Linear Systems

Week 9

Monday March 26 *Class 22*:

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

Reading:

Poole, Section 4.2

Homework #20: (due in *Class 23*)

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

QUIZ #7 DUE

Wednesday March 28 *Class 23*:

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.

Friday March 30 *Class 24*:

Diagonalization. We will learn how to exponentiate a matrix by factoring it as a product of matrices where one of them is diagonal.

Reading:

Poole, Section 4.4

Homework #22: (due in *Class 24*)

Poole, Section 4.4: **2**,5,6, **9, 10, 16,18**,21,22,24,25. EXTRA CREDIT 23.

Quiz #8