```
> type(1, integer);
```

$$true$$

```
> isprime(17);
```

$$true$$

```
> ifactor(18);
```

$$(2)\,(3)^2$$

```
> nextprime(18);
```

$$19$$

```
> prevprime(18);
```

$$17$$

```
> a:=1234: b:=56:
> q:=iquo(a,b);
```

$$q := 22$$

```
> r:=irem(a,b);
```

$$r := 2$$

```
> testeq(a=q*b+r);
```

$$true$$

```
> igcd(a,b);
```

$$2$$

```
> evalf(25^(1/6));
```

$$1.709975947$$

```
> Digits:=20;
```

$$Digits := 20$$

```
> evalf(Pi);evalf(exp(1));
```

$$3.1415926535897932385$$

$$2.7182818284590452354$$

```
> restart;
> evalc(1/(2+a-b*I));
```

$$\frac{2+a}{(2+a)^2+b^2} + \frac{\mathrm{I}\,b}{(2+a)^2+b^2}$$

```
(%i1) primep(17);
(%o1) true

(%i2) factor(18);
(%o2) 2 3^2

(%i3) next_prime(18);
(%o3) 19

(%i4) prev_prime(18);
(%o4) 17

(%i5) a:1234$b:56$

(%i7) q:quotient(a,b);
(%o7) 22

(%i8) r:remainder(a,b);
(%o8) 2

(%i9) is(a=q*b+r);
(%o9) true

(%i10) gcd(a,b);
(%o10) 2

(%i11) float(25^(1/6));
(%o11) 1.709975946676697

(%i12) fpprec : 20;
(%o12) 20

(%i13) bfloat(%pi);bfloat(%e);
(%o13) 3.1415926535897932385b0
(%o14) 2.7182818284590452354b0

(%i15) kill(all);
(%o0) done

(%i1) rectform(1/(2+a-b*%i));
```

(%o1) $\frac{\%i\, b}{b^2+(a+2)^2}+\frac{a+2}{b^2+(a+2)^2}$