Lab 2

CEG3185[A] - Intro to Data Communications & Networking

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School of Electrical Engineering and Computer Science

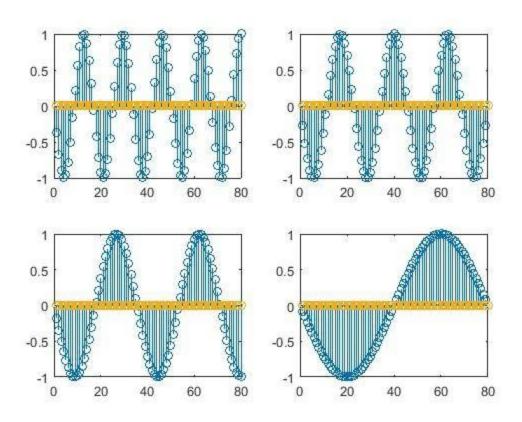
Objectives:

- To demonstrate knowledge of MATLAB and to learn basic problem solving in the MATLAB environment
- To lean how to simulate continuous signals on a digital system.
- To lean how to use matlab to visualize different aspects of a complex system.

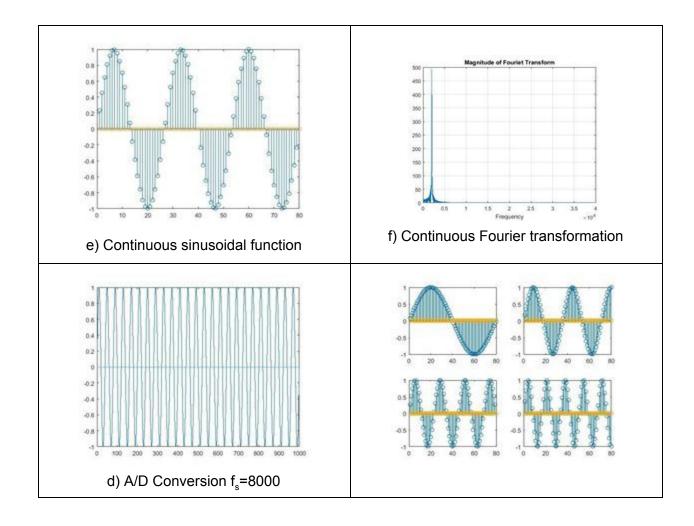
Equipment and components:

- Windows PC
- MATLAB software

Part I:



Part 1 with varied frequencies



Part II:

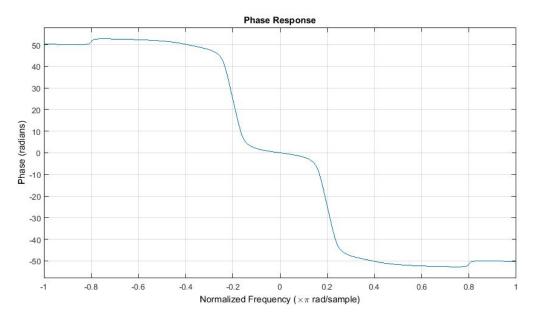


Figure 5.3(b)

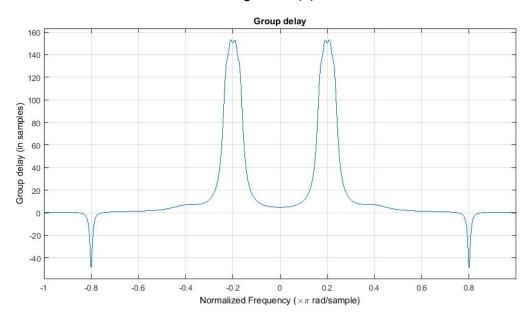


Figure 5.4(a)

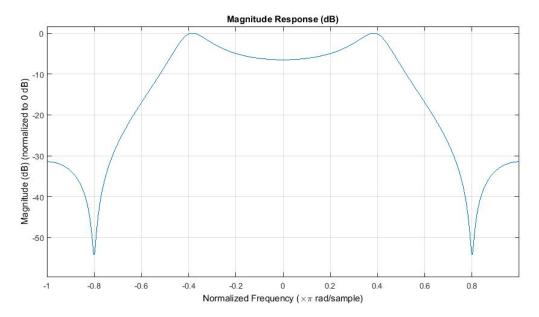


Figure 5.4(b)

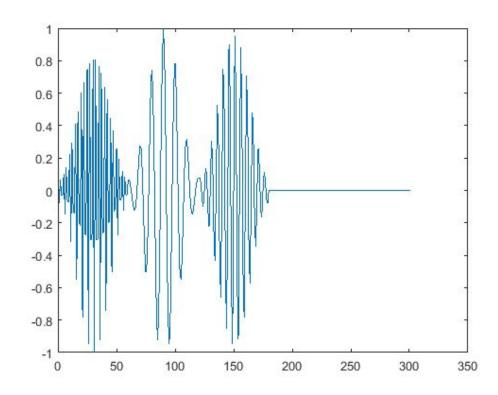


Figure 5.5

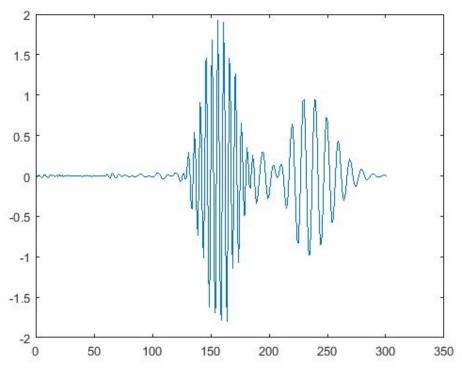


Figure 5.6

Conclusion:

In conclusion, today's lab showed us how to take a complex system and convert it into matlab and analyze different aspects of that system such as magnitude, group delay, and magnitude of frequency response. We also learned how to use Matlab to model frequencies and change time domain of a wave.