
Linear Systems

Math 214 Spring 2006
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Fowler 307 MWF 2:30pm - 3:25pm
<http://faculty.oxy.edu/ron/math/214/06/>

Monday January 23 *Class 1:*

Introduction to Vectors and Matrices. Definition of **Linear Combination** of vectors.

Reading:

Poole, Section 1.1

Homework #1: (due in *Class 2*)

Poole, *Section 1.1* # 1d, 2d, 3c, 4c, 5a, 6, 9, **11, 15, 17, 20**; *EXTRA CREDIT*
#14

Wednesday January 25 *Class 2:*

We will consider the graphical interpretation of algebraic operations on vectors (i.e. vector addition, vector subtraction, scalar multiplication). We will also introduce the concept of projection of a vector onto another vector.

Reading:

Poole, Section 1.2

Homework #2: (due in *Class 3*)

Poole, *Section 1.2* # **2, 5, 11, 17, 19, 25, 44, 46, 47, 52**

Friday January 27 *Class 3:*

We will consider projections in more depth and examine ways to think about algebraically defining lines using vectors.

Reading:

Poole, Section 1.3

Homework #3: (due in *Class 4*)

Poole, *Section 1.2:* #31, 41, 57, **62, 63, 64**
QUIZ #1