

```

> evalc((7+8*I)/(9+10*I));
      143   2
      --- + --- I
      181  181
> evalc((sqrt(3)/(I+sqrt(2)))^10);
>
      241   22
      --- + --- I sqrt(2)
      243  243
> a:=sqrt(n)*sqrt(n+1)-n;
      a := sqrt(n) sqrt(n+1) - n
> n:=10^5;
      n := 100000
> evalf(a);
      .5000
> evalf(a,30);
      .499998750006249960937773
> ifactor(1234567891011);
      (3) (7) (13) (67) (107) (630803)
> b:=(sqrt(2)-sqrt(3))^100;
      b := (sqrt(2) - sqrt(3))^100
> c:=expand(b);
c :=
30094782979267432123425290817174849380448712531249 -
12286143703166891426729031682890716046345340800500
sqrt(3) sqrt(2)
> evalf(c);

```

```

|
|                                     .1 1041
| > evalf(b);
|
|                                     .1661417950 10-49
| > d := (x^8 - y^8) * (x^2 + x + y) / ((x + y) * (x^2 + y^2));
|
|                                     d :=  $\frac{(x^8 - y^8)(x^2 + x + y)}{(x + y)(x^2 + y^2)}$ 
| > simplify(d);
|
|                                      $(x^5 - yx^4 + y^4x - y^5)(x^2 + x + y)$ 
| > collect(%, x);
|
|                                      $x^7 + (-y + 1)x^6 - y^2x^4 + y^4x^3 + (-y^5 + y^4)x^2 - y^6$ 
| >
| >

```