x)*sqrt(3+5*x)+_
--    178/4725*(2+3*x)^(5/2)*sqrt(1-2*x)*sqrt(3+5*x)-87476/590625*_
--    sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 128

--S 129 of 300
--d0:=t0-D(r0,x)
--E 129

)clear all

```

```

--S 130 of 300
t0:=(1-2*x)^(3/2)*(2+3*x)^(3/2)/sqrt(3+5*x)
--R
--R
--R      2      +-----+ +-----+
--R      (- 6x  - x + 2)\|- 2x + 1 \|\|3x + 2
--R      (1) -----
--R                  +-----+
--R                  \|\|5x + 3
--R
--R
--E 130                                         Type: Expression(Integer)

--S 131 of 300
--r0:=487/5625*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)-
--    46159/5625*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)/_
--    sqrt(35)+2/35*(1-2*x)^(3/2)*(2+3*x)^(3/2)*sqrt(3+5*x)+_
--    62/875*(2+3*x)^(3/2)*sqrt(1-2*x)*sqrt(3+5*x)-487/13125*_
--    sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 131

--S 132 of 300
--d0:=t0-D(r0,x)
--E 132

)clear all

--S 133 of 300
t0:=(1-2*x)^(3/2)*sqrt(2+3*x)/sqrt(3+5*x)
--R
--R
--R      +-----+ +-----+
--R      (- 2x + 1)\|- 2x + 1 \|\|3x + 2
--R      (1) -----
--R                  +-----+
--R                  \|\|5x + 3
--R
--R
--E 133                                         Type: Expression(Integer)

--S 134 of 300
--r0:=-2797/3375*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*_
--    sqrt(7/5)-2828/3375*elliptic_f(asin(sqrt(3/7)*_
--    sqrt(1-2*x)),35/33)/sqrt(33)+2/25*(1-2*x)^(3/2)*sqrt(2+3*x)*_
--    sqrt(3+5*x)+194/1125*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 134

--S 135 of 300
--d0:=t0-D(r0,x)
--E 135

```

```

)clear all

--S 136 of 300
t0:=(1-2*x)^(3/2)/(sqrt(2+3*x)*sqrt(3+5*x))
--R
--R
--R
$$(1) \frac{(-2x + 1)\sqrt{-2x + 1}}{\sqrt{3x + 2}\sqrt{5x + 3}}$$

--R
--R
--E 136                                         Type: Expression(Integer)

--S 137 of 300
--r0:=272/135*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*sqrt(7/5)-
--      1442/135*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--      sqrt(33)-4/45*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 137

--S 138 of 300
--d0:=t0-D(r0,x)
--E 138

)clear all

--S 139 of 300
t0:=(1-2*x)^(3/2)/((2+3*x)^(3/2)*sqrt(3+5*x))
--R
--R
--R
$$(1) \frac{(-2x + 1)\sqrt{-2x + 1}}{(3x + 2)\sqrt{3x + 2}\sqrt{5x + 3}}$$

--R
--R
--E 139                                         Type: Expression(Integer)

--S 140 of 300
--r0:=-74/9*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*sqrt(7/5)+_
--      56/9*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)+_
--      2*(1-2*x)^(3/2)*sqrt(3+5*x)/sqrt(2+3*x)+4/3*sqrt(1-2*x)*_
--      sqrt(2+3*x)*sqrt(3+5*x)
--E 140

--S 141 of 300
--d0:=t0-D(r0,x)
--E 141

)clear all

```

```

--S 142 of 300
t0:=(1-2*x)^(3/2)/((2+3*x)^(5/2)*sqrt(3+5*x))
--R
--R
--R
$$(1) \frac{(-2x + 1)\sqrt{-2x + 1}}{(9x^2 + 12x + 4)\sqrt{3x + 2}\sqrt{5x + 3}}$$

--R
--R                                         Type: Expression(Integer)
--E 142

--S 143 of 300
--r0:=116/27*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)-
--    124/27*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*_
--    sqrt(35)+2/3*(1-2*x)^(3/2)*sqrt(3+5*x)/(2+3*x)^(3/2)+_
--    128/9*sqrt(1-2*x)*sqrt(3+5*x)/sqrt(2+3*x)
--E 143

--S 144 of 300
--d0:=t0-D(r0,x)
--E 144

)clear all

--S 145 of 300
t0:=(1-2*x)^(3/2)/((2+3*x)^(7/2)*sqrt(3+5*x))
--R
--R
--R
$$(1) \frac{(-2x + 1)\sqrt{-2x + 1}}{(27x^3 + 54x^2 + 36x + 8)\sqrt{3x + 2}\sqrt{5x + 3}}$$

--R
--R                                         Type: Expression(Integer)
--E 145

--S 146 of 300
--r0:=512/27*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)-
--    17804/27*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)/_
--    sqrt(35)+2/5*(1-2*x)^(3/2)*sqrt(3+5*x)/(2+3*x)^(5/2)+_
--    268/45*sqrt(1-2*x)*sqrt(3+5*x)/(2+3*x)^(3/2)+17804/315*_
--    sqrt(1-2*x)*sqrt(3+5*x)/sqrt(2+3*x)
--E 146

--S 147 of 300
--d0:=t0-D(r0,x)
--E 147

```

```

)clear all

--S 148 of 300
t0:=(1-2*x)^(3/2)/((2+3*x)^(9/2)*sqrt(3+5*x))
--R
--R
--R
--R      +-----+
--R      (- 2x + 1)\|- 2x + 1
--R      (1)  -----
--R      4      3      2      +-----+ +-----+
--R      (81x  + 216x  + 216x  + 96x + 16)\|3x + 2 \|5x + 3
--R
--R                                         Type: Expression(Integer)
--E 148

--S 149 of 300
--r0:=36136/441*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)-
--      1255552/441*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)/_
--      sqrt(35)+2/7*(1-2*x)^(3/2)*sqrt(3+5*x)/(2+3*x)^(7/2)+_
--      136/35*sqrt(1-2*x)*sqrt(3+5*x)/(2+3*x)^(5/2)+18068/735*_
--      sqrt(1-2*x)*sqrt(3+5*x)/(2+3*x)^(3/2)+1255552/5145*_
--      sqrt(1-2*x)*sqrt(3+5*x)/sqrt(2+3*x)
--E 149

--S 150 of 300
--d0:=t0-D(r0,x)
--E 150

)clear all

--S 151 of 300
t0:=(1-2*x)^(3/2)*(2+3*x)^(7/2)/(3+5*x)^(3/2)
--R
--R
--R      4      3      2      +-----+ +-----+
--R      (- 54x  - 81x  - 18x  + 20x + 8)\|- 2x + 1 \|3x + 2
--R      (1)  -----
--R
--R      +-----+
--R      (5x + 3)\|5x + 3
--R
--R                                         Type: Expression(Integer)
--E 151

--S 152 of 300
--r0:=12601/84375*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--      sqrt(33)-1473539/168750*elliptic_e(asin(sqrt(5/11)*_
--      sqrt(1-2*x)),33/35)/sqrt(35)-2/5*(1-2*x)^(3/2)*(2+3*x)^(7/2)/_
--      sqrt(3+5*x)+5153/39375*(2+3*x)^(3/2)*sqrt(1-2*x)*sqrt(3+5*x)+_
--      958/1575*(2+3*x)^(5/2)*sqrt(1-2*x)*sqrt(3+5*x)-8/45*(2+3*x)^(7/2)*_
--      sqrt(1-2*x)*sqrt(3+5*x)-12601/196875*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 152

```

```

--S 153 of 300
--d0:=t0-D(r0,x)
--E 153

)clear all

--S 154 of 300
t0:=(1-2*x)^(3/2)*(2+3*x)^(5/2)/(3+5*x)^(3/2)
--R
--R
--R
$$(1) \frac{(-18x^3 - 15x^2 + 4x + 4)\sqrt{-2x + 1}\sqrt{3x + 2}}{(5x + 3)\sqrt{5x + 3}}$$

--R
--R
--R                                         Type: Expression(Integer)
--E 154

--S 155 of 300
--r0:=-2719/9375*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)-_
--    47342/9375*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)/_
--    sqrt(35)-2/5*(1-2*x)^(3/2)*(2+3*x)^(5/2)/sqrt(3+5*x)+_
--    2818/4375*(2+3*x)^(3/2)*sqrt(1-2*x)*sqrt(3+5*x)-_
--    32/175*(2+3*x)^(5/2)*sqrt(1-2*x)*sqrt(3+5*x)+_
--    2719/21875*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 155

--S 156 of 300
--d0:=t0-D(r0,x)
--E 156

)clear all

--S 157 of 300
t0:=(1-2*x)^(3/2)*(2+3*x)^(3/2)/(3+5*x)^(3/2)
--R
--R
--R
$$(1) \frac{(-6x^2 - x + 2)\sqrt{-2x + 1}\sqrt{3x + 2}}{(5x + 3)\sqrt{5x + 3}}$$

--R
--R
--R                                         Type: Expression(Integer)
--E 157

--S 158 of 300
--r0:=-169/1875*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*_
--    sqrt(7/5)-3206/1875*elliptic_f(asin(sqrt(3/7)*_
--    sqrt(1-2*x)),35/33)/sqrt(33)-2/5*(1-2*x)^(3/2)*(2+3*x)^(3/2)/_
--    sqrt(3+5*x)-24/125*(2+3*x)^(3/2)*sqrt(1-2*x)*sqrt(3+5*x)+_

```

```

--      458/625*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 158

--S 159 of 300
--d0:=t0-D(r0,x)
--E 159

)clear all

--S 160 of 300
t0:=(1-2*x)^(3/2)*sqrt(2+3*x)/(3+5*x)^(3/2)
--R
--R
--R
$$(1) \frac{(-2x + 1)\sqrt{-2x + 1}\sqrt{3x + 2}}{(5x + 3)\sqrt{5x + 3}}$$

--R
--R
--R                                         Type: Expression(Integer)
--E 160

--S 161 of 300
--r0:=458/225*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*sqrt(7/5)-
--    1358/225*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--    sqrt(33)-2/5*(1-2*x)^(3/2)*sqrt(2+3*x)/sqrt(3+5*x)-
--    16/75*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 161

--S 162 of 300
--d0:=t0-D(r0,x)
--E 162

)clear all

--S 163 of 300
t0:=(1-2*x)^(3/2)/((3+5*x)^(3/2)*sqrt(2+3*x))
--R
--R
--R
$$(1) \frac{(-2x + 1)\sqrt{-2x + 1}}{(5x + 3)\sqrt{3x + 2}\sqrt{5x + 3}}$$

--R
--R
--R                                         Type: Expression(Integer)
--E 163

--S 164 of 300
--r0:=62/15*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*sqrt(7/5)+_
--    28/15*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)-
--    2*(1-2*x)^(3/2)*sqrt(2+3*x)/sqrt(3+5*x)-4/5*sqrt(1-2*x)*_

```

```

--      sqrt(2+3*x)*sqrt(3+5*x)
--E 164

--S 165 of 300
--d0:=t0-D(r0,x)
--E 165

)clear all

--S 166 of 300
t0:=(1-2*x)^(3/2)/((2+3*x)^(3/2)*(3+5*x)^(3/2))
--R
--R
--R
$$(1) \frac{(-2x + 1)\sqrt{-2x + 1}}{(15x^2 + 19x + 6)\sqrt{3x^2 + 2}\sqrt{5x + 3}}$$

--R
--R                                         Type: Expression(Integer)
--E 166

--S 167 of 300
--r0:=136/3*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*sqrt(7/5)-
--    28/3*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)+_
--    2*(1-2*x)^(3/2)/(sqrt(2+3*x)*sqrt(3+5*x))-44*sqrt(1-2*x)*_
--    sqrt(2+3*x)/sqrt(3+5*x)
--E 167

--S 168 of 300
--d0:=t0-D(r0,x)
--E 168

)clear all

--S 169 of 300
t0:=(1-2*x)^(3/2)/((2+3*x)^(5/2)*(3+5*x)^(3/2))
--R
--R
--R
$$(1) \frac{(-2x + 1)\sqrt{-2x + 1}}{(45x^3 + 87x^2 + 56x + 12)\sqrt{3x^2 + 2}\sqrt{5x + 3}}$$

--R
--R                                         Type: Expression(Integer)
--E 169

--S 170 of 300
--r0:=-536/9*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)+_
--    532/9*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*_
--    sqrt(35)+2/3*(1-2*x)^(3/2)/((2+3*x)^(3/2)*sqrt(3+5*x))+_

```

```

--      268/9*sqrt(1-2*x)/(sqrt(2+3*x)*sqrt(3+5*x))-2660/9*_
--      sqrt(1-2*x)*sqrt(2+3*x)/sqrt(3+5*x)
--E 170

--S 171 of 300
--d0:=t0-D(r0,x)
--E 171

)clear all

--S 172 of 300
t0:=(1-2*x)^(3/2)/((2+3*x)^(7/2)*(3+5*x)^(3/2))
--R
--R
--R
--R      +-----+
--R      (- 2x + 1)\|- 2x + 1
--R      (1) -----
--R      4      3      2      +-----+ +-----+
--R      (135x  + 351x  + 342x  + 148x + 24)\|3x + 2 \|5x + 3
--R
--R                                         Type: Expression(Integer)
--E 172

--S 173 of 300
--r0:=-1064/3*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)+_
--      36968/3*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)/_
--      sqrt(35)+2/5*(1-2*x)^(3/2)/((2+3*x)^(5/2)*sqrt(3+5*x))+_
--      136/15*sqrt(1-2*x)/((2+3*x)^(3/2)*sqrt(3+5*x))+6116/35*_
--      sqrt(1-2*x)/(sqrt(2+3*x)*sqrt(3+5*x))-36968/21*sqrt(1-2*x)*_
--      sqrt(2+3*x)/sqrt(3+5*x)
--E 173

--S 174 of 300
--d0:=t0-D(r0,x)
--E 174

)clear all

--S 175 of 300
t0:=(1-2*x)^(3/2)/((2+3*x)^(9/2)*(3+5*x)^(3/2))
--R
--R
--R
--R      +-----+
--R      (- 2x + 1)\|- 2x + 1
--R      (1) -----
--R      5      4      3      2      +-----+ +-----+
--R      (405x  + 1323x  + 1728x  + 1128x  + 368x + 48)\|3x + 2 \|5x + 3
--R
--R                                         Type: Expression(Integer)
--E 175

--S 176 of 300

```

```

--r0:=-296816/147*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)+_
--      10312712/147*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)/_
--      sqrt(35)+2/7*(1-2*x)^(3/2)/((2+3*x)^(7/2)*sqrt(3+5*x))+_
--      548/105*sqrt(1-2*x)/((2+3*x)^(5/2)*sqrt(3+5*x))+12276/245*_
--      sqrt(1-2*x)/((2+3*x)^(3/2)*sqrt(3+5*x))+1706144/1715*_
--      sqrt(1-2*x)/(sqrt(2+3*x)*sqrt(3+5*x))-10312712/1029*sqrt(1-2*x)*_
--      sqrt(2+3*x)/sqrt(3+5*x)
--E 176

--S 177 of 300
--d0:=t0-D(r0,x)
--E 177

)clear all

--S 178 of 300
t0:=(1-2*x)^(3/2)*(2+3*x)^(7/2)/(3+5*x)^(5/2)
--R
--R
--R      4      3      2      +-----+ +-----+
--R      (- 54x  - 81x  - 18x  + 20x  + 8)\|- 2x  + 1 \|3x  + 2
--R      (1) -----
--R                  2      +-----+
--R                  (25x  + 30x  + 9)\|5x  + 3
--R
--R                                         Type: Expression(Integer)
--E 178

--S 179 of 300
--r0:=-2/15*(1-2*x)^(3/2)*(2+3*x)^(7/2)/(3+5*x)^(3/2)-_
--      4801/9375*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)-_
--      25643/9375*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)/_
--      sqrt(35)-6*(2+3*x)^(7/2)*sqrt(1-2*x)/sqrt(3+5*x)+_
--      3872/4375*(2+3*x)^(3/2)*sqrt(1-2*x)*sqrt(3+5*x)+_
--      622/175*(2+3*x)^(5/2)*sqrt(1-2*x)*sqrt(3+5*x)+_
--      4801/21875*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 179

--S 180 of 300
--d0:=t0-D(r0,x)
--E 180

)clear all

--S 181 of 300
t0:=(1-2*x)^(3/2)*(2+3*x)^(5/2)/(3+5*x)^(5/2)
--R
--R
--R      3      2      +-----+ +-----+
--R      (- 18x  - 15x  + 4x  + 4)\|- 2x  + 1 \|3x  + 2
--R      (1) -----

```

```

--R          2      +-----+
--R          (25x  + 30x + 9)\|5x + 3
--R
--R                                          Type: Expression(Integer)
--E 181

--S 182 of 300
--r0:=-2/15*(1-2*x)^(3/2)*(2+3*x)^(5/2)/(3+5*x)^(3/2)+_
--    1973/9375*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*_
--    sqrt(7/5)-15848/9375*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--    sqrt(33)-106/25*(2+3*x)^(5/2)*sqrt(1-2*x)/sqrt(3+5*x)+_
--    1558/625*(2+3*x)^(3/2)*sqrt(1-2*x)*sqrt(3+5*x)+2264/3125*_
--    sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 182

--S 183 of 300
--d0:=t0-D(r0,x)
--E 183

)clear all

--S 184 of 300
t0:=(1-2*x)^(3/2)*(2+3*x)^(3/2)/(3+5*x)^(5/2)
--R
--R
--R          2      +-----+ +-----+
--R          (- 6x  - x + 2)\|- 2x + 1 \|3x + 2
--R (1) -----
--R          2      +-----+
--R          (25x  + 30x + 9)\|5x + 3
--R
--R                                          Type: Expression(Integer)
--E 184

--S 185 of 300
--r0:=-2/15*(1-2*x)^(3/2)*(2+3*x)^(3/2)/(3+5*x)^(3/2)+_
--    496/375*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*_
--    sqrt(7/5)-1246/375*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--    sqrt(33)-62/25*(2+3*x)^(3/2)*sqrt(1-2*x)/sqrt(3+5*x)+_
--    178/125*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 185

--S 186 of 300
--d0:=t0-D(r0,x)
--E 186

)clear all

--S 187 of 300
t0:=(1-2*x)^(3/2)*sqrt(2+3*x)/(3+5*x)^(5/2)
--R
--R

```

```

--R      +-----+ +-----+
--R      (- 2x + 1)\|- 2x + 1 \|3x + 2
--R      (1) -----
--R      2      +-----+
--R      (25x  + 30x + 9)\|5x + 3
--R
--E 187                                         Type: Expression(Integer)

--S 188 of 300
--r0:=38/75*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*sqrt(7/5)+_
--    112/75*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)-_
--    2/15*(1-2*x)^(3/2)*sqrt(2+3*x)/(3+5*x)^(3/2)-_
--    18/25*sqrt(1-2*x)*sqrt(2+3*x)/sqrt(3+5*x)
--E 188

--S 189 of 300
--d0:=t0-D(r0,x)
--E 189

)clear all

--S 190 of 300
t0:=(1-2*x)^(3/2)/((3+5*x)^(5/2)*sqrt(2+3*x))
--R
--R
--R      +-----+
--R      (- 2x + 1)\|- 2x + 1
--R      (1) -----
--R      2      +-----+ +-----+
--R      (25x  + 30x + 9)\|3x + 2 \|5x + 3
--R
--E 190                                         Type: Expression(Integer)

--S 191 of 300
--r0:=-148/15*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*sqrt(7/5)+_
--    28/15*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)-_
--    2/3*(1-2*x)^(3/2)*sqrt(2+3*x)/(3+5*x)^(3/2)+48/5*sqrt(1-2*x)*_
--    sqrt(2+3*x)/sqrt(3+5*x)
--E 191

--S 192 of 300
--d0:=t0-D(r0,x)
--E 192

)clear all

--S 193 of 300
t0:=(1-2*x)^(3/2)/((2+3*x)^(3/2)*(3+5*x)^(5/2))
--R
--R

```

```

--R
--R
--R      +-----+
--R      (- 2x + 1)\|- 2x + 1
--R      -----
--R      3      2      +-----+ +-----+
--R      (75x  + 140x  + 87x + 18)\|3x + 2 \|5x + 3
--R
--R                                          Type: Expression(Integer)
--E 193

--S 194 of 300
--r0:=-556/3*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*sqrt(7/5)+_
--    112/3*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)+_
--    2*(1-2*x)^(3/2)/((3+5*x)^(3/2)*sqrt(2+3*x))-88/3*sqrt(1-2*x)*_
--    sqrt(2+3*x)/(3+5*x)^(3/2)+556/3*sqrt(1-2*x)*sqrt(2+3*x)/sqrt(3+5*x)
--E 194

--S 195 of 300
--d0:=t0-D(r0,x)
--E 195

)clear all

--S 196 of 300
t0:=(1-2*x)^(3/2)/((2+3*x)^(5/2)*(3+5*x)^(5/2))
--R
--R
--R      +-----+
--R      (- 2x + 1)\|- 2x + 1
--R      -----
--R      4      3      2      +-----+ +-----+
--R      (225x  + 570x  + 541x  + 228x + 36)\|3x + 2 \|5x + 3
--R
--R                                          Type: Expression(Integer)
--E 196

--S 197 of 300
--r0:=2/3*(1-2*x)^(3/2)/((2+3*x)^(3/2)*(3+5*x)^(3/2))+_
--    1096/3*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)-_
--    1088/3*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*sqrt(35)+_
--    136/3*sqrt(1-2*x)/((3+5*x)^(3/2)*sqrt(2+3*x))-300*sqrt(1-2*x)*_
--    sqrt(2+3*x)/(3+5*x)^(3/2)+5440/3*sqrt(1-2*x)*sqrt(2+3*x)/sqrt(3+5*x)
--E 197

--S 198 of 300
--d0:=t0-D(r0,x)
--E 198

)clear all

--S 199 of 300
t0:=(1-2*x)^(3/2)/((2+3*x)^(7/2)*(3+5*x)^(5/2))
--R

```

```

--R
--R
--R      +-----+
--R      (- 2x + 1)\|- 2x + 1
--R      (1) -----
--R      5      4      3      2      +-----+ +-----+
--R      (675x  + 2160x  + 2763x  + 1766x  + 564x + 72)\|3x + 2 \|5x + 3
--R
--R                                         Type: Expression(Integer)
--E 199

--S 200 of 300
--r0:=2/5*(1-2*x)^(3/2)/((2+3*x)^(5/2)*(3+5*x)^(3/2))+_
--     8672/3*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)-_
--     301304/3*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)/_
--     sqrt(35)+548/45*sqrt(1-2*x)/((2+3*x)^(3/2)*(3+5*x)^(3/2))+_
--     111884/315*sqrt(1-2*x)/((3+5*x)^(3/2)*sqrt(2+3*x))-_
--     16616/7*sqrt(1-2*x)*sqrt(2+3*x)/(3+5*x)^(3/2)+_
--     301304/21*sqrt(1-2*x)*sqrt(2+3*x)/sqrt(3+5*x)
--E 200

--S 201 of 300
--d0:=t0-D(r0,x)
--E 201

)clear all

--S 202 of 300
t0:=(1-2*x)^(5/2)*(2+3*x)^(5/2)*sqrt(3+5*x)
--R
--R
--R      4      3      2      +-----+ +-----+ +-----+
--R      (1) (36x  + 12x  - 23x  - 4x + 4)\|- 2x + 1 \|3x + 2 \|5x + 3
--R
--R                                         Type: Expression(Integer)
--E 202

--S 203 of 300
--r0:=62/2145*(1-2*x)^(3/2)*(2+3*x)^(5/2)*(3+5*x)^(3/2)+_
--     2/65*(1-2*x)^(5/2)*(2+3*x)^(5/2)*(3+5*x)^(3/2)+_
--     67138787/72393750*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--     sqrt(33)-1163388067/36196875*elliptic_e(asin(sqrt(5/11)*_
--     sqrt(1-2*x)),33/35)/sqrt(35)+32717/1126125*(2+3*x)^(3/2)*_
--     (3+5*x)^(3/2)*sqrt(1-2*x)+34/2475*(2+3*x)^(5/2)*(3+5*x)^(3/2)*_
--     sqrt(1-2*x)-445024/9384375*(3+5*x)^(3/2)*sqrt(1-2*x)*_
--     sqrt(2+3*x)-69808931/168918750*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 203

--S 204 of 300
--d0:=t0-D(r0,x)
--E 204

)clear all

```

```

--S 205 of 300
t0:=(1-2*x)^(5/2)*(2+3*x)^(3/2)*sqrt(3+5*x)
--R
--R
--R      3      2      +-----+ +-----+ +-----+
--R      (1)  (12x  - 4x  - 5x + 2)\|- 2x + 1 \|3x + 2 \|5x + 3
--R
--R                                         Type: Expression(Integer)
--E 205

--S 206 of 300
--r0:=106/2475*(1-2*x)^(3/2)*(2+3*x)^(3/2)*(3+5*x)^(3/2)+2/55*(1-2*x)^(5/2)*_
--(2+3*x)^(3/2)*(3+5*x)^(3/2)+4854274/8353125*_  

-- elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)-_
-- 326256461/16706250*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)/_
-- sqrt(35)+2866/86625*(2+3*x)^(3/2)*(3+5*x)^(3/2)*sqrt(1-2*x)+_
-- 38729/2165625*(3+5*x)^(3/2)*sqrt(1-2*x)*sqrt(2+3*x)-_
-- 4738087/19490625*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 206

--S 207 of 300
--d0:=t0-D(r0,x)
--E 207

)clear all

--S 208 of 300
t0:=(1-2*x)^(5/2)*sqrt(2+3*x)*sqrt(3+5*x)
--R
--R
--R      2      +-----+ +-----+ +-----+
--R      (1)  (4x  - 4x + 1)\|- 2x + 1 \|3x + 2 \|5x + 3
--R
--R                                         Type: Expression(Integer)
--E 208

--S 209 of 300
--r0:=284159/455625*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--sqrt(33)-6799613/455625*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)/_
--sqrt(35)+326/4725*(1-2*x)^(3/2)*(3+5*x)^(3/2)*sqrt(2+3*x)+_
--2/45*(1-2*x)^(5/2)*(3+5*x)^(3/2)*sqrt(2+3*x)+_
--10214/118125*(3+5*x)^(3/2)*sqrt(1-2*x)*sqrt(2+3*x)-_
--110717/1063125*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 209

--S 210 of 300
--d0:=t0-D(r0,x)
--E 210

)clear all

```

```

--S 211 of 300
t0:=(1-2*x)^(5/2)*sqrt(3+5*x)/sqrt(2+3*x)
--R
--R
--R      2      +-----+ +-----+
--R      (4x  - 4x + 1)\|- 2x + 1 \|5x + 3
--R      (1) -----
--R                  +-----+
--R                  \|3x + 2
--R
                                         Type: Expression(Integer)
--E 211

--S 212 of 300
--r0:=16088/3375*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)-_
--     86741/3375*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)/sqrt(35)+_
--     118/525*(1-2*x)^(3/2)*sqrt(2+3*x)*sqrt(3+5*x)+2/21*(1-2*x)^(5/2)*_
--     sqrt(2+3*x)*sqrt(3+5*x)+4282/7875*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 212

--S 213 of 300
--d0:=t0-D(r0,x)
--E 213

)clear all

--S 214 of 300
t0:=(1-2*x)^(5/2)*sqrt(3+5*x)/(2+3*x)^(3/2)
--R
--R
--R      2      +-----+ +-----+
--R      (4x  - 4x + 1)\|- 2x + 1 \|5x + 3
--R      (1) -----
--R                  +-----+
--R                  (3x + 2)\|3x + 2
--R
                                         Type: Expression(Integer)
--E 214

--S 215 of 300
--r0:=31588/2025*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*_
--     sqrt(7/5)-96838/2025*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--     sqrt(33)-2/3*(1-2*x)^(5/2)*sqrt(3+5*x)/sqrt(2+3*x)-_
--     8/15*(1-2*x)^(3/2)*sqrt(2+3*x)*sqrt(3+5*x)-1076/675*_
--     sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 215

--S 216 of 300
--d0:=t0-D(r0,x)
--E 216

)clear all

```

```

--S 217 of 300
t0:=(1-2*x)^(5/2)*sqrt(3+5*x)/(2+3*x)^(5/2)
--R
--R
--R      2      +-----+ +-----+
--R      (4x  - 4x + 1)\|- 2x + 1 \|\5x + 3
--R      (1) -----
--R      2      +-----+
--R      (9x  + 12x + 4)\|3x + 2
--R
--R                                         Type: Expression(Integer)
--E 217

--S 218 of 300
--r0:=-4418/243*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*_
--    sqrt(7/5)+8288/243*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--    sqrt(33)-2/9*(1-2*x)^(5/2)*sqrt(3+5*x)/(2+3*x)^(3/2)+_
--    10/3*(1-2*x)^(3/2)*sqrt(3+5*x)/sqrt(2+3*x)+196/81*sqrt(1-2*x)*_
--    sqrt(2+3*x)*sqrt(3+5*x)
--E 218

--S 219 of 300
--d0:=t0-D(r0,x)
--E 219

)clear all

--S 220 of 300
t0:=(1-2*x)^(5/2)*sqrt(3+5*x)/(2+3*x)^(7/2)
--R
--R
--R      2      +-----+ +-----+
--R      (4x  - 4x + 1)\|- 2x + 1 \|\5x + 3
--R      (1) -----
--R      3      2      +-----+
--R      (27x  + 54x  + 36x + 8)\|3x + 2
--R
--R                                         Type: Expression(Integer)
--E 220

--S 221 of 300
--r0:=-12*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*sqrt(7/5)-_
--    4*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)-_
--    2/15*(1-2*x)^(5/2)*sqrt(3+5*x)/(2+3*x)^(5/2)+2/3*(1-2*x)^(3/2)*_
--    sqrt(3+5*x)/(2+3*x)^(3/2)+8*sqrt(1-2*x)*sqrt(3+5*x)/sqrt(2+3*x)
--E 221

--S 222 of 300
--d0:=t0-D(r0,x)
--E 222

```

```

)clear all

--S 223 of 300
t0:=(1-2*x)^(5/2)*sqrt(3+5*x)/(2+3*x)^(9/2)
--R
--R
--R
$$(1) \frac{(4x^2 - 4x + 1)\sqrt{-2x + 1}\sqrt{5x + 3}}{(81x^4 + 216x^3 + 216x^2 + 96x + 16)\sqrt{3x + 2}}$$

--R
--E 223                                         Type: Expression(Integer)

--S 224 of 300
--r0:=-36052/567*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*sqrt(5/7)+_
--      5360/567*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--      sqrt(33)-2/21*(1-2*x)^(5/2)*sqrt(3+5*x)/(2+3*x)^(7/2)+2/7*_
--      (1-2*x)^(3/2)*sqrt(3+5*x)/(2+3*x)^(5/2)+524/189*sqrt(1-2*x)*_
--      sqrt(3+5*x)/(2+3*x)^(3/2)+36052/1323*sqrt(1-2*x)*sqrt(3+5*x)/sqrt(2+3*x)
--E 224

--S 225 of 300
--d0:=t0-D(r0,x)
--E 225

)clear all

--S 226 of 300
t0:=(1-2*x)^(5/2)*sqrt(3+5*x)/(2+3*x)^(11/2)
--R
--R
--R
$$(1) \frac{(4x^2 - 4x + 1)\sqrt{-2x + 1}\sqrt{5x + 3}}{(243x^5 + 810x^4 + 1080x^3 + 720x^2 + 240x + 32)\sqrt{3x + 2}}$$

--R
--E 226                                         Type: Expression(Integer)

--S 227 of 300
--r0:=-7810384/35721*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*_
--      sqrt(5/7)+1124360/35721*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--      sqrt(33)-2/27*(1-2*x)^(5/2)*sqrt(3+5*x)/(2+3*x)^(9/2)+_
--      10/63*(1-2*x)^(3/2)*sqrt(3+5*x)/(2+3*x)^(7/2)+832/567*_
--      sqrt(1-2*x)*sqrt(3+5*x)/(2+3*x)^(5/2)+112436/11907*sqrt(1-2*x)*_
--      sqrt(3+5*x)/(2+3*x)^(3/2)+7810384/83349*sqrt(1-2*x)*_
--      sqrt(3+5*x)/sqrt(2+3*x)
--E 227

```

```

--S 228 of 300
--d0:=t0-D(r0,x)
--E 228

)clear all

--S 229 of 300
t0:=(1-2*x)^(5/2)*sqrt(3+5*x)/(2+3*x)^(13/2)
--R
--R
--R
$$(1) \frac{(4x^2 - 4x + 1)\sqrt{-2x^4 + 1}\sqrt{5x^3 + 3}}{(729x^6 + 2916x^5 + 4860x^4 + 4320x^3 + 2160x^2 + 576x + 64)\sqrt{3x^2 + 2}}$$

--R
--R                                         Type: Expression(Integer)
--E 229

--S 230 of 300
--r0:=-247408648/305613*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*_
--      sqrt(5/7)+35604320/305613*elliptic_f(asin(sqrt(3/7)*_
--      sqrt(1-2*x)),35/33)/sqrt(33)-2/33*(1-2*x)^(5/2)*sqrt(3+5*x)/_
--      (2+3*x)^(11/2)+10/99*(1-2*x)^(3/2)*sqrt(3+5*x)/(2+3*x)^(9/2)+_
--      1900/2079*sqrt(1-2*x)*sqrt(3+5*x)/(2+3*x)^(7/2)+_
--      76492/14553*sqrt(1-2*x)*sqrt(3+5*x)/(2+3*x)^(5/2)+_
--      3560432/101871*sqrt(1-2*x)*sqrt(3+5*x)/(2+3*x)^(3/2)+_
--      247408648/713097*sqrt(1-2*x)*sqrt(3+5*x)/sqrt(2+3*x)
--E 230

--S 231 of 300
--d0:=t0-D(r0,x)
--E 231

)clear all

--S 232 of 300
t0:=(1-2*x)^(5/2)*(2+3*x)^(5/2)*(3+5*x)^(3/2)
--R
--R
--R
$$(1) \frac{(180x^5 + 168x^4 - 79x^3 - 89x^2 + 8x + 12)\sqrt{-2x^4 + 1}\sqrt{3x^2 + 2}\sqrt{5x^3 + 3}}{(180x^5 + 168x^4 - 79x^3 - 89x^2 + 8x + 12)\sqrt{-2x^4 + 1}\sqrt{3x^2 + 2}\sqrt{5x^3 + 3}}$$

--R
--R                                         Type: Expression(Integer)
--E 232

--S 233 of 300
--r0:=62/2925*(1-2*x)^(3/2)*(2+3*x)^(5/2)*(3+5*x)^(5/2)+2/75*(1-2*x)^(5/2)*_
--      (2+3*x)^(5/2)*(3+5*x)^(5/2)+25385346787/9773156250*_
--      elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)-_
--      1764163292393/19546312500*elliptic_e(asin(sqrt(5/11)*_
--      sqrt(1-2*x)),33/35)/sqrt(35)+142391/7239375*(2+3*x)^(3/2)*_

```

```

--      (3+5*x)^(5/2)*sqrt(1-2*x)+3698/482625*(2+3*x)^(5/2)*(3+5*x)^(5/2)*_
--      sqrt(1-2*x)-400516993/2533781250*(3+5*x)^(3/2)*sqrt(1-2*x)*_
--      sqrt(2+3*x)-569519/28153125*(3+5*x)^(5/2)*sqrt(1-2*x)*_
--      sqrt(2+3*x)-13267820528/11402015625*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 233

--S 234 of 300
--d0:=t0-D(r0,x)
--E 234

)clear all

--S 235 of 300
t0:=(1-2*x)^(5/2)*(2+3*x)^(3/2)*(3+5*x)^(3/2)
--R
--R
--R      4      3      2      +-----+ +-----+ +-----+
--R      (1)  (60x  + 16x  - 37x  - 5x + 6)\|- 2x + 1 \|3x + 2 \|5x + 3
--R
--R                                         Type: Expression(Integer)
--E 235

--S 236 of 300
--r0:=106/3575*(1-2*x)^(3/2)*(2+3*x)^(3/2)*(3+5*x)^(5/2)+_
--      2/65*(1-2*x)^(5/2)*(2+3*x)^(3/2)*(3+5*x)^(5/2)+_
--      880870681/651543750*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--      sqrt(33)-30660308017/651543750*elliptic_e(asin(sqrt(5/11)*_
--      sqrt(1-2*x)),33/35)/sqrt(35)+8318/482625*(2+3*x)^(3/2)*(3+5*x)^(5/2)*_
--      sqrt(1-2*x)-6794792/84459375*(3+5*x)^(3/2)*sqrt(1-2*x)*_
--      sqrt(2+3*x)+25603/1876875*(3+5*x)^(5/2)*sqrt(1-2*x)*sqrt(2+3*x)-_
--      923943703/1520268750*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 236

--S 237 of 300
--d0:=t0-D(r0,x)
--E 237

)clear all

--S 238 of 300
t0:=(1-2*x)^(5/2)*(3+5*x)^(3/2)*sqrt(2+3*x)
--R
--R
--R      3      2      +-----+ +-----+ +-----+
--R      (1)  (20x  - 8x  - 7x + 3)\|- 2x + 1 \|3x + 2 \|5x + 3
--R
--R                                         Type: Expression(Integer)
--E 238

--S 239 of 300
--r0:=11437073/15035625*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--      sqrt(33)-829177897/30071250*elliptic_e(asin(sqrt(5/11)*_

```

```

--      sqrt(1-2*x)),33/35)/sqrt(35)+326/7425*(1-2*x)^(3/2)*_
--      (3+5*x)^(5/2)*sqrt(2+3*x)+2/55*(1-2*x)^(5/2)*(3+5*x)^(5/2)*_
--      sqrt(2+3*x)-78797/3898125*(3+5*x)^(3/2)*sqrt(1-2*x)*_
--      sqrt(2+3*x)+30362/779625*(3+5*x)^(5/2)*sqrt(1-2*x)*sqrt(2+3*x)-
--      12996374/35083125*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 239

--S 240 of 300
--d0:=t0-D(r0,x)
--E 240

)clear all

--S 241 of 300
t0:=(1-2*x)^(5/2)*(3+5*x)^(3/2)/sqrt(2+3*x)
--R
--R
--R      3      2      +-----+ +-----+
--R      (20x  - 8x  - 7x + 3)\|- 2x + 1 \|5x + 3
--R      (1) -----
--R                  +-----+
--R                  \|3x + 2
--R
                                         Type: Expression(Integer)
--E 241

--S 242 of 300
--r0:=-150217/273375*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--      sqrt(33)-4457606/273375*elliptic_e(asin(sqrt(5/11)*_
--      sqrt(1-2*x)),33/35)/sqrt(35)+362/2835*(1-2*x)^(3/2)*(3+5*x)^(3/2)*_
--      sqrt(2+3*x)+2/27*(1-2*x)^(5/2)*(3+5*x)^(3/2)*sqrt(2+3*x)+_
--      14318/70875*(3+5*x)^(3/2)*sqrt(1-2*x)*sqrt(2+3*x)-
--      429479/637875*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 242

--S 243 of 300
--d0:=t0-D(r0,x)
--E 243

)clear all

--S 244 of 300
t0:=(1-2*x)^(5/2)*(3+5*x)^(3/2)/(2+3*x)^(3/2)
--R
--R
--R      3      2      +-----+ +-----+
--R      (20x  - 8x  - 7x + 3)\|- 2x + 1 \|5x + 3
--R      (1) -----
--R                  +-----+
--R                  (3x + 2)\|3x + 2
--R
                                         Type: Expression(Integer)

```

```

--E 244

--S 245 of 300
--r0:=145102/6075*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)-_
--      481339/6075*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)/_
--      sqrt(35)-2/3*(1-2*x)^(5/2)*(3+5*x)^(3/2)/sqrt(2+3*x)-_
--      32/63*(1-2*x)^(3/2)*(3+5*x)^(3/2)*sqrt(2+3*x)-_
--      2108/1575*(3+5*x)^(3/2)*sqrt(1-2*x)*sqrt(2+3*x)+_
--      124724/14175*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 245

--S 246 of 300
--d0:=t0-D(r0,x)
--E 246

)clear all

--S 247 of 300
t0:=(1-2*x)^(5/2)*(3+5*x)^(3/2)/(2+3*x)^(5/2)
--R
--R
--R      3      2      +-----+ +-----+
--R      (20x  - 8x  - 7x + 3)\|- 2x + 1 \|5x + 3
--R      (1) -----
--R                  2      +-----+
--R                  (9x  + 12x + 4)\|3x + 2
--R
                                         Type: Expression(Integer)
--E 247

--S 248 of 300
--r0:=-2/9*(1-2*x)^(5/2)*(3+5*x)^(3/2)/(2+3*x)^(3/2)+116854/3645*_
--      elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*sqrt(7/5)-_
--      331954/3645*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--      sqrt(33)+230/27*(1-2*x)^(3/2)*(3+5*x)^(3/2)/sqrt(2+3*x)+_
--      788/135*(3+5*x)^(3/2)*sqrt(1-2*x)*sqrt(2+3*x)-43214/1215*_
--      sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 248

--S 249 of 300
--d0:=t0-D(r0,x)
--E 249

)clear all

--S 250 of 300
t0:=(1-2*x)^(5/2)*(3+5*x)^(3/2)/(2+3*x)^(7/2)
--R
--R
--R      3      2      +-----+ +-----+
--R      (20x  - 8x  - 7x + 3)\|- 2x + 1 \|5x + 3

```

```

--R      (1)  -----
--R                  3      2      +-----+
--R                  (27x  + 54x  + 36x + 8)\|3x + 2
--R
--R                                          Type: Expression(Integer)
--E 250

--S 251 of 300
--r0:=-2/15*(1-2*x)^(5/2)*(3+5*x)^(3/2)/(2+3*x)^(5/2)+_
--    46/27*(1-2*x)^(3/2)*(3+5*x)^(3/2)/(2+3*x)^(3/2)-_
--    19174/729*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*_
--    sqrt(7/5)+42412/729*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--    sqrt(33)-316/27*(3+5*x)^(3/2)*sqrt(1-2*x)/sqrt(2+3*x)+5264/243*_
--    sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 251

--S 252 of 300
--d0:=t0-D(r0,x)
--E 252

)clear all

--S 253 of 300
t0:=(1-2*x)^(5/2)*(3+5*x)^(3/2)/(2+3*x)^(9/2)
--R
--R
--R      3      2      +-----+ +-----+
--R      (20x  - 8x  - 7x + 3)\|- 2x + 1 \|5x + 3
--R      (1) -----
--R      4      3      2      +-----+
--R      (81x  + 216x  + 216x  + 96x + 16)\|3x + 2
--R
--R                                          Type: Expression(Integer)
--E 253

--S 254 of 300
--r0:=-2/21*(1-2*x)^(5/2)*(3+5*x)^(3/2)/(2+3*x)^(7/2)+_
--    46/63*(1-2*x)^(3/2)*(3+5*x)^(3/2)/(2+3*x)^(5/2)-_
--    11576/1701*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*_
--    sqrt(5/7)-16700/1701*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--    sqrt(33)+608/189*(3+5*x)^(3/2)*sqrt(1-2*x)/(2+3*x)^(3/2)-_
--    4244/3969*sqrt(1-2*x)*sqrt(3+5*x)/sqrt(2+3*x)
--E 254

--S 255 of 300
--d0:=t0-D(r0,x)
--E 255

)clear all

--S 256 of 300
t0:=(1-2*x)^(5/2)*(3+5*x)^(3/2)/(2+3*x)^(11/2)

```

```

--R
--R
--R      3      2      +-----+ +-----+
--R      (20x  - 8x  - 7x + 3)\|- 2x + 1 \|5x + 3
--R      (1) -----
--R      5      4      3      2      +-----+
--R      (243x  + 810x  + 1080x  + 720x  + 240x + 32)\|3x + 2
--R
--R                                         Type: Expression(Integer)
--E 256

--S 257 of 300
--r0:=-2/27*(1-2*x)^(5/2)*(3+5*x)^(3/2)/(2+3*x)^(9/2)+_
--    230/567*(1-2*x)^(3/2)*(3+5*x)^(3/2)/(2+3*x)^(7/2)-_
--    3545996/107163*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*_
--    sqrt(5/7)+564040/107163*elliptic_f(asin(sqrt(3/7))*_
--    sqrt(1-2*x)),35/33)/sqrt(33)+1532/567*(3+5*x)^(3/2)*_
--    sqrt(1-2*x)/(2+3*x)^(5/2)-104036/35721*sqrt(1-2*x)*_
--    sqrt(3+5*x)/(2+3*x)^(3/2)+3545996/250047*sqrt(1-2*x)*_
--    sqrt(3+5*x)/sqrt(2+3*x)
--E 257

--S 258 of 300
--d0:=t0-D(r0,x)
--E 258

)clear all

--S 259 of 300
t0:=(1-2*x)^(5/2)*(3+5*x)^(3/2)/(2+3*x)^(13/2)
--R
--R
--R      3      2      +-----+ +-----+
--R      (20x  - 8x  - 7x + 3)\|- 2x + 1 \|5x + 3
--R      (1) -----
--R      6      5      4      3      2      +-----+
--R      (729x  + 2916x  + 4860x  + 4320x  + 2160x  + 576x + 64)\|3x + 2
--R
--R                                         Type: Expression(Integer)
--E 259

--S 260 of 300
--r0:=-2/33*(1-2*x)^(5/2)*(3+5*x)^(3/2)/(2+3*x)^(11/2)+_
--    230/891*(1-2*x)^(3/2)*(3+5*x)^(3/2)/(2+3*x)^(9/2)-_
--    780320008/8251551*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*_
--    sqrt(5/7)+112439720/8251551*elliptic_f(asin(sqrt(3/7))*_
--    sqrt(1-2*x)),35/33)/sqrt(33)+12280/6237*(3+5*x)^(3/2)*_
--    sqrt(1-2*x)/(2+3*x)^(7/2)-325796/130977*sqrt(1-2*x)*_
--    sqrt(3+5*x)/(2+3*x)^(5/2)+11243972/2750517*sqrt(1-2*x)*_
--    sqrt(3+5*x)/(2+3*x)^(3/2)+780320008/19253619*sqrt(1-2*x)*_
--    sqrt(3+5*x)/sqrt(2+3*x)
--E 260

```

```

--S 261 of 300
--d0:=t0-D(r0,x)
--E 261

)clear all

--S 262 of 300
t0:=(1-2*x)^(5/2)*(3+5*x)^(3/2)/(2+3*x)^(15/2)
--R
--R
--R (1)
--R      3      2      +-----+ +-----+
--R      (20x  - 8x  - 7x + 3)\|- 2x + 1 \|5x + 3
--R /
--R      7      6      5      4      3      2
--R      (2187x  + 10206x  + 20412x  + 22680x  + 15120x  + 6048x  + 1344x + 128)
--R *
--R      +-----+
--R      \|3x + 2
--R
                                         Type: Expression(Integer)
--E 262

--S 263 of 300
--r0:=-2/39*(1-2*x)^(5/2)*(3+5*x)^(3/2)/(2+3*x)^(13/2)+_
--    230/1287*(1-2*x)^(3/2)*(3+5*x)^(3/2)/(2+3*x)^(11/2)-_
--    75041008472/250297047*elliptic_e(asin(sqrt(5/11)*_
--    sqrt(1-2*x)),33/35)*sqrt(5/7)+10799362480/250297047*_
--    elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)+_
--    1300/891*(3+5*x)^(3/2)*sqrt(1-2*x)/(2+3*x)^(9/2)-_
--    3347620/1702701*sqrt(1-2*x)*sqrt(3+5*x)/(2+3*x)^(7/2)+_
--    23210828/11918907*sqrt(1-2*x)*sqrt(3+5*x)/(2+3*x)^(5/2)+_
--    1079936248/83432349*sqrt(1-2*x)*sqrt(3+5*x)/(2+3*x)^(3/2)+_
--    75041008472/584026443*sqrt(1-2*x)*sqrt(3+5*x)/sqrt(2+3*x)
--E 263

--S 264 of 300
--d0:=t0-D(r0,x)
--E 264

)clear all

--S 265 of 300
t0:=(1-2*x)^(5/2)*(2+3*x)^(3/2)*(3+5*x)^(5/2)
--R
--R
--R (1)
--R      5      4      3      2      +-----+ +-----+ +-----+
--R      (300x  + 260x  - 137x  - 136x  + 15x + 18)\|- 2x + 1 \|3x + 2 \|5x + 3
--R
                                         Type: Expression(Integer)

```

```

--E 265

--S 266 of 300
--r0:=106/4875*(1-2*x)^(3/2)*(2+3*x)^(3/2)*(3+5*x)^(7/2)+_
--      2/75*(1-2*x)^(5/2)*(2+3*x)^(3/2)*(3+5*x)^(7/2)+_
--      11371367372/2931946875*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--      sqrt(33)-1580201444291/11727787500*elliptic_e(asin(sqrt(5/11)*_
--      sqrt(1-2*x)),33/35)/sqrt(35)+8038/804375*(2+3*x)^(3/2)*(3+5*x)^(7/2)*_
--      sqrt(1-2*x)-359748241/1520268750*(3+5*x)^(3/2)*sqrt(1-2*x)*_
--      sqrt(2+3*x)-26534891/760134375*(3+5*x)^(5/2)*sqrt(1-2*x)*_
--      sqrt(2+3*x)+364267/36196875*(3+5*x)^(7/2)*sqrt(1-2*x)*sqrt(2+3*x)-_
--      23763809947/13682418750*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 266

--S 267 of 300
--d0:=t0-D(r0,x)
--E 267

)clear all

--S 268 of 300
t0:=(1-2*x)^(5/2)*(3+5*x)^(5/2)*sqrt(2+3*x)
--R
--R
--R      4      3      2      +-----+ +-----+ +-----+
--R      (1)  (100x  + 20x  - 59x  - 6x + 9)\|- 2x + 1 \|3x + 2 \|5x + 3
--R
--R                                          Type: Expression(Integer)
--E 268

--S 269 of 300
--r0:=469049629/234555750*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--      sqrt(33)-8120161139/117277875*elliptic_e(asin(sqrt(5/11)*_
--      sqrt(1-2*x)),33/35)/sqrt(35)+326/10725*(1-2*x)^(3/2)*(3+5*x)^(7/2)*_
--      sqrt(2+3*x)+2/65*(1-2*x)^(5/2)*(3+5*x)^(7/2)*sqrt(2+3*x)-_
--      3872003/30405375*(3+5*x)^(3/2)*sqrt(1-2*x)*sqrt(2+3*x)-_
--      121031/30405375*(3+5*x)^(5/2)*sqrt(1-2*x)*sqrt(2+3*x)+_
--      2314/111375*(3+5*x)^(7/2)*sqrt(1-2*x)*sqrt(2+3*x)-_
--      486785077/547296750*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 269

--S 270 of 300
--d0:=t0-D(r0,x)
--E 270

)clear all

--S 271 of 300
t0:=(1-2*x)^(5/2)*(3+5*x)^(5/2)/sqrt(2+3*x)
--R
--R
```

```

--R      4      3      2      +-----+ +-----+
--R      (100x  + 20x  - 59x  - 6x + 9)\|- 2x + 1 \|5x + 3
--R      -----
--R                                         +-----+
--R                                         \|3x + 2
--R
--R                                         Type: Expression(Integer)
--E 271

--S 272 of 300
--r0:=2617892/1804275*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--    sqrt(33)-146222113/3608550*elliptic_e(asin(sqrt(5/11)*_
--    sqrt(1-2*x)),33/35)/sqrt(35)+74/891*(1-2*x)^(3/2)*(3+5*x)^(5/2)*_
--    sqrt(2+3*x)+2/33*(1-2*x)^(5/2)*(3+5*x)^(5/2)*sqrt(2+3*x)-_
--    146963/467775*(3+5*x)^(3/2)*sqrt(1-2*x)*sqrt(2+3*x)+_
--    9698/93555*(3+5*x)^(5/2)*sqrt(1-2*x)*sqrt(2+3*x)-_
--    1654421/4209975*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 272

--S 273 of 300
--d0:=t0-D(r0,x)
--E 273

)clear all

--S 274 of 300
t0:=(1-2*x)^(5/2)*(3+5*x)^(5/2)/(2+3*x)^(3/2)
--R
--R
--R      4      3      2      +-----+ +-----+
--R      (100x  + 20x  - 59x  - 6x + 9)\|- 2x + 1 \|5x + 3
--R      -----
--R                                         +-----+
--R                                         (3x + 2)\|3x + 2
--R
--R                                         Type: Expression(Integer)
--E 274

--S 275 of 300
--r0:=-291227/32805*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--    sqrt(33)-25111/32805*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)/_
--    sqrt(35)-2/3*(1-2*x)^(5/2)*(3+5*x)^(5/2)/sqrt(2+3*x)-_
--    40/81*(1-2*x)^(3/2)*(3+5*x)^(5/2)*sqrt(2+3*x)+_
--    64628/8505*(3+5*x)^(3/2)*sqrt(1-2*x)*sqrt(2+3*x)-_
--    2108/1701*(3+5*x)^(5/2)*sqrt(1-2*x)*sqrt(2+3*x)-_
--    310399/76545*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 275

--S 276 of 300
--d0:=t0-D(r0,x)
--E 276

```

```

)clear all

--S 277 of 300
t0:=(1-2*x)^(5/2)*(3+5*x)^(5/2)/(2+3*x)^(5/2)
--R
--R
--R      4      3      2      +-----+ +-----+
--R      (100x  + 20x  - 59x  - 6x + 9)\|- 2x + 1 \|5x + 3
--R      -----
--R                  2      +-----+
--R      (9x  + 12x + 4)\|3x + 2
--R
                                         Type: Expression(Integer)
--E 277

--S 278 of 300
--r0:=-2/9*(1-2*x)^(5/2)*(3+5*x)^(5/2)/(2+3*x)^(3/2)+_
--      153452/2187*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--      sqrt(33)-452399/2187*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)/_
--      sqrt(35)+370/27*(1-2*x)^(3/2)*(3+5*x)^(5/2)/sqrt(2+3*x)-_
--      31298/567*(3+5*x)^(3/2)*sqrt(1-2*x)*sqrt(2+3*x)+_
--      5260/567*(3+5*x)^(5/2)*sqrt(1-2*x)*sqrt(2+3*x)+_
--      135334/5103*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 278

--S 279 of 300
--d0:=t0-D(r0,x)
--E 279

)clear all

--S 280 of 300
t0:=(1-2*x)^(5/2)*(3+5*x)^(5/2)/(2+3*x)^(7/2)
--R
--R
--R      4      3      2      +-----+ +-----+
--R      (100x  + 20x  - 59x  - 6x + 9)\|- 2x + 1 \|5x + 3
--R      -----
--R                  3      2      +-----+
--R      (27x  + 54x  + 36x + 8)\|3x + 2
--R
                                         Type: Expression(Integer)
--E 280

--S 281 of 300
--r0:=-2/15*(1-2*x)^(5/2)*(3+5*x)^(5/2)/(2+3*x)^(5/2)+_
--      74/27*(1-2*x)^(3/2)*(3+5*x)^(5/2)/(2+3*x)^(3/2)+_
--      136028/2187*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*_
--      sqrt(7/5)-374366/2187*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--      sqrt(33)-6464/81*(3+5*x)^(5/2)*sqrt(1-2*x)/sqrt(2+3*x)+_
--      11036/81*(3+5*x)^(3/2)*sqrt(1-2*x)*sqrt(2+3*x)-_
--      48478/729*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)

```

```

--E 281

--S 282 of 300
--d0:=t0-D(r0,x)
--E 282

)clear all

--S 283 of 300
t0:=(1-2*x)^(5/2)*(3+5*x)^(5/2)/(2+3*x)^(9/2)
--R
--R
--R
$$(1) \frac{(100x^4 + 20x^3 - 59x^2 - 6x + 9)\sqrt{-2x + 1}\sqrt{5x + 3}}{(81x^4 + 216x^3 + 216x^2 + 96x + 16)\sqrt{3x + 2}}$$

--R
--R                                         Type: Expression(Integer)
--E 283

--S 284 of 300
--r0:=-2/21*(1-2*x)^(5/2)*(3+5*x)^(5/2)/(2+3*x)^(7/2)+_
--    74/63*(1-2*x)^(3/2)*(3+5*x)^(5/2)/(2+3*x)^(5/2)-904798/15309*_
--    elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*sqrt(5/7)+_
--    1534520/15309*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--    sqrt(33)-1844/567*(3+5*x)^(5/2)*sqrt(1-2*x)/(2+3*x)^(3/2)-_
--    62596/3969*(3+5*x)^(3/2)*sqrt(1-2*x)/sqrt(2+3*x)+_
--    1353340/35721*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 284

--S 285 of 300
--d0:=t0-D(r0,x)
--E 285

)clear all

--S 286 of 300
t0:=(1-2*x)^(5/2)*(3+5*x)^(5/2)/(2+3*x)^(11/2)
--R
--R
--R
$$(1) \frac{(100x^4 + 20x^3 - 59x^2 - 6x + 9)\sqrt{-2x + 1}\sqrt{5x + 3}}{(243x^5 + 810x^4 + 1080x^3 + 720x^2 + 240x + 32)\sqrt{3x + 2}}$$

--R
--R                                         Type: Expression(Integer)
--E 286

--S 287 of 300
--r0:=-2/27*(1-2*x)^(5/2)*(3+5*x)^(5/2)/(2+3*x)^(9/2)+_

```

```

--      370/567*(1-2*x)^(3/2)*(3+5*x)^(5/2)/(2+3*x)^(7/2)-_
--      100444/321489*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*_
--      sqrt(5/7)-5824540/321489*elliptic_f(asin(sqrt(3/7)*_
--      sqrt(1-2*x)),35/33)/sqrt(33)-13316/35721*(3+5*x)^(3/2)*_
--      sqrt(1-2*x)/(2+3*x)^(3/2)+2776/1701*(3+5*x)^(5/2)*_
--      sqrt(1-2*x)/(2+3*x)^(5/2)-1241596/750141*sqrt(1-2*x)*_
--      sqrt(3+5*x)/sqrt(2+3*x)
--E 287

--S 288 of 300
--d0:=t0-D(r0,x)
--E 288

)clear all

--S 289 of 300
t0:=(1-2*x)^(5/2)*(3+5*x)^(5/2)/(2+3*x)^(13/2)
--R
--R
--R      4      3      2      +-----+ +-----+
--R      (100x  + 20x  - 59x  - 6x + 9)\|- 2x + 1 \|5x + 3
--R      -----
--R      6      5      4      3      2      +-----+
--R      (729x  + 2916x  + 4860x  + 4320x  + 2160x  + 576x + 64)\|3x + 2
--R
--R                                         Type: Expression(Integer)
--E 289

--S 290 of 300
--r0:=-2/33*(1-2*x)^(5/2)*(3+5*x)^(5/2)/(2+3*x)^(11/2)+_
--      370/891*(1-2*x)^(3/2)*(3+5*x)^(5/2)/(2+3*x)^(9/2)-_
--      584888452/24754653*elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)*_
--      sqrt(5/7)+104715680/24754653*elliptic_f(asin(sqrt(3/7)*_
--      sqrt(1-2*x)),35/33)/sqrt(33)-55772/43659*(3+5*x)^(3/2)*_
--      sqrt(1-2*x)/(2+3*x)^(5/2)+36980/18711*(3+5*x)^(5/2)*_
--      sqrt(1-2*x)/(2+3*x)^(7/2)-17089252/8251551*sqrt(1-2*x)*_
--      sqrt(3+5*x)/(2+3*x)^(3/2)+584888452/57760857*sqrt(1-2*x)*_
--      sqrt(3+5*x)/sqrt(2+3*x)
--E 290

--S 291 of 300
--d0:=t0-D(r0,x)
--E 291

)clear all

--S 292 of 300
t0:=(1-2*x)^(5/2)*(3+5*x)^(5/2)/(2+3*x)^(15/2)
--R
--R
--R      (1)

```

```

--R      4      3      2      +-----+ +-----+
--R      (100x  + 20x  - 59x  - 6x + 9)\|- 2x + 1 \|5x + 3
--R      /
--R      7      6      5      4      3      2
--R      (2187x  + 10206x  + 20412x  + 22680x  + 15120x  + 6048x  + 1344x + 128)
--R      *
--R      +-----+
--R      \|3x + 2
--R
--E 292                                         Type: Expression(Integer)

--S 293 of 300
--r0:=-2/39*(1-2*x)^(5/2)*(3+5*x)^(5/2)/(2+3*x)^(13/2)+_
--      370/1287*(1-2*x)^(3/2)*(3+5*x)^(5/2)/(2+3*x)^(11/2)-_
--      129922578224/2252673423*elliptic_e(asin(sqrt(5/11)*_
--      sqrt(1-2*x)),33/35)*sqrt(5/7)+18761985160/2252673423*_
--      elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/sqrt(33)-_
--      2622980/1702701*(3+5*x)^(3/2)*sqrt(1-2*x)/(2+3*x)^(7/2)+_
--      60080/34749*(3+5*x)^(5/2)*sqrt(1-2*x)/(2+3*x)^(9/2)-_
--      54281308/35756721*sqrt(1-2*x)*sqrt(3+5*x)/(2+3*x)^(5/2)+_
--      1876198516/750891141*sqrt(1-2*x)*sqrt(3+5*x)/(2+3*x)^(3/2)+_
--      129922578224/5256237987*sqrt(1-2*x)*sqrt(3+5*x)/sqrt(2+3*x)
--E 293

--S 294 of 300
--d0:=t0-D(r0,x)
--E 294

)clear all

--S 295 of 300
t0:=(1-2*x)^(5/2)*(3+5*x)^(5/2)/(2+3*x)^(17/2)
--R
--R
--R      (1)
--R      4      3      2      +-----+ +-----+
--R      (100x  + 20x  - 59x  - 6x + 9)\|- 2x + 1 \|5x + 3
--R      /
--R      8      7      6      5      4      3      2
--R      6561x  + 34992x  + 81648x  + 108864x  + 90720x  + 48384x  + 16128x
--R      +
--R      3072x + 256
--R      *
--R      +-----+
--R      \|3x + 2
--R
--E 295                                         Type: Expression(Integer)

--S 296 of 300
--r0:=-2/45*(1-2*x)^(5/2)*(3+5*x)^(5/2)/(2+3*x)^(15/2)+_

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```

--      74/351*(1-2*x)^(3/2)*(3+5*x)^(5/2)/(2+3*x)^(13/2)+_
--      363883755904/15768713961*elliptic_f(asin(sqrt(3/7)*_
--      sqrt(1-2*x)),35/33)/sqrt(33)-12641611554328/15768713961*_
--      elliptic_e(asin(sqrt(5/11)*sqrt(1-2*x)),33/35)/sqrt(35)-_
--      1085156/729729*(3+5*x)^(3/2)*sqrt(1-2*x)/(2+3*x)^(9/2)+_
--      16636/11583*(3+5*x)^(5/2)*sqrt(1-2*x)/(2+3*x)^(11/2)-_
--      112817764/107270163*sqrt(1-2*x)*sqrt(3+5*x)/(2+3*x)^(7/2)+_
--      3914701972/3754455705*sqrt(1-2*x)*sqrt(3+5*x)/(2+3*x)^(5/2)+_
--      181941877952/26281189935*sqrt(1-2*x)*sqrt(3+5*x)/(2+3*x)^(3/2)+_
--      12641611554328/183968329545*sqrt(1-2*x)*sqrt(3+5*x)/sqrt(2+3*x)
--E 296

--S 297 of 300
--d0:=t0-D(r0,x)
--E 297

)clear all

--S 298 of 300
t0:=(1-2*x)^(5/2)*(2+3*x)^(5/2)/sqrt(3+5*x)
--R
--R
--R      4      3      2      +-----+ +-----+
--R      (36x  + 12x  - 23x  - 4x + 4)\|- 2x + 1 \|3x + 2
--R      (1) -----
--R                           +-----+
--R                           \|5x + 3
--R
--R                                         Type: Expression(Integer)
--E 298

--S 299 of 300
--r0:=2865161/8353125*elliptic_f(asin(sqrt(3/7)*sqrt(1-2*x)),35/33)/_
--      sqrt(33)-231061879/16706250*elliptic_e(asin(sqrt(5/11)*_
--      sqrt(1-2*x)),33/35)/sqrt(35)+62/1485*(1-2*x)^(3/2)*(2+3*x)^(5/2)*_
--      sqrt(3+5*x)+2/55*(1-2*x)^(5/2)*(2+3*x)^(5/2)*sqrt(3+5*x)+_
--      181333/3898125*(2+3*x)^(3/2)*sqrt(1-2*x)*sqrt(3+5*x)+_
--      4258/155925*(2+3*x)^(5/2)*sqrt(1-2*x)*sqrt(3+5*x)-_
--      2865161/19490625*sqrt(1-2*x)*sqrt(2+3*x)*sqrt(3+5*x)
--E 299

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

)spool
)lisp (bye)

```

References

[1] nothing