Linear Systems

Week 7

Monday March 6 *Class 17*:

Basis and Dimension. We continue to see how linear independence, rank, subspaces, dimension and span all inter-connect with each other.

Reading:

Poole, Section 3.5

Homework #16: (due in *Class 18*)

Poole, Section 3.5: **17, 18**, 21, 24, 39, **40, 41**, 42. EXTRA CREDIT 44, 50.

Wednesday March 8 *Class 18*:

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

Reading:

Poole, Section 3.6

Homework #17: (due in *Class 19*)

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

Friday March 10 *Class 19*:

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

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