

Q5. Sketch the curve $\begin{cases} x = t \\ y = 2t \\ z = t \sin(t) \end{cases}$ for $0 \leq t \leq 2\pi$.

MATLAB Command

```
>> t=meshgrid(0:0.1:2*pi);  
>> x=t;  
>> y=2.*t;  
>> z=t.*sin(t);  
>> mesh(x,y,z,'EdgeColor','black');  
>> xlabel('x-axis');  
>> ylabel('y-axis');  
>> zlabel('z-axis');
```

