Week 8

Monday March 20 Class 19:

**Applications of Linear Algebra.** We will look at one or two very cool applications of linear algebra to graph theory.

Reading:

Poole, Section 3.7

Homework #18: (due in Class 20)

Poole, Section 3.7: 27, 28, 29, 30, 35, 36, 37, 38.

**QUIZ #6 DUE**

Wednesday March 22 Class 20:

**Eigenvalues and Eigenvectors.** We will be introduced to the concept of eigenvectors and eigenvalues of a matrix for 2x2 matrices.

Reading:

Poole, Section 4.1

Homework #19: (due in Class 21)

Poole, Section 4.1: 3, 4, 5, 6, 10, 11, 16, 17, 21, 22. EXTRA CREDIT 36, 37

Friday March 24 Class 21:

**Determinants.** We will learn all sorts of ways to compute determinants of matrices.

Reading:

Poole, Section 4.2

Homework #20: (due in Class 22)

Poole, Section 4.2: 4, 6, 7, 10, 15, 26, 27, 32, 33, 48, 49, 50, 51, 52. EXTRA CREDIT 46.

**QUIZ #7**