```
%Felix Rohrer
format compact
clear
```

```
%Aufgabe 1
s=0.5;
t=2*s+nthroot((32*s^2),3)+sind(180/s-60)+...
cosd(180/s+60)+log(exp(-3*s))
```

```
t =
    1.1340
```

```
%Aufgabe 2
n=10;
%a)
a=factorial(n)
%b)
b=sqrt(2*pi*n)*(n/exp(1))^n
```

```
a =
     3628800
b =
  3.5987e+006
```

```
%Aufgabe 3
3*(sqrt(5-exp(1)))/(sqrt(5+exp(1)))^3-1
```

```
ans =
   -0.7887
```

```
%Aufgabe 4
2^4+log(pi)*sin(.75*pi)+sqrt(exp(2*pi/3))
```

```
ans =
   19.6591
```

```
%Aufgabe 5
sin(pi/4)^2+log10(cos(.7^3))
```

```
ans =
    0.4739
```