Week 3

Monday February 6 Class 7:

**Reduced Row Echelon Form and Rank.** We will discuss the reduced row echelon form of a matrix, sometimes denoted $\text{rref}(A)$, and introduce the important concept of rank of a matrix.

**Reading:**
- Poole, Section 2.2

**Homework #7:** (due in Class 8)
- Poole, Section 2.2: 1, 2, 3, 4, 5, 6, 7, 8, 22, 23, 26, 27, 28, 29, 36, 43. EXTRA CREDIT # 47.

**QUIZ #2 DUE**

Wednesday February 8 Class 8:

Linear Independence, linear dependence and span.

**Reading:**
- Poole, Section 2.3

**Homework #8:** (due in Class 9)
- Poole, Section 2.3: # 1, 2, 3, 4, 13, 14, 25, 26. EXTRA CREDIT: 43.

Friday February 10 Class 9:

**Applications of Linear Systems.** Lots of examples of situations where linear systems can occur.

**Reading:**
- Poole, Section 2.4

**Homework #9:** (due in Class 10)
- Poole, Section 2.4 4, 11, 12, 31, 32, 39, 40, 41, 46. EXTRA CREDIT 47.

**QUIZ #3**