
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/>

Week 3

Monday February 6 *Class 7:*

Reduced Row Echelon Form and Rank. We will discuss the reduced row echelon form of a matrix, sometimes denoted $\text{rref}(A)$, and introduce the important concept of rank of a matrix.

Reading:

Poole, Section 2.2

Homework #7: (due in *Class 8*)

Poole, Section 2.2: 1, 2, 3, 4, 5, 6, 7, 8, **22, 23, 26**, 27, 28, 29, 36, **43**. EXTRA CREDIT # 47.

QUIZ #2 DUE

Wednesday February 8 *Class 8:*

Linear Independence, linear dependence and span.

Reading:

Poole, Section 2.3

Homework #8: (due in *Class 9*)

Poole, Section 2.3: # 1, **2, 3**, 4, 13, 14, **25, 26**. EXTRA CREDIT: 43.

Friday February 10 *Class 9:*

Applications of Linear Systems. Lots of examples of situations where linear systems can occur.

Reading:

Poole, Section 2.4

Homework #9: (due in *Class 10*)

Poole, Section 2.4 4, **11, 12**, 31, 32, 39, **40, 41**, 46. EXTRA CREDIT 47.

QUIZ #3