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