
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 10

Monday April 3 *Class 25:*

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 26*)

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

Quiz 8 and BONUS QUIZ Due

Wednesday April 5 *Class 26:*

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 26*)

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

Friday April 7 *Class 25:*

Gram-Schmidt Orthogonalization. We shall learn about the famous Gram-Schmidt process to generate an orthonormal basis for a vector space.

Reading:

Poole, Section 5.3

Homework #26: (due in *Class 27*)

Poole, Section 5.3 : 1,**2,3**,4,**6,11,13**, 17. EXTRA CREDIT 18.

QUIZ #9