Linear Systems

Math 214 Spring 2007 © 2007 Ron Buckmire

Fowler 307 MWF 2:30pm - 3:25pm http://faculty.oxy.edu/ron/math/214/07/

Week 3

Monday February 6 Class 6:

Direct Methods of Solution of Linear Systems. Introduction to Gasussian Elimination.

Reading:

Poole, Section 2.1

Homework #6: (due in Class 7)

Poole, Section 2.1 # 1, 3, **10, 11**, 13, 15, 17, 20, 23, 28, 29, 32, 34, **35, 44 QUIZ** #**2 DUE**

Wednesday February 8 Class 7:

Reduced Row Echelon Form and Rank. We will discuss the reduced row echelon form of a matrix, sometimes denoted 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.

Friday February 10 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.

Quiz # 3