```
--> 1+1/(2+1/(2+1/(2+1/2)));
```

(%o1) $\frac{41}{29}$

```
--> float(%);
```

(%o2) 1.413793103448276

```
--> expand(-(-3*a^3*b^2*c^2-(4*a^2*b^3*c^3+3*a^3*b^2*c^2-(-2*a^2*b^3*c^3)))+a*b*c*(-5*a^2*b*c+3*a*b^2*c^2));
```

(%o3) $9\,a^2\,b^3\,c^3+a^3\,b^2\,c^2$

```
--> expand((\phi + \xi)^7);
```

(%o5) $\xi^7+7\,\varphi\,\xi^6+21\,\varphi^2\,\xi^5+35\,\varphi^3\,\xi^4+35\,\varphi^4\,\xi^3+21\,\varphi^5\,\xi^2+7\,\varphi^6\,\xi+\varphi^7$

```
--> expand((1+t+t^6+t^7+t^9+t^9)*(t^5-t^4-t^3-t^2));
```

(%o6) $2\,t^{14}-2\,t^{13}-t^{12}-2\,t^{11}-2\,t^{10}-2\,t^9-t^8+t^6-2\,t^4-2\,t^3-t^2$

```
--> factor(x+1-x^3-x^2);
```

(%o7) $-(x-1)\,(x+1)^2$

```
(%i1) factor(x^2+13*x+7);
```

(%o1) $x^2+13\,x+7$

```
(%i2) allroots(x^2+13*x+7 = 0);
```

(%o2) $[x=-.5628289564810414\,,\,x=-12.43717104351896]$

```
(%i5) Expression(\Phi) := \Phi^3-1/\Phi + 5 * (\Phi^2-2);
```

(%o5) $\mathrm{Expression}(\Phi):=\Phi^3-\frac{1}{\Phi}+5\,(\Phi^2-2)$

```
(%i6) Expression(1/5);
```

(%o6) $-\frac{1849}{125}$

```
(%i7) float(%);
```

(%o7) -14.792