Week 9

Monday March 24 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.

**DUE in Class 20:** HW #17 (Section 3.6: 1, 2, 3, 6, 7, 15, 17, 19. EXTRA CREDIT 28) and HW #18 (Chapter 3 Review: 1, 11, 13, 14, 15, 18. EXTRA CREDIT 19.)

Wednesday March 26 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.

Friday March 28 Class 22:

**MORE Eigenvalues and Eigenvectors.** We will expand our knowledge to include eigenvalues and eigenvectors of $n \times n$ matrices.

Reading:

Poole, Section 4.3

Homework #21: (due in Class 24)

Poole, Section 4.3: 4, 5, 10, 15, 16, 17, 18, 20, 21, 23, 33. EXTRA CREDIT 34, 36, 38.

Quiz #7