Assignment #6

Due Tuesday, 29 October 2019, at the start of class

This Assignment is based on Chapter 7 and 8 material. Make sure to read the beginning of Chapter 8, namely sections 8.1–8.4.

Remember that when you turn in homework problems involving MATLAB/OCTAVE, the following two expectations always apply:

- 1. The commands that you used must be shown, along with the results.
- 2. Please strive to minimize use of paper while answering the question.

Do the following exercises:

Chapter 7

- Exercise 14 on page 178. (Hint: This is only a few lines of MATLAB, but you will have to think about how to build them. You can use vander() to build the matrix A. Before doing the full job, work out, and visualize using polyval(), a lower-degree example such as a degree 2 polynomial through 7 points on the graph of b(t); of course, don't turn that in. The results you should show are your code and the 11 polynomial coefficients from each part.)
- Exercise 16 on page 179.

CHAPTER 8

- Exercise 1 (a) and (b) on page 207.
- Exercise 2 on page 207.
- Exercise 4 (a) and (b) on pages 207–208.
- Exercise 7 (a) and (c) on pages 208–209.