Jonathan Sumner

Lab 2 – Phasors

EEET-332.01 – Signals, Systems, and Transformers Lab

Due Date: 09/22/2024

Section 2:

C: ▸ Users ▸ impos ▸ OneDrive - rit.edu ▸ School ▸ Year 5 ▸ Semester 1 ▸ EEET 332 ▸ Lab 2

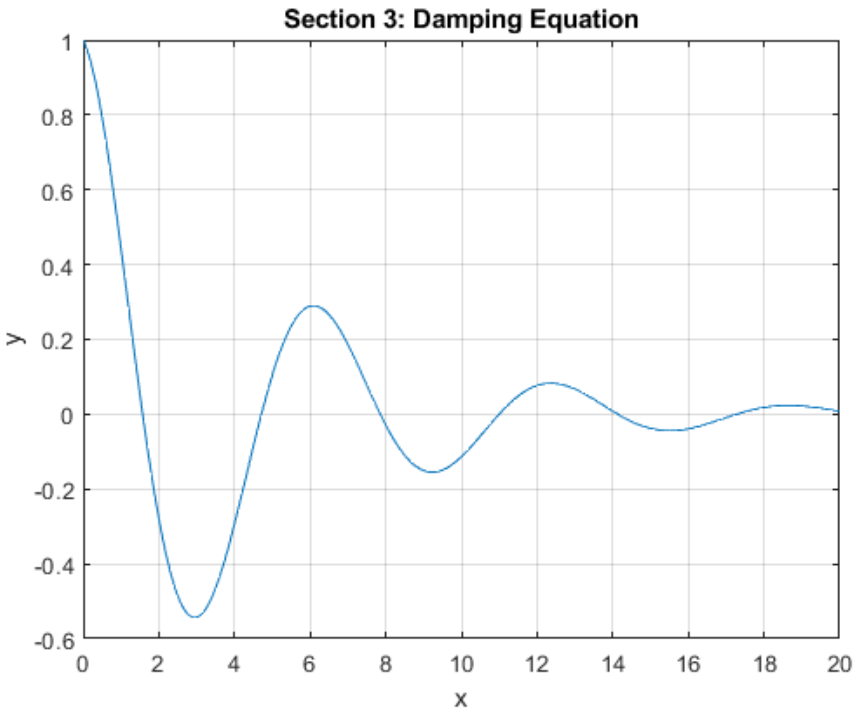
Workspace

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

Editor - C:\Users\impos\OneDrive - rit.edu\School\Year 5\Semester 1\EEET 332\Lab 2\section2.m

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. $x(t) = \cos(t), r = 1, \theta = 0 \rightarrow \vec{X} = e^{0}, s = j1$

Signals Systems and Transforms
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Lab 2

Report:

Add a cover page to your Word document.

Submit the Word document (report) including the print-out from sections 2-3, the solution from section 4, and this sign-off sheet.

Sign-offs

Name Jonathan Sumner

Section 1: shifted cosine wave

Signature	Date
	09/16/24

Section 2: L'Hôpital

Signature	Date
	09/16/24