Lab 1

CEG3185[A] - Intro to Data Communications & Networking

Winter 201

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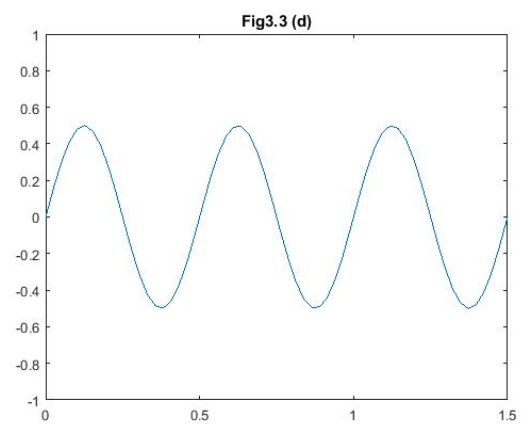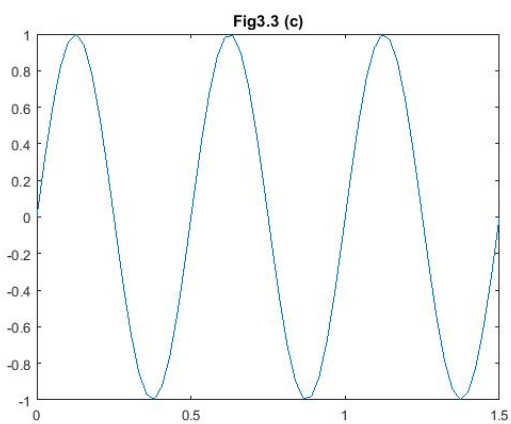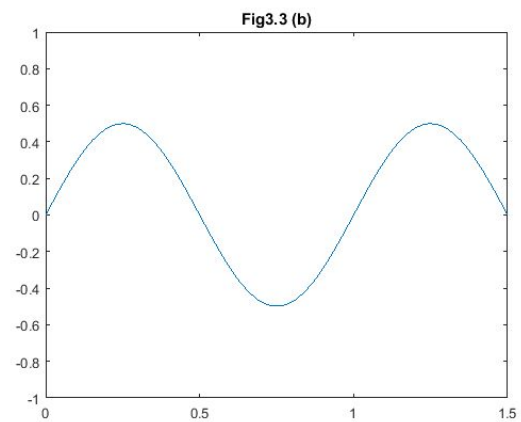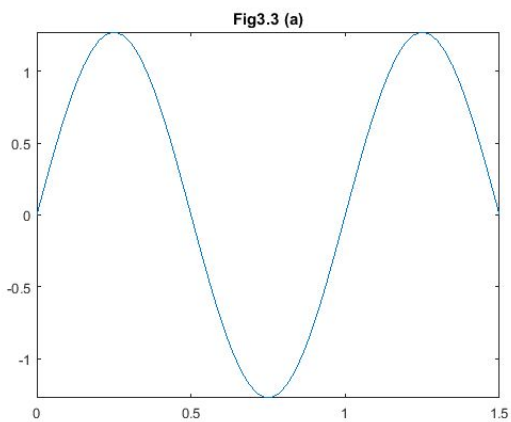School of Electrical Engineering and Computer Science

Objectives:

- To demonstrate knowledge of MATLAB and to learn basic problem solving in the MATLAB environment
- To visualize functions and frequency distributions of WAV files
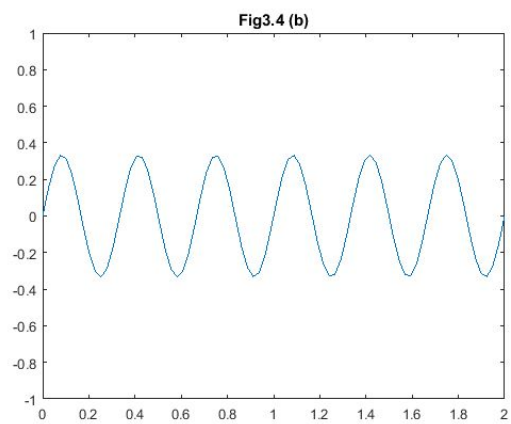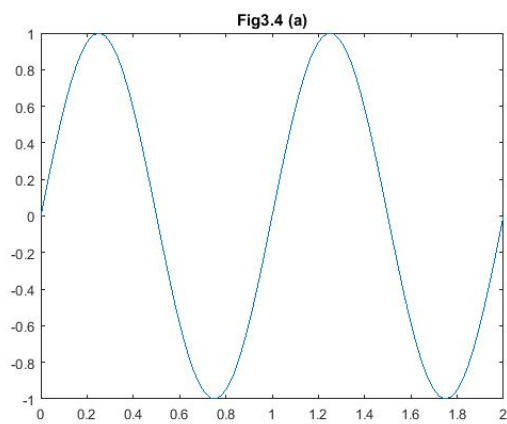
Equipment and components:

- Windows PC
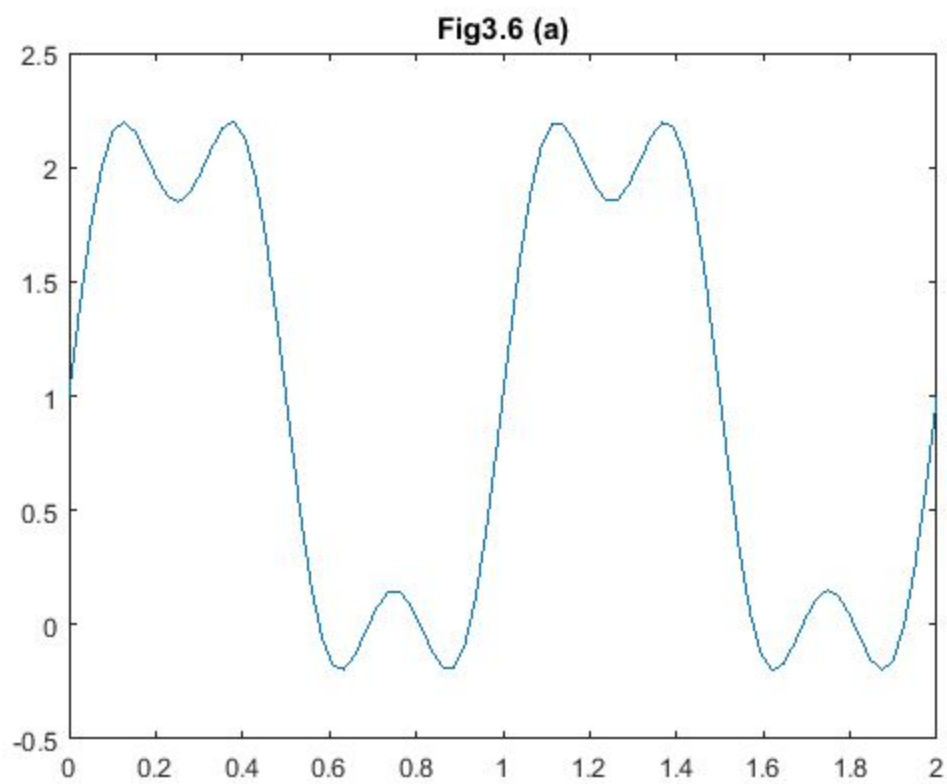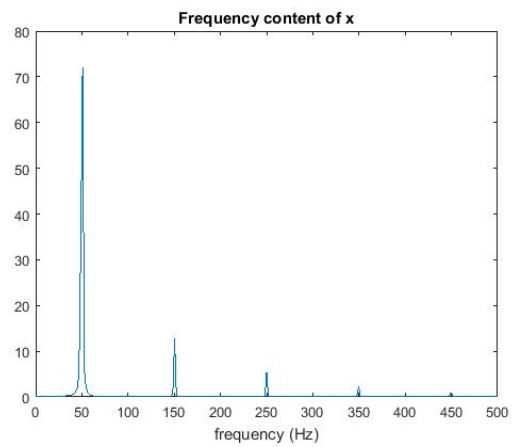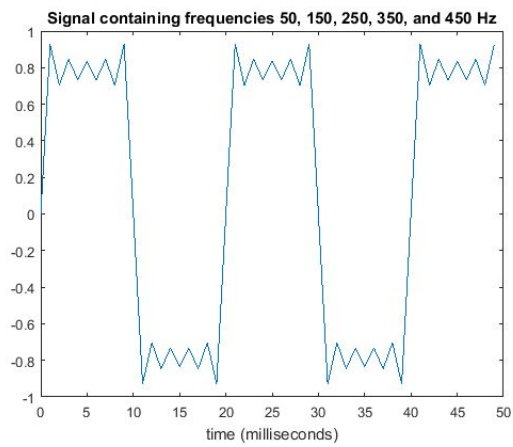- MATLAB software
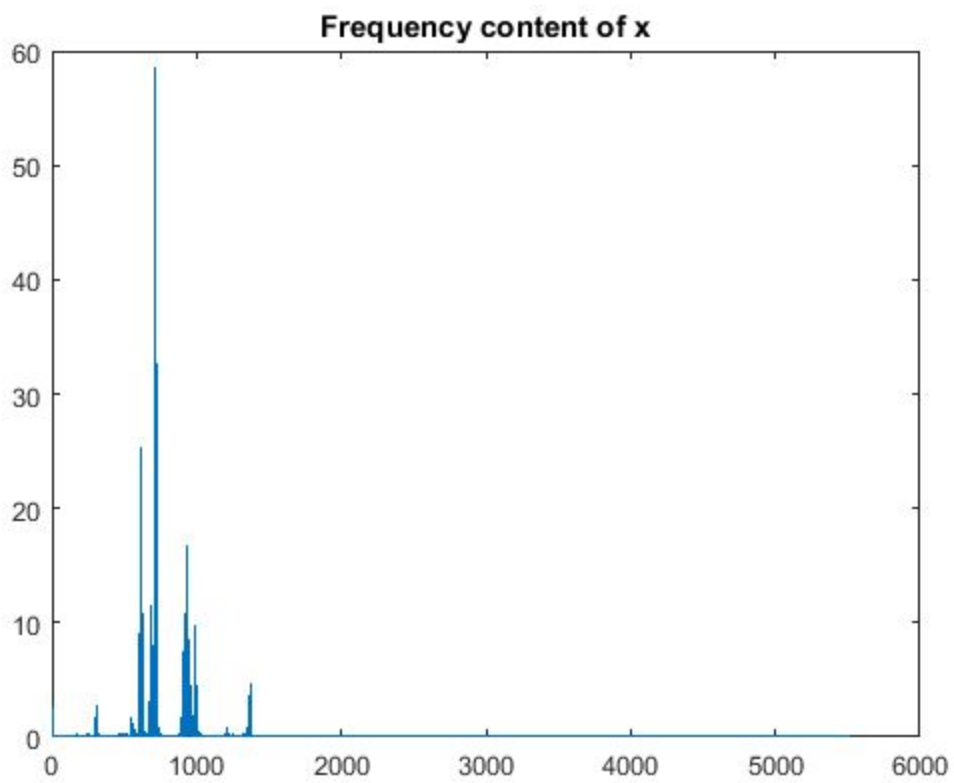- Provided WAV files

Question 1:

Question 2:

Fig3.4 (a)

Fig3.4 (b)

Question 3:

Fig3.6 (a)

Question 4:

Signal containing frequencies 50, 150, 250, 350, and 450 Hz

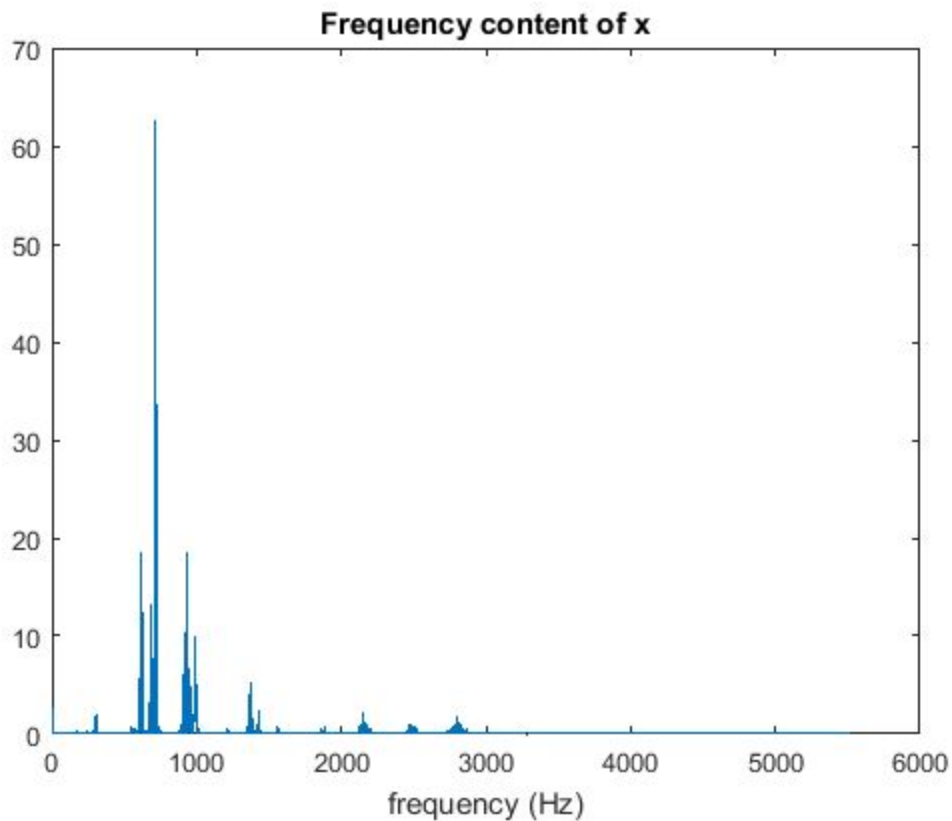Frequency content of x

Question 5:

Frequency content of x

Question 6:

Major Difference between the above two is that past 1000Hz there is no longer the same resultig graph in Q6. The resulting graph is much less amplified than that of Q5

Frequency content of x

Conclusion:

In conclusion, today's lab showed us the basic fundamentals of MATLAB and learned basic problem solving given a set of questions. Additionally we learned how to develop and visualize functions and frequency distributed WAV files