

```

> pol:=x^4+x^3-x^2-x;
pol:=  $x^4 + x^3 - x^2 - x$ 

> whattype(pol);
`+`

> nops(pol);
4

> op(pol);
 $x^4, x^3, -x^2, -x$ 

> op(1,pol);
 $x^4$ 

> subs(x=0, cos(x)*(sin(x)+x^2+1));
cos(0) (sin(0) + 1)

> eval(%);
1

> subs(x=y, y=z, x*y^2);
 $z^3$ 

> subs({x=y, y=z}, x*y^2);
 $y z^2$ 

> subs(x*y=product, x*y*z);
 $x y z$ 

> algsubs(x*y=product, x*y*z);
 $z \text{product}$ 

> subsop(3=y, x^2+x+1/x);
 $x^2 + x + y$ 

> vyraz:=(x^2+2*x+1)^2+(x^2-2*x+1)^2;
vyraz:=  $(x^2 + 2 x + 1)^2 + (x^2 - 2 x + 1)^2$ 

> map(factor, vyraz);
 $(x + 1)^4 + (x - 1)^4$ 

```

```
[%i1] pol:=x^4+x^3-x^2-x;
[%o1] x4+x3-x2-x

[%i2] op(pol);
[%o2] +

[%i3] nterms(pol);
[%o3] 4

[%i5] args(pol);
[%o5] [x4, x3, -x2, -x]

[%i6] part(pol,1);
[%o6] x4

[%i7] subst(x=0, cos(x)*(sin(x)+x^2+1));
[%o7] 1

[%i8] subst([x=y, y=z], x*y^2);
[%o8] z3

[%i9] psubst([x=y, y=z], x*y^2);
[%o9] y z2

[%i11] subst(x*y=product, x*y*z);
[%o11] x y z

[%i13] ratsubst(product, x*y, x*y*z);
[%o13] product z

[%i14] substpart(y, x^2+x+1/x, 3);
[%o14] y+x2+x

[%i15] vyraz: (x^2+2*x+1)^2+(x^2-2*x+1)^2;
[%o15] (x2+2 x+1)2+(x2-2 x+1)2

[%i16] map(factor, vyraz);
[%o16] (x+1)4+(x-1)4
```