

> solve(x^5+x+1=0);

$$-\frac{1}{2} + \frac{1}{2}I\sqrt{3}, -\frac{1}{2} - \frac{1}{2}I\sqrt{3}, -\frac{1}{6}\%1^{(1/3)} - \frac{2}{3}\frac{1}{\%1^{(1/3)}} + \frac{1}{3},$$
$$\frac{1}{12}\%1^{(1/3)} + \frac{1}{3}\frac{1}{\%1^{(1/3)}} + \frac{1}{3} + \frac{1}{2}I\sqrt{3}\left(-\frac{1}{6}\%1^{(1/3)} + \frac{2}{3}\frac{1}{\%1^{(1/3)}}\right)$$
$$\frac{1}{12}\%1^{(1/3)} + \frac{1}{3}\frac{1}{\%1^{(1/3)}} + \frac{1}{3} - \frac{1}{2}I\sqrt{3}\left(-\frac{1}{6}\%1^{(1/3)} + \frac{2}{3}\frac{1}{\%1^{(1/3)}}\right)$$

$$\%1 := 100 + 12\sqrt{69}$$

> solve(x^5+x^2+1=0);

$$\text{RootOf}(_Z^5 + _Z^2 + 1)$$

> solve(x^7+x^6+x^5+x^4+x^3+2*x^2+x+1=0);

$$-\frac{1}{2} + \frac{1}{2}I\sqrt{3}, -\frac{1}{2} - \frac{1}{2}I\sqrt{3}, \text{RootOf}(_Z^5 + _Z^2 + 1)$$

> allvalues(%[3]);

$$-1.193859111, -.1545896767 - .8280741332 I, -.1545896767 + .8280741332 I,$$
$$.7515192324 - .7846159210 I, .7515192324 + .7846159210 I$$

> solve(x^9=1);

$$1, -\frac{1}{2} + \frac{1}{2}I\sqrt{3}, -\frac{1}{2} - \frac{1}{2}I\sqrt{3}, \frac{1}{2}\%2, -\frac{1}{4}\%2 + \frac{1}{4}I\sqrt{3}\%2, -\frac{1}{4}\%2 - \frac{1}{4}I\sqrt{3}\%2, \frac{1}{2}\%1,$$

$$-\frac{1}{4}\%1 - \frac{1}{4}I\sqrt{3}\%1, -\frac{1}{4}\%1 + \frac{1}{4}I\sqrt{3}\%1$$

$$\%1 := (-4 - 4I\sqrt{3})^{(1/3)}$$

$$\%2 := (-4 + 4I\sqrt{3})^{(1/3)}$$