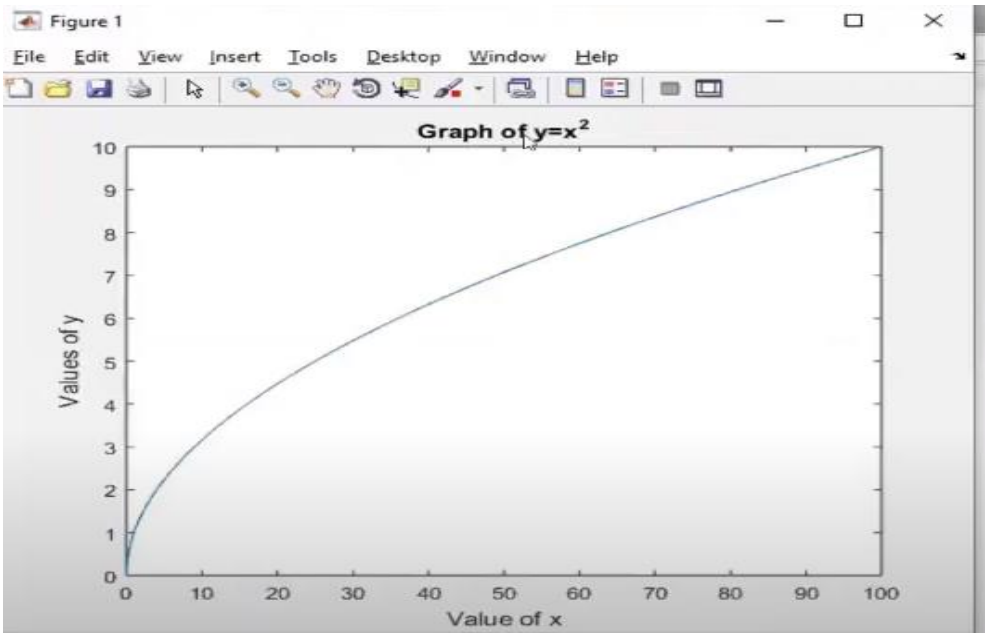
Ministry of Higher Education and
Scientific Research – Iraq
AL-Mustaqbal University
Department of Electrical Engineering techniques
Application computer
Assist lect : Salwan Saud
Lecture :seven

Draw in MATLAB 2D,3D




```
>> plot(y,x)
>> xlabel('Value of x')
>> ylabel('Values of y')
>> title('Graph of y=x^2')
>> title('Graph of $y=x^2$')
>> xlabel('Values of \alpha')
>> xlabel('Values of \beta')
>> grid on
```

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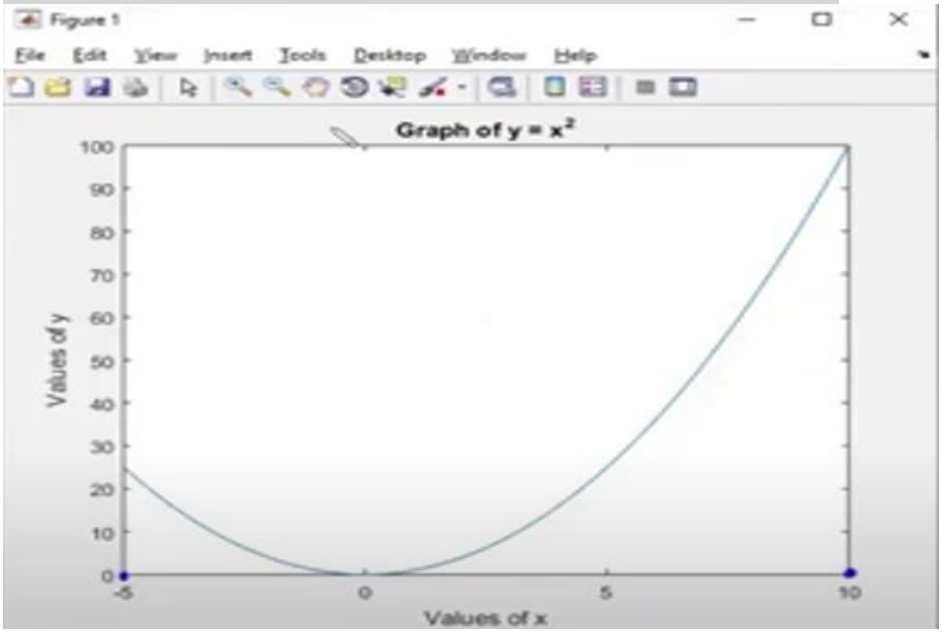
```
format short
clear all
clc

x = -5:0.1:10;
y=x.^2;
plot(x,y)
xlabel('Values of x')
ylabel('Values of y')
title('Graph of y = x^2')
```




```
x = -5:0.1:10;
y=x.^2;
y1 = sin(x);
y2 = exp(x)+3;
plot(x,y, x, y1)

xlabel('Values of x')
ylabel('Values of y')
title('Graph of y = x^2')
grid on
```

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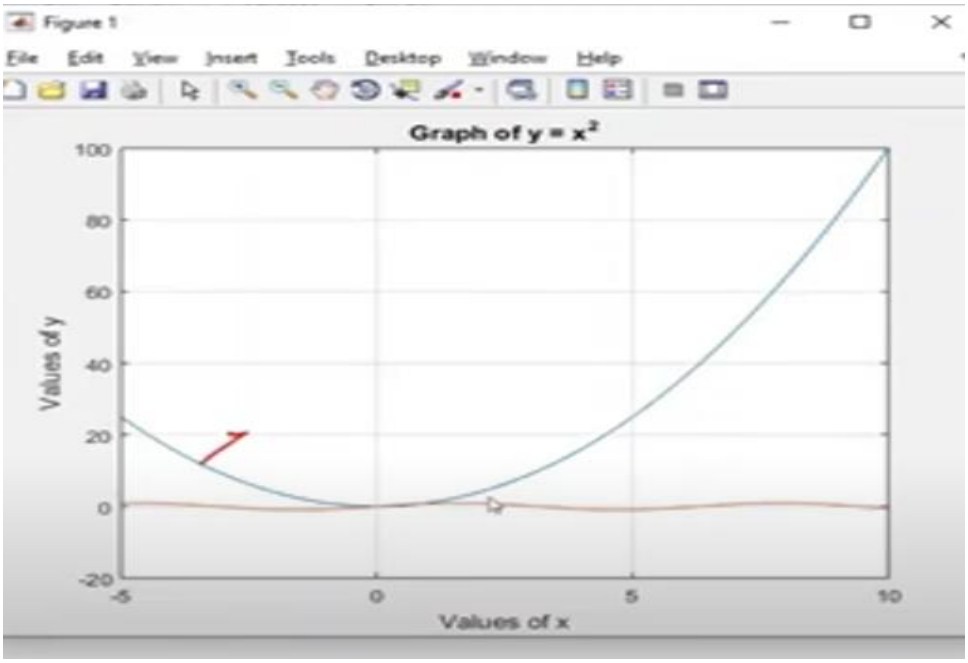


```
x = -5:0.1:10;
y=x.^2;
y1 = sin(x);
y2 = exp(x)+3;
plot(x,y, x, y1)

xlabel('Values of x')
ylabel('Values of y')
title('Graph of y = x^2')
legend('y=x^2','y=sinx')
```

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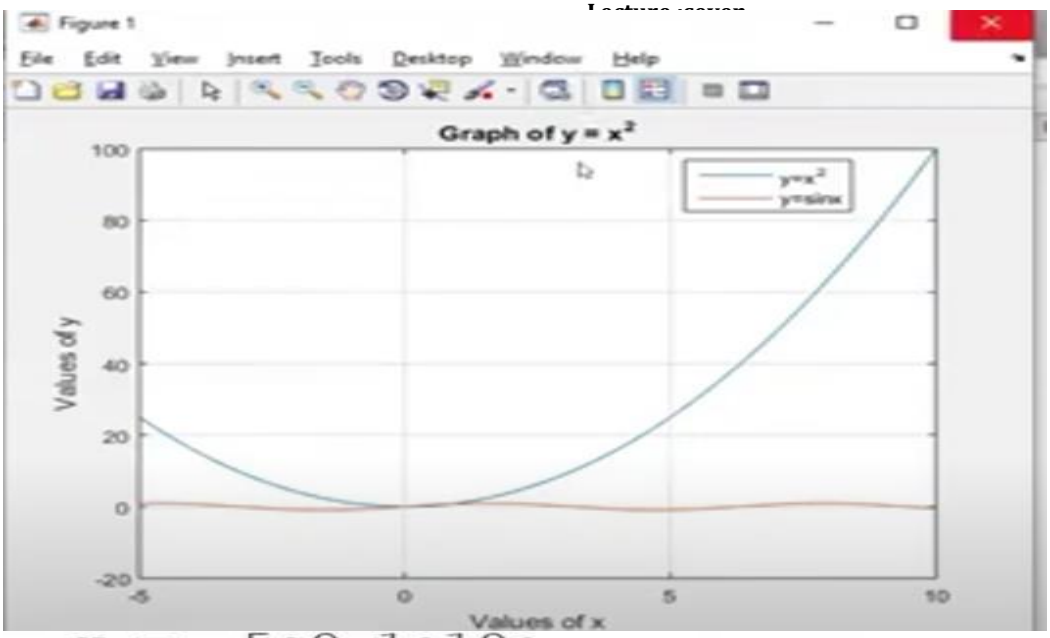


```
x = -5:0.1:10;
y=x.^2;
y1 = sin(x);
y2 = exp(x)+3;
figure(1)
plot(x,y, x, y1, x, y2)
xlabel('Values of x')
ylabel('Values of y')
title('Graph of y = x^2')
%legend('y=x^2','y=sinx')

figure(2)
plot(x,y)
hold on
```

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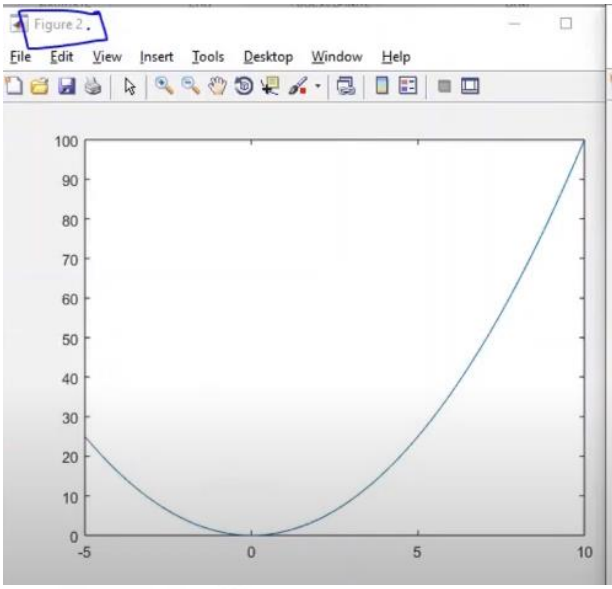

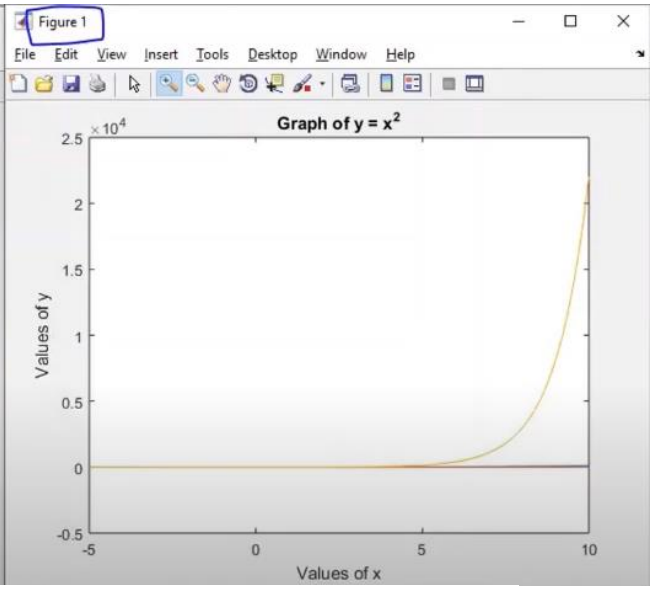


```
y1 = sin(x);
y2 = x+3;
%figure(1)
plot(x,y,'r', x, y1,'b', x, y2,'g')
xlabel('Values of x')
ylabel('Values of y')
title('Graph of y = x^2')
legend('y=x^2','y=sinx','y=x+3')
```

```
y1 = sin(x);
y2 = x+3;
%figure(1)
plot(x,y,'--r', x, y1,'ob', x, y2,'g')
xlabel('Values of x')
ylabel('Values of y')
title('Graph of y = x^2')
legend('y=x^2','y=sinx','y=x+3')
```

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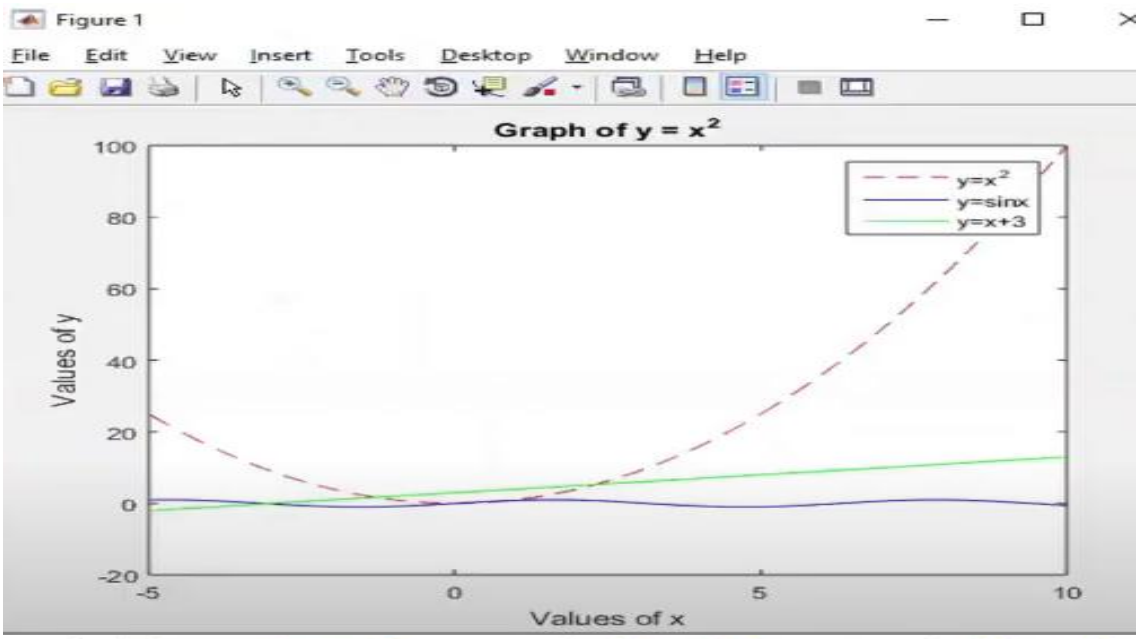
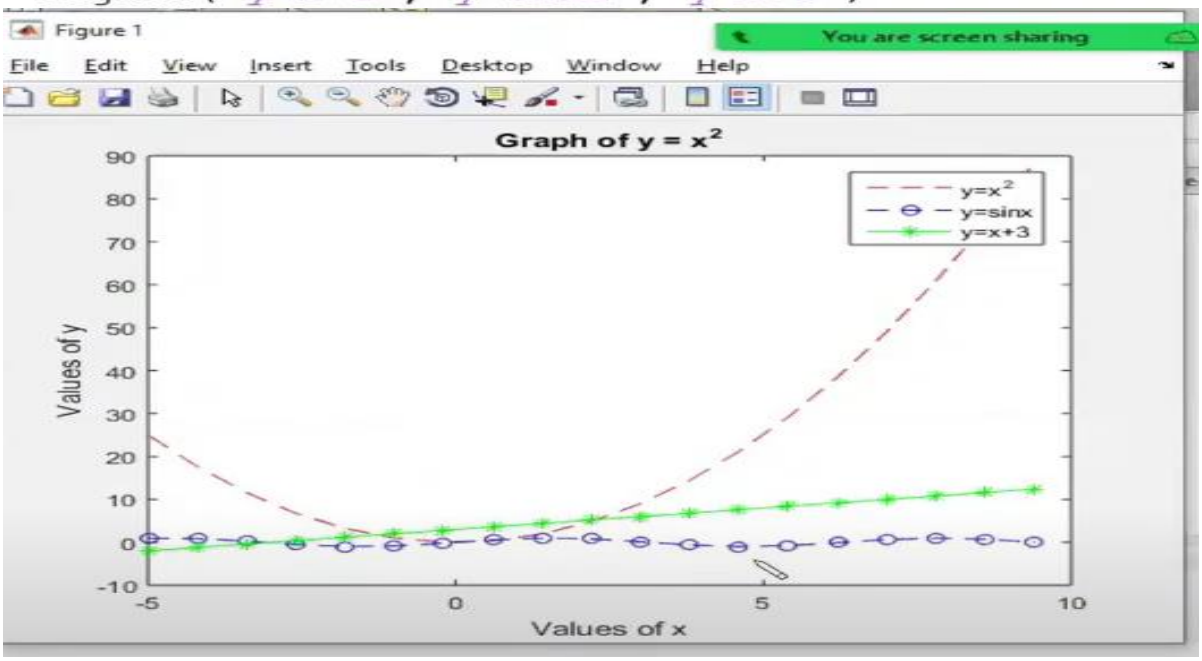



```
plot(x,y,'--r', x, y1,'o--b', x, y2,'*-g')
xlabel('Values of x')
ylabel('Values of y')
title('Graph of y = x^2')
legend('y=x^2','y=sinx','y=x+3')
```



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