

**Ministry of Higher Education and Scientific Research**  
**University of Anbar**  
**College of Computer Science and Information Technology**  
**Computer Science Department**



# **Computer Graphics 2D**

**1<sup>st</sup> Lab**

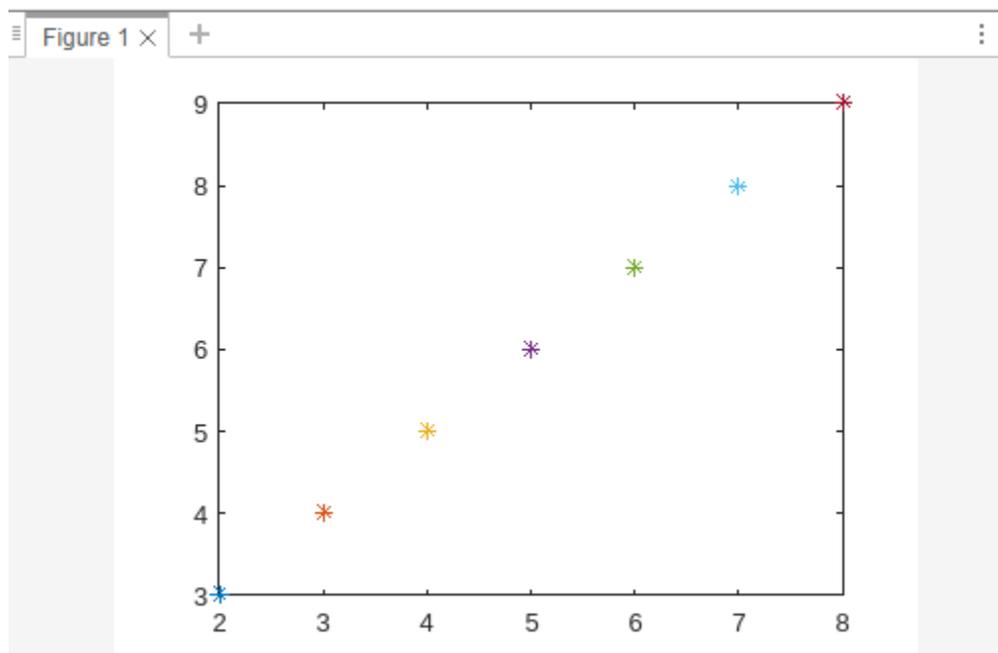
**By:**

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# Line Drawing: By using Line Equation

## Example:

```
x1 = 2;  
y1 = 3;  
x2 = 8;  
y2 = 9;  
dx = x2 - x1;  
dy = y2 - y1;  
m=dy/dx;  
b=y1-m*x1;  
for x=x1:x2  
    y=m*x+b;  
    plot(x, y, '*');  
    hold on;  
end
```



```
clc;  
x = 2 : 10;  
m=6;  
y=m*x+b;  
plot(x, y, 'g');  
grid;
```

