Week 8

Monday March 19 Class 19:

**Introduction to Linear Transformations.** We begin to examine a graphical interpretation for the matrix operations we have been looking at.

Reading:

Poole, Section 3.6

Homework #17: (due in Class 20)

Poole, Section 3.6: 1, 2, 3, 6, 7, 15, 17, 19. EXTRA CREDIT 28

QUIZ #6 DUE

Wednesday March 21 Class 20:

**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 21)

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

Friday March 23 Class 21:

**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 22)

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

QUIZ #7

TERM PROJECT PROPOSAL DUE TODAY