**octave:3>** syms x

Symbolic pkg v3.1.1: Python communication link active, SymPy v1.9.

**octave:4>** f=exp(x)

f = (sym)

x

ℯ

**octave:5>** f1=taylor(f,x,0,'Order',2)

f1 = (sym) x + 1

**octave:6>** f2=taylor(f,x,0,'Order',3)

f2 = (sym)

2

x

── + x + 1

2

**octave:7>** f3=taylor(f,x,0,'Order',4)

f3 = (sym)

3 2

x x

── + ── + x + 1

6 2

**octave:8>** f4=taylor(f,x,0,'Order',5)

f4 = (sym)

4 3 2

x x x

── + ── + ── + x + 1

24 6 2

**octave:9>** ezplot(f,[-3,3])

051015-3-2-10123xexp (x)

**octave:10>** hold on

051015-3-2-10123xexp (x)

**octave:11>** ezplot(f1,[-3,3])

-2024-3-2-10123xx + 1

**octave:12>** ezplot(f2,[-3,3])

02468-3-2-10123xx2 / 2 + x + 1

**octave:13>** ezplot(f3,[-3,3])

0510-3-2-10123xx3 / 6 + x2 / 2 + x + 1

**octave:14>** ezplot(f4,[-3,3])

051015-3-2-10123xx4 / 24 + x3 / 6 + x2 / 2 + x + 1

**octave:15>** hold off

051015-3-2-10123xx4 / 24 + x3 / 6 + x2 / 2 + x + 1

》

051015-3-2-10123xx4 / 24 + x3 / 6 + x2 / 2 + x + 1

**octave:16>** exp(1)

ans = 2.7183

**octave:17>** vpa(exp(1),7)

ans = (sym) 2.718282

**octave:18>** subs(f1,x,1)

ans = (sym) 2

**octave:19>** subs(f4,x,1)

ans = (sym)

65

──

24

**octave:20>** vpa(subs(f4,x,1),7)

ans = (sym) 2.708333

**octave:21>** for k=6:20

> **>** T=taylor(f,x,0,'Order',k);

> **>** k

> **>** vpa(subs(T,x,1),7)

> **>** end

**octave:2>** pkg load symbolic

**octave:3>** syms x

Symbolic pkg v3.1.1: Python communication link active, SymPy v1.9.

**octave:4>** f=sin(x)

f = (sym) sin(x)

**octave:5>** f1=taylor(f,x,0,'Order',4)

f1 = (sym)

3

x

- ── + x

6

**octave:6>** f2=taylor(f,x,0,'Order',6)

f2 = (sym)

5 3

x x

─── - ── + x

120 6

**octave:7>** ezplot(f,[-pi,pi])

-1-0.500.51-3-2-10123xsin (x)

**octave:8>** hold on

-1-0.500.51-3-2-10123xsin (x)

**octave:9>** ezplot(f1,[-pi,pi])

-2-1012-3-2-10123x-x3 / 6 + x

**octave:10>** ezplot(f2,[-pi,pi])

-1-0.500.51-3-2-10123xx5 / 120 - x3 / 6 + x

**octave:11>** hold off

-1-0.500.51-3-2-10123xx5 / 120 - x3 / 6 + x

**octave:12>** for k=6:20

> **>** T=taylor(f,x,0,'Order',k);

> **>** k

> **>** vpa(subs(f, x, pi/5), 6)

> **>** end

k = 6

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

ans = (sym) 0.587785

k = 7

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

ans = (sym) 0.587785

k = 8

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

ans = (sym) 0.587785

k = 9

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

ans = (sym) 0.587785

k = 10

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

ans = (sym) 0.587785

k = 11

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

ans = (sym) 0.587785

k = 12

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

ans = (sym) 0.587785

k = 13

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

ans = (sym) 0.587785

k = 14

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

ans = (sym) 0.587785

k = 15

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

ans = (sym) 0.587785

k = 16

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

ans = (sym) 0.587785

k = 17

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

ans = (sym) 0.587785

k = 18

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

ans = (sym) 0.587785

k = 19

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

ans = (sym) 0.587785

k = 20

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

ans = (sym) 0.587785

for k=6:20

> **>** T=taylor(f,x,0,'Order',k);

> **>** k

> **>** vpa(subs(f,x,10\*pi/3),6)

> **>** end

k = 6

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

ans = (sym) -0.866025

k = 7

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

ans = (sym) -0.866025

k = 8

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

ans = (sym) -0.866025

k = 9

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

ans = (sym) -0.866025

k = 10

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

ans = (sym) -0.866025

k = 11

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

ans = (sym) -0.866025

*!!! OUT OF TIME !!!*

**octave:14>** f=ln(1+x)

*error: 'ln' undefined near line 1, column 3*

**octave:15>** f=log(1+x)

f = (sym) log(x + 1)

**octave:16>** f1=taylor(f,x,0,'Order',3)

f1 = (sym)

2

x

- ── + x

2

**octave:17>** f2=taylor(f,x,0,'Order',6)

f2 = (sym)

5 4 3 2

x x x x

── - ── + ── - ── + x

5 4 3 2

**octave:18>** ezplot(f,[-0.9,1]);

-2.5-2-1.5-1-0.500.5-0.500.51xlog (x + 1)

**octave:19>** hold on

-2.5-2-1.5-1-0.500.5-0.500.51xlog (x + 1)

**octave:20>** ezplot(f1,[-0.9,1]);

-1-0.500.5-0.500.51x-x2 / 2 + x

**octave:21>** ezplot(f2,[-0.9,1]);

-2-1.5-1-0.500.5-0.500.51xx5 / 5 - x4 / 4 + x3 / 3 - x2 / 2 + x

**octave:22>** clr

*error: 'clr' undefined near line 1, column 1*

**octave:23>** clf

**octave:24>** f = log(1+x);

**octave:25>** Tf1 = taylor(f,x,0,'Order',2);

**octave:26>** Tf4 = taylor(f,x,0,'Order',5);

**octave:27>** ezplot(Tf1,[-0.9,1]);

-1-0.500.51-0.500.51xx

**octave:28>** hold on;

-1-0.500.51-0.500.51xx

**octave:29>** ezplot(Tf4,[-0.9,1]);

-1.5-1-0.500.5-0.500.51x-x4 / 4 + x3 / 3 - x2 / 2 + x

**octave:30>** hold on;

**octave:31>** n = 30;

for i = 2:n

Tf = taylor(f,x,0,'Order',i);

a = subs(Tf,x,log(2)); i

vpa(a,5)

end

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 2

ans = (sym) 0.69315

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 3

ans = (sym) 0.45292

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 4

ans = (sym) 0.56393

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 5

ans = (sym) 0.50622

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 6

ans = (sym) 0.53822

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 7

ans = (sym) 0.51974

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 8

ans = (sym) 0.53072

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 9

ans = (sym) 0.52406

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 10

ans = (sym) 0.52816

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 11

ans = (sym) 0.52560

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 12

ans = (sym) 0.52722

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 13

ans = (sym) 0.52619

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 14

ans = (sym) 0.52685

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 15

ans = (sym) 0.52642

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 16

ans = (sym) 0.52670

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 17

ans = (sym) 0.52652

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 18

ans = (sym) 0.52663

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 19

ans = (sym) 0.52656

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 20

ans = (sym) 0.52661

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 21

ans = (sym) 0.52658

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 22

ans = (sym) 0.52660

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 23

ans = (sym) 0.52658

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 24

ans = (sym) 0.52659

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 25

ans = (sym) 0.52659

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 26

ans = (sym) 0.52659

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 27

ans = (sym) 0.52659

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 28

ans = (sym) 0.52659

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 29

ans = (sym) 0.52659

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 30

ans = (sym) 0.52659

**octave:33>** f1 = log(1-x);

n = 30;

for i = 2:n

Tf = taylor(f1,x,0,'Order',i);

a = subs(Tf,x,log(2)); i

vpa(a,5)

end

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 2

ans = (sym) -0.69315

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 3

ans = (sym) -0.93337

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 4

ans = (sym) -1.0444

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 5

ans = (sym) -1.1021

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 6

ans = (sym) -1.1341

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 7

ans = (sym) -1.1526

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 8

ans = (sym) -1.1636

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 9

ans = (sym) -1.1702

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 10

ans = (sym) -1.1743

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 11

ans = (sym) -1.1769

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 12

ans = (sym) -1.1785

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 13

ans = (sym) -1.1795

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 14

ans = (sym) -1.1802

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 15

ans = (sym) -1.1806

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 16

ans = (sym) -1.1809

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 17

ans = (sym) -1.1810

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 18

ans = (sym) -1.1812

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 19

ans = (sym) -1.1812

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 20

ans = (sym) -1.1813

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 21

ans = (sym) -1.1813

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 22

ans = (sym) -1.1813

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 23

ans = (sym) -1.1814

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 24

ans = (sym) -1.1814

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 25

ans = (sym) -1.1814

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 26

ans = (sym) -1.1814

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 27

ans = (sym) -1.1814

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 28

ans = (sym) -1.1814

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 29

ans = (sym) -1.1814

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

i = 30

ans = (sym) -1.1814

**octave:36>** fa = log(1+x);

Ta = taylor(fa,x,0,'Order',8);

fb = log(1-x);

Tb = taylor(fb,x,0,'Order',8);

**octave:40>** tl = fa - fb;

a = subs (tl, x, 1/3);

vpa(a, 6)

vpa(log(2), 6)

*warning: passing floating-point values to sym is dangerous, see "help sym"*

*warning: called from*

*double\_to\_sym\_heuristic at line 50 column 7*

*sym at line 379 column 13*

*subs at line 226 column 9*

ans = (sym) 0.693147

ans = (sym) 0.693147

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