
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 10

Monday April 2 *Class 25:*

Computing Eigenvalues. Eigenvalues are cool. We'll learn a numerical technique for computing the eigenvalues of a matrix iteratively.

Reading:

Poole, Section 4.5

Homework #23: (due in *Class 26*)

Poole, Section 4.5 : 3,4,5,6,10,13,15, 21, 25,47, 54. EXTRA CREDIT 45

QUIZ #8 DUE

Wednesday April 4 *Class 26:*

Orthonormality. We will revisit orthogonality, norms and projections and introduce a class of matrices known as *orthonormal*.

Reading:

Poole, Section 5.1

Homework #24: (due in *Class 27*)

Poole, Section 5.1: 3,4,5,6,8,9,12,13,16,17,30,31. EXTRA CREDIT 28, 33.

Friday April 6 *Class 27:*

Orthogonal Complements. We will learn about an incredibly important feature of vectors and orthogonal vector spaces.

Reading:

Poole, Section 5.2

Homework #25: (due in *Class 28*)

Poole, Section 5.2: 2,3,4,5,6,7,12,15,16,17,19,20,21. EXTRA CREDIT 29.

QUIZ #9