Matlab/Octave Lab 1

In this lab, we get Matlab or Octave set up and get some practice entering the commands. We'll then finish by reading over Section 1.6 and working out a few exercises.

Part 1: Getting to know Matlab/Octave

1. Install the software or get an account with Octave-online (it's free).

2. Watch the video about how to upload a data file onto Octave online (if you're using it).

3. Type the commands in the introduction handout, and save them as a script file- This will be pages 2-7, and there is a lot of discussion included. You only need to type the actual commands that are given.

4. Run the script file and take a screen shot of the output.

What to turn in for this part? Just the screenshot (and upload to Canvas).

Part 2: An Application of Linear Algebra

1. Read over section 1.6 of our textbook. Three applications are discussed, and you only need to do the exercises for one of them.

2. Choose one of the following, and solve using Matlab/Octave.

   (a) Economics application: Solve exercises 4 and 5.
   (b) Chemistry application: Solve exericses 9 and 11.
   (c) Network application: Solve exercises 13 and 14- Use Matlab/Octave even if it is a simple set of equations.

   What to turn in? Write up your solutions, and take a screenshot of your Matlab/Octave supporting work. Upload to Canvas.

   Due Date: Wednesday Oct 6 (before Oct Break)