```
%Vitor Cavalcante%

%Lecture 1%

clc
whos
clear

2 + 3

3-2
3*2
3/2
3\2
3^2
2/0
0/2
3*inf


a = 3
b = 2
a - b
a / b
a^2
c = a * b
d = c^(b+1)
who

%Vitor Cavalcante%

clear; clc
whos
a = 3;
b = 2;
c = a * b;
d = c^(b+1);
who
%a, b, c, d are in workspace%
a, b, c, d

clear; clc
x = 0:0.1:1;
y=x.^2;
whos
plot(x,y,x,y,'o')
disp(''), disp('...........x ...................y .....'), disp([x'
 y'])
x
y
% x and y are 1 by 11 array numbers!!%
```

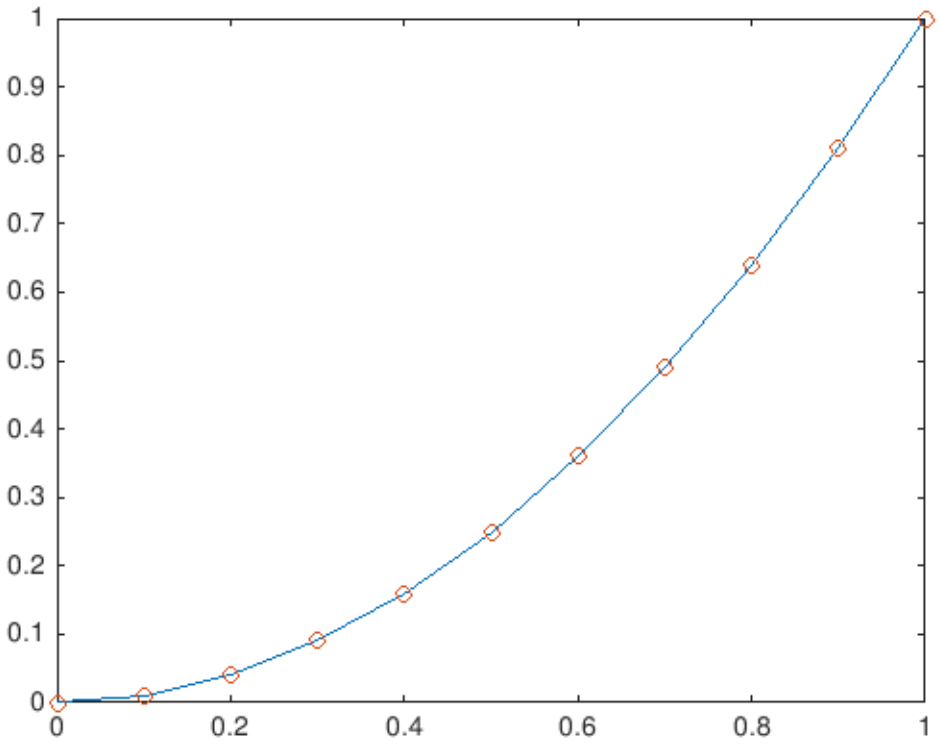
```
%Vitor Cavalcante%

clear; clc
r = 6
h = 12
v = (pi.*r.^2*h)./3
whos
```

```
  Name      Size            Bytes  Class     Attributes

  h         1x1                 8  double
  r         1x1                 8  double
  v         1x1                 8  double


ans =

     5


ans =

     1


ans =

     6


ans =

    1.5000


ans =

    0.6667


ans =

     9


ans =

   Inf


ans =

     0
```

```
ans =

   Inf

a =

     3

b =

     2

ans =

     1

ans =

    1.5000

ans =

     9

c =

     6

d =

   216

Your variables are:

a    ans  b    c    d

Your variables are:

a  b  c  d

a =
```

```
     3

b =

     2

c =

     6

d =

   216

  Name      Size            Bytes  Class     Attributes

  x         1x11               88  double
  y         1x11               88  double

...........x ...................y .....
         0         0
    0.1000    0.0100
    0.2000    0.0400
    0.3000    0.0900
    0.4000    0.1600
    0.5000    0.2500
    0.6000    0.3600
    0.7000    0.4900
    0.8000    0.6400
    0.9000    0.8100
    1.0000    1.0000


x =

  Columns 1 through 7

         0    0.1000    0.2000    0.3000    0.4000    0.5000    0.6000

  Columns 8 through 11

    0.7000    0.8000    0.9000    1.0000


y =

  Columns 1 through 7

         0    0.0100    0.0400    0.0900    0.1600    0.2500    0.3600

  Columns 8 through 11
```

```
    0.4900    0.6400    0.8100    1.0000

r =

     6

h =

    12

v =

  452.3893

  Name      Size            Bytes  Class     Attributes

  h         1x1                 8  double
  r         1x1                 8  double
  v         1x1                 8  double
```



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