Section 2:

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Workspace

| Name | Value | Max | Class |
|---|---|---|---|
| ans | 4 | 4 | double |
| k | 701 | 701 | double |
| x | *1x1751 double* | 10 | double |
| y | *1x1751 double* | 14 | double |

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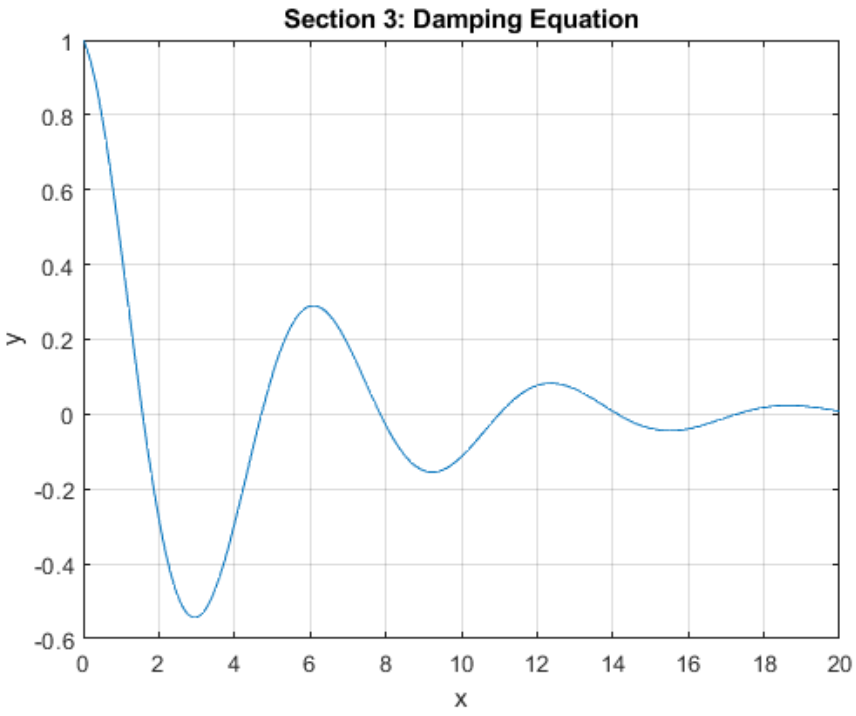
section2.m

```
1   init();
2   x=linspace(0,10,1751)
3   num=[1 0 -16];
4   ynum=polyval(num,x)
5   den=[1 -4]
6   yden=polyval(den,x)
7   y=ynum./yden
8   k=find(isnan(y))
9   x(k)
10  y(k)=8
11  make_plot(x,y,"Section 2: (x^2-16)/(x-4)","x","y")
```




Section 4:

a. $x(t) = 4\cos(5t + 60), r = 4, \theta = 60 \rightarrow \vec{X} = 4e^{\frac{\pi}{3}}, s = j5$
b. $x(t) = 3\cos(2t + 12), r = 3, \theta = 12 \rightarrow \vec{X} = 3e^{\frac{j12\pi}{180}}, s = j2$
c. $x(t) = \cos(t), r = 1, \theta = 0 \rightarrow \vec{X} = e^{0}, s = j1$