```
>> 1+3

ans =

     4

>> 13-4

ans =

     9

>> 12*3

ans =

    36

>> 36/3

ans =

    12
```

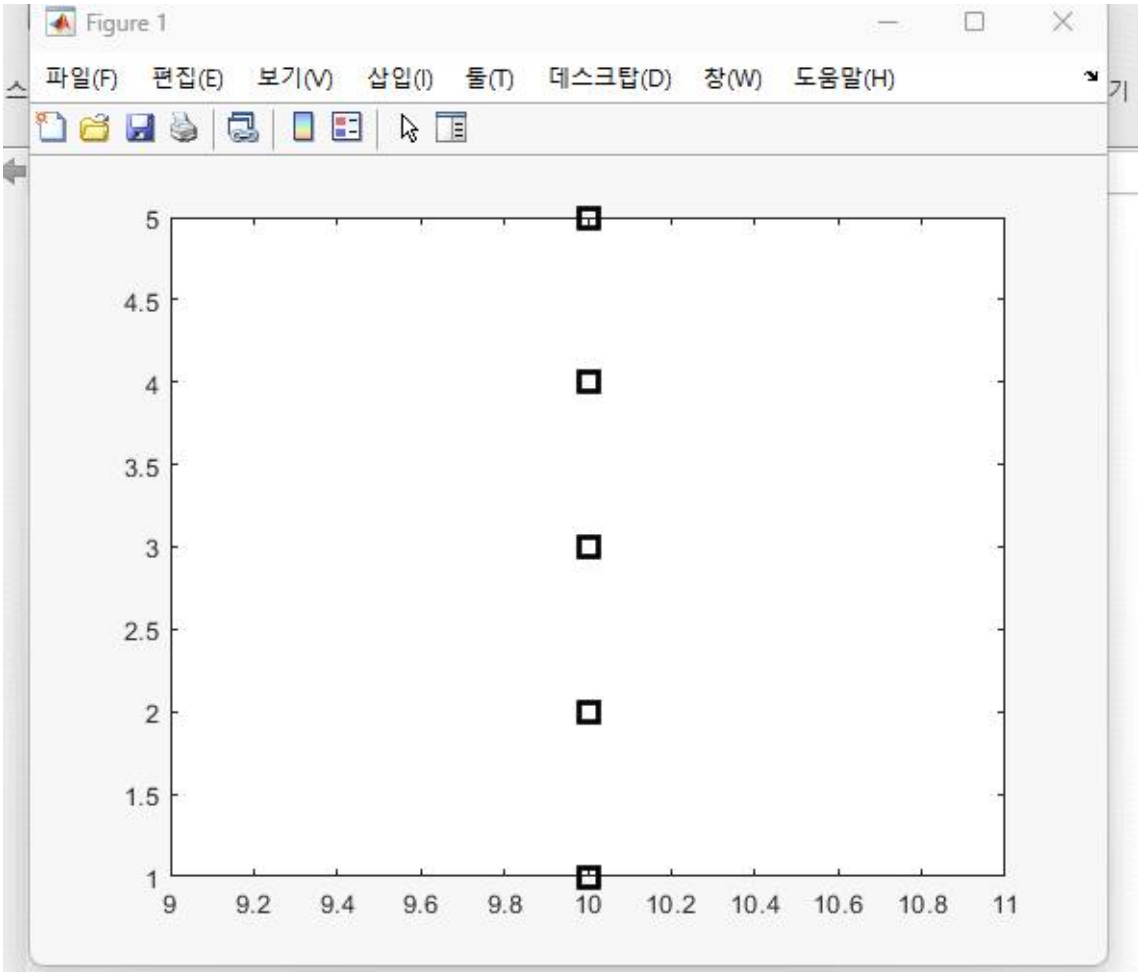
```
>> x=[1 2 3 4 5]; y=[5 4 3 2 1];
>> x<y

ans =

  1×5 logical 배열

   1   1   0   0   0

>> x<=y

ans =

  1×5 logical 배열

   1   1   1   0   0

>> x==y

ans =

  1×5 logical 배열

   0   0   1   0   0

>> x>=y

ans =

  1×5 logical 배열

   0   0   1   1   1

>> x>y

ans =

  1×5 logical 배열

   0   0   0   1   1
```

```
>> a=3;
>> if a<1
b=a+1
else
c=a+2
end

c =

     5
```

```
>> for x=0:2:10
a=2^x
end

a =

     1


a =

     4


a =

    16


a =

    64


a =

   256


a =

        1024
```

```
>> a=1;
>> while a<4
a=a+1
end

a =

     2


a =

     3


a =

     4
```

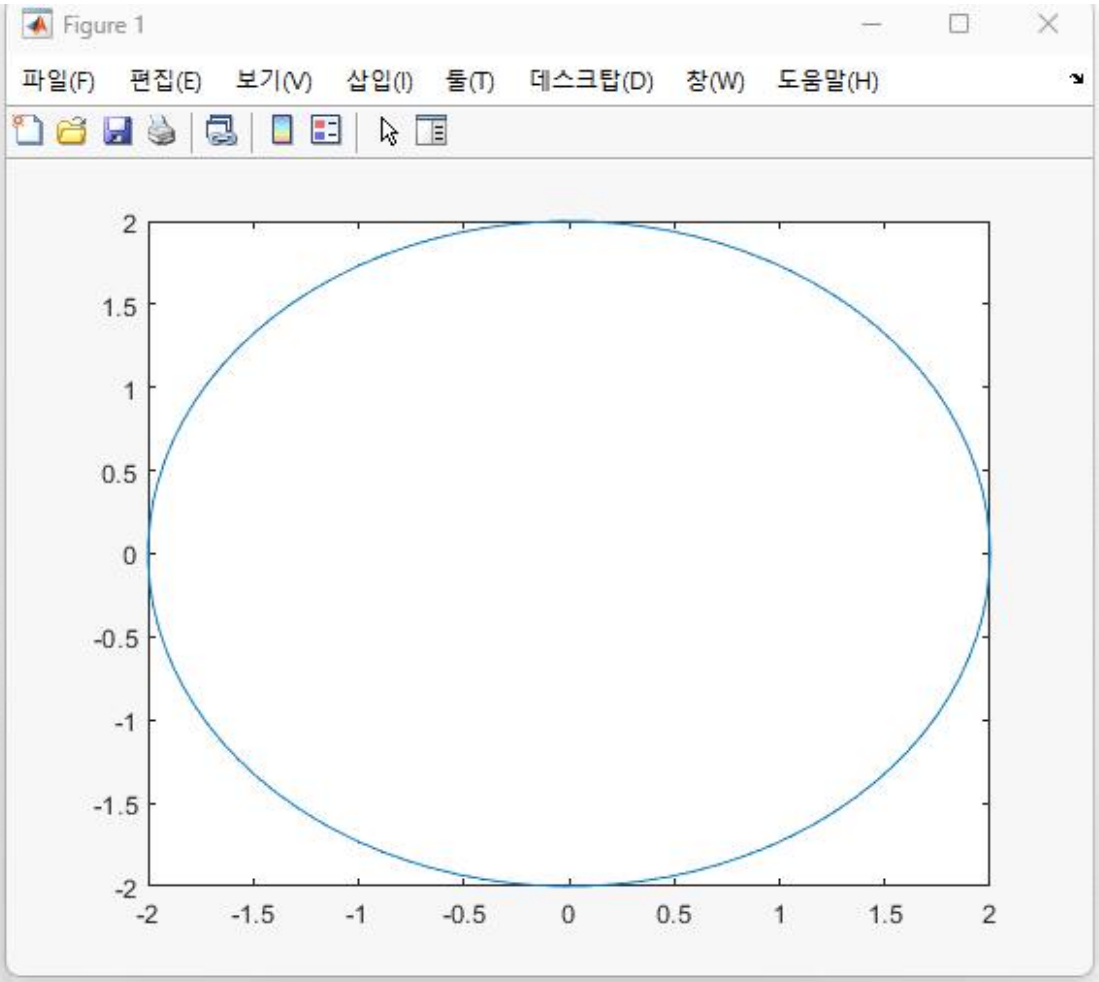
```
>> a=1; b=2, c=3;

b =

     2
```



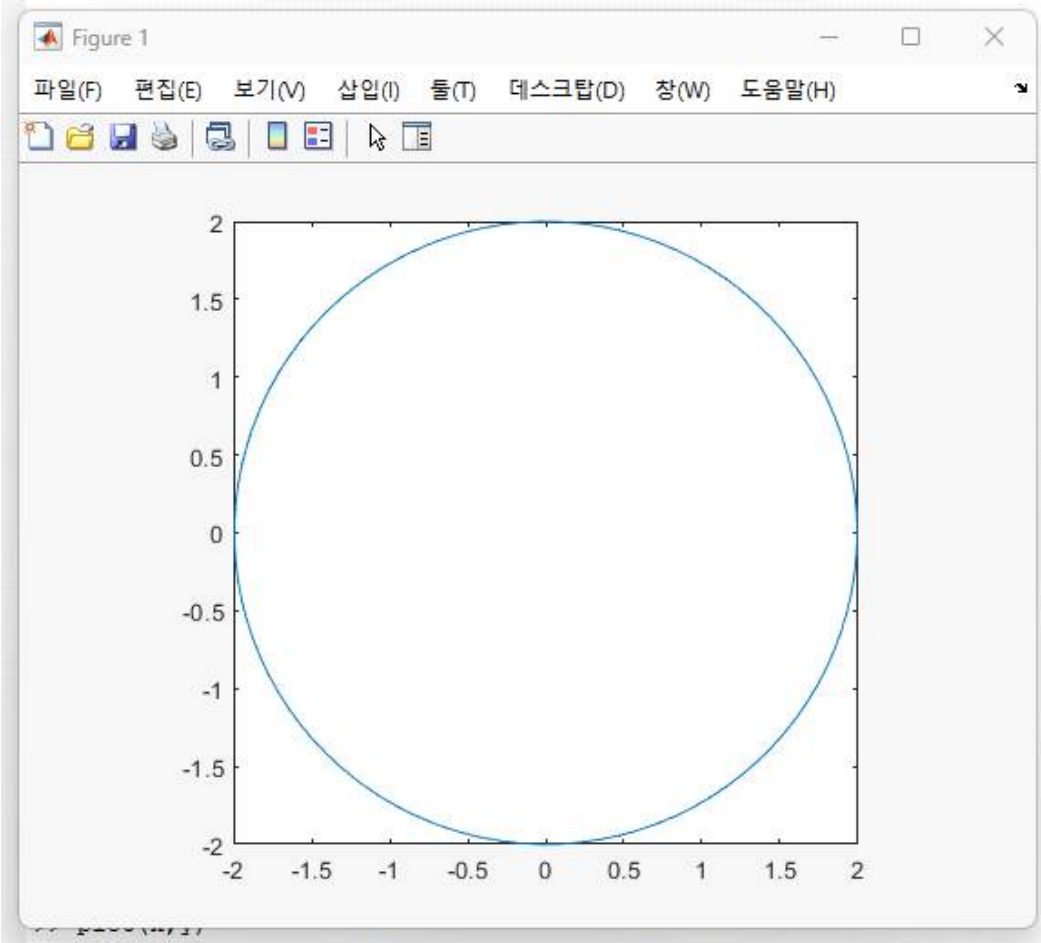

```
>> plot(x,y,'--rs','LineWidth',2,'MarkerEdgeColor','k',...
'MarkerSize',10)
```

```
>> f=inline('x^3+6*x-2','x');
>> f(3)

ans =

    43

>> f=inline('x.^3+6*x-2','x');
>> f([3 4 5])

ans =

    43    86   153
```

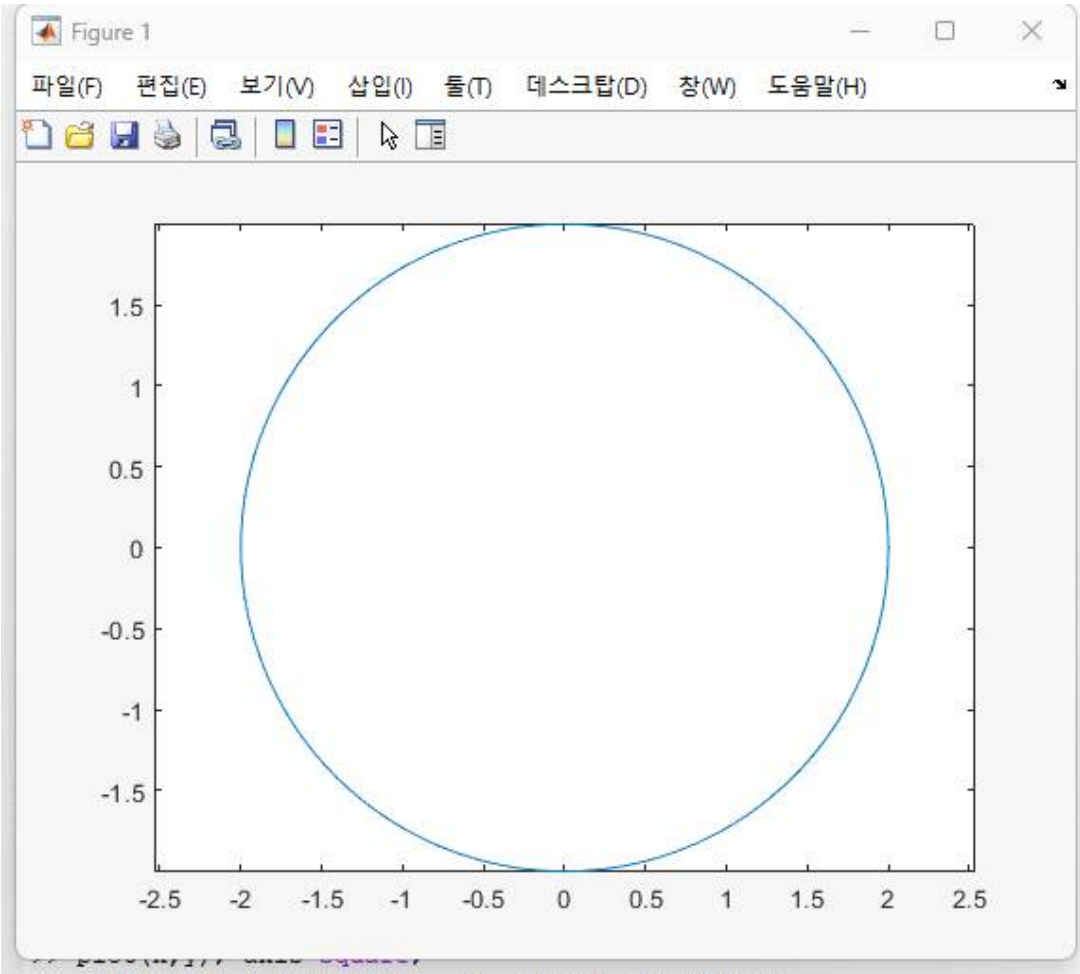
```
>> x=linspace(0,5,6)

x =

     0     1     2     3     4     5
```



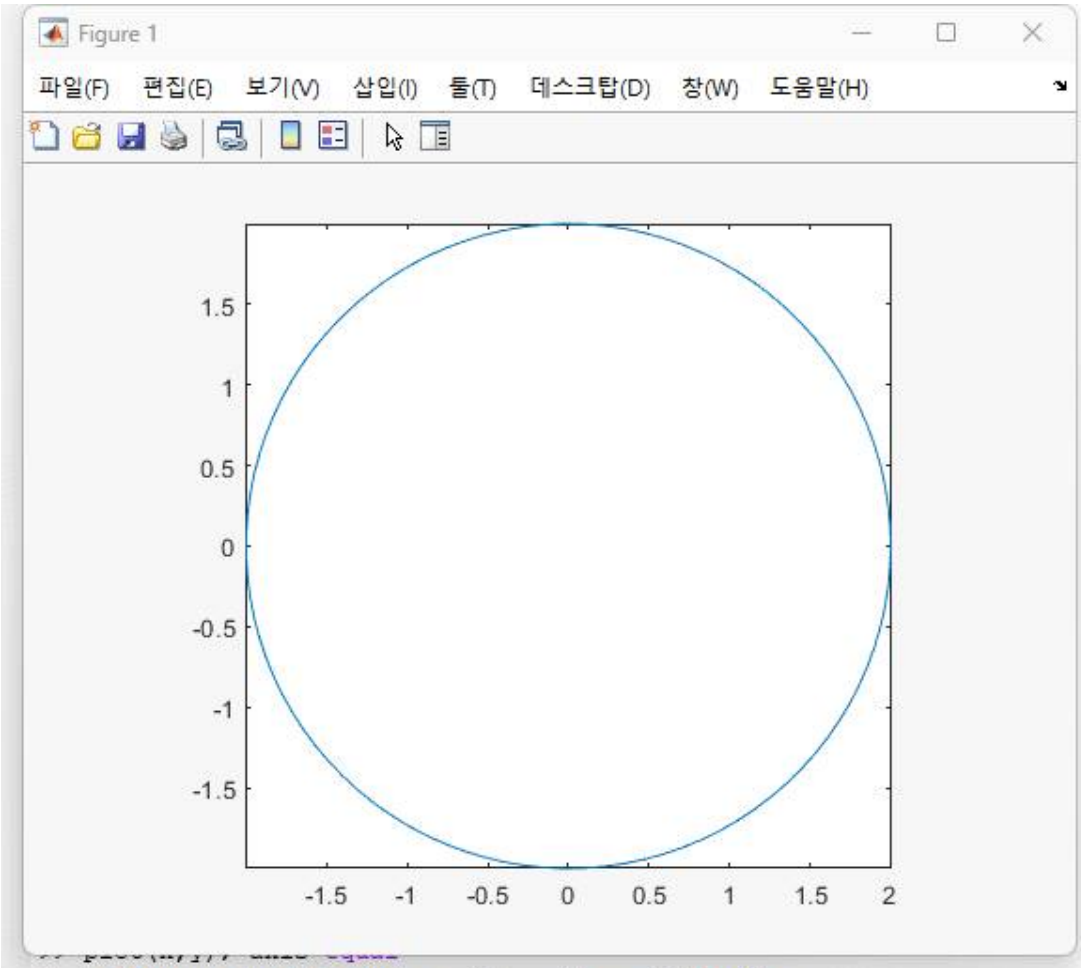

```
>> t=linspace(0,2*pi,100); x=2*cos(t); y=2*sin(t);
>> plot(x,y)
```




```
>> t=linspace(0,2*pi,100); x=2*cos(t); y=2*sin(t);
>> plot(x,y); axis square;
>>
```




```
>> t=linspace(0,2*pi,100); x=2*cos(t); y=2*sin(t);
>> plot(x,y); axis equal
>>
```




```
>> t=linspace(0,2*pi,100); x=2*cos(t); y=2*sin(t);
>> plot(x,y); axis image;
>>
```

```
>> ones(3)

ans =

     1     1     1
     1     1     1
     1     1     1

>> zeros(2)

ans =

     0     0
     0     0

>> C=[1 2 3]; length(C)

ans =

     3

>> A=[1 2 3; 4 5 6; 7 8 9];
>> sum(A)

ans =

    12    15    18

>> abs(-3)

ans =

     3
```

test.m

```
1 2
3.500000 4.500000
1.000000e+02 1.000000e+03

```

명령 창

```
>> fp=fopen('test.m','w');
>> fprintf(fp,'%d %d\n', 1, 2);
>> fprintf(fp,'%f %f\n', 3.5, 4.5);
>> fprintf(fp,'%e %e\n', 100, 1000);
>> fclose(fp);
```

```
>> a=load('test.m');
>> a

a =

   1.0e+03 *

    0.0010    0.0020
    0.0035    0.0045
    0.1000    1.0000
```

```
>> Random_matrix=rand(2,3)

Random_matrix =

    0.8147    0.1270    0.6324
    0.9058    0.9134    0.0975

>> rand('seed',3)
>> rand(2,3)

ans =

    0.5387    0.0512    0.3010
    0.3815    0.2851    0.1277
```