

Maxima 5.13.0cvs <http://maxima.sourceforge.net>

Using Lisp CLISP 2.41 (2006-10-13)

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Dedicated to the memory of William Schelter.

This is a development version of Maxima. The function bug_report()

provides bug reporting information.

(%i1) 'sum(i^3,i,0,5) = sum(i^3,i,0,5);

```

      5
      ====
      \      3
      >    i  = 225
      /
      ====
      i = 0

```

(%i2) solve(x^2+x+1);

```

      sqrt(3) %i + 1      sqrt(3) %i - 1
(%o2) [x = - ----, x = ----]
           2              2

```

(%i3) matrix([2/3,2^(1/3)],[sin(k*pi),0]);

```

      [      2      1/3 ]
      [      -      2   ]
(%o3) [      3      ]
      [      ]
      [ sin(%pi k)  0   ]

```

(%i4) invert(%);

```

      [      1      ]
      [  0      ---- ]
      [      sin(%pi k) ]
(%o4) [      ]
      [  1      2   ]
      [ ---- - ---- ]
      [ 1/3      1/3 ]
      [ 2      3 2  sin(%pi k) ]

```

(%i5) 'integrate(sqrt(a+x)/x^5,x,1,2) = integrate(sqrt(2+x)/x^5,x,1,2);

```

      2
      /
(%o5) I ----- dx = -----
      [ sqrt(x + a)      5 sqrt(2) log(5 - 2 sqrt(2) sqrt(3)) + 548 sqrt(3)
      ] -----
      [      5      ]
      /      x      ]
      1
      15 sqrt(2) log(3 - 2 sqrt(2)) + 244
      -----
      6144

```

(%i6) quit();