

## Homework Assignment 4

### Due on Friday 10/25

#### Programming Problems:

1. Implement the backward substitution and Gaussian elimination for general matrices. Your code needs to be able to use partial pivoting and scaled pivoting.

#### Writing Problems:

Do the following exercise problems in the text book by Bradie,

Sec 3.0: 10, 14(b), 16

Sec 3.1: 2, 6, 7, 8(b), 9(b), 10, 14

Sec 3.2: 3, 7, 13, 19, 20

Do 2 in Sec 3.1 and 3, 7, 13 in Sec. 3.2 by hand, and calculator if you need, but without using codes. You can use your codes to solve other problems.

We only discuss \* problems in discussion section.