Homework 6: Due November 13th, 2017

First, do these problems. These will be graded for completion.

- 2.6: 6 (you can use MATLAB for all calculations.),
- 2.7: 12
- 3.1: 5, 8
- 3.5: 1, 2, 7, 11, 18a, 23, and read 28, 29, but you don’t have to do them.

Then do these problems. These will be graded for correctness.

1. Explain why using a tiny pivot can be disastrous.
2. Explain why we use Gaussian elimination with partial pivoting even though it is not backwards stable.

For additional practice, here are some optional problems. These should not be turned in.

- 2.6: 4
- 3.1: 6
- 3.5: 13, 17