

Long method:

```
>> x=0, y = 3*x^2 + exp(0.1*x) -20*sin(x)
      1
>> x=0.5, y = 3*x^2 + exp(0.1*x) -20*sin(x)
      -7.78
>> x=1, y = 3*x^2 + exp(0.1*x) -20*sin(x)
      -12.72
```

Short method

```
>> x=[0 0.5 1 2],
>> y = 3* x.^2 + exp(0.1*x) - 20*sin(x)
      1   -7.78   -12.72   -4.96
```

Notice **the dot .** in $x.^2$

for

```
>> for kk=1:4, aa(kk)=kk^3; end;
aa=[ 1^3    2^3    3^3    4^3  ]
aa=[ 1     8     27    64 ]
-----
```