
Linear Systems

Math 214 Spring 2007
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Fowler 110 MWF 2:30pm - 3:25pm
<http://faculty.oxy.edu/ron/math/214/07/>

Week 7

Monday March 5 *Class 16:*

Subspaces. We shall introduce the concept of vector spaces and subspaces in a rather formal way.

Reading:

Poole, Section 3.5 and Section 6.1

Homework #15: (due in *Class 16*)

Poole, Section 3.5, 1,3,4,5,**6,7,9,11,12**. EXTRA CREDIT 10.

Wednesday March 7 *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.

Friday March 9 *Class 18:*

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 19*)

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

Quiz #6