

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



# **Computer Graphics 3D**

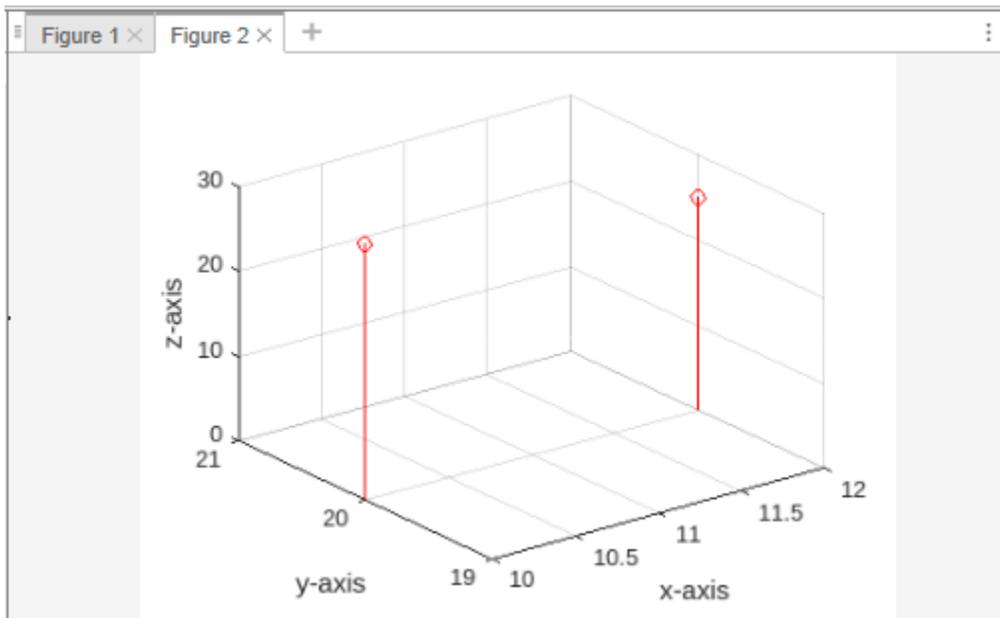
**7<sup>th</sup> Lab**

**By:**

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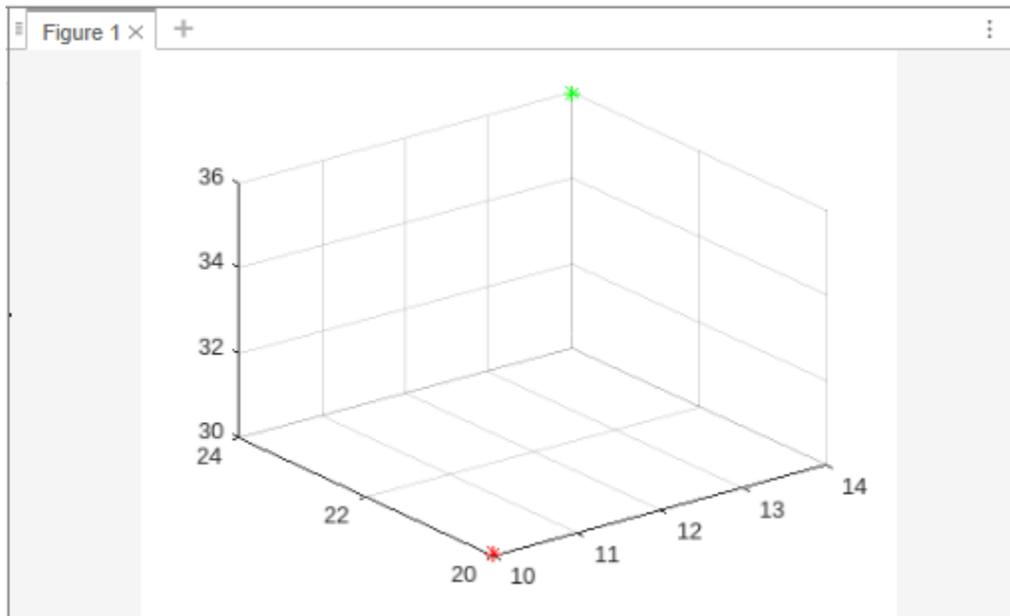
## Three-Dimension Line Plot:

```
clear
clc
Arr1=[10 20 30 ],
Arr2=[12 20 25],
Arr=[Arr1;Arr2];
figure
stem3(Arr(:,1),Arr(:,2),Arr(:,3),'r')
grid on
xlabel('x-axis')
ylabel('y-axis')
zlabel('z-axis')
```



## Three-Dimension point Translation

```
clc;  
trans=[4 4 6];  
p=[10, 20, 30];  
p2= p+trans;  
plot3(p(1),p(2),p(3), 'r*');  
hold on, grid on  
plot3(p2(1),p2(2),p2(3), 'g*');
```



## Three-Dimension Line Translation

```
clc;  
trans=[6 6 6 ; 8 8 8];  
p=[10 15 20 ; 30 40 60];  
p2= p+trans;  
plot3(p(:,1),p(:,2),p(:,3), 'r');  
hold on, grid on  
plot3(p2(:,1),p2(:,2),p2(:,3), 'g');
```

