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# 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/>

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## Week 11

**Monday April 10** *Class 28:*

**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 DUE**

**Wednesday April 12** *Class 29:*

**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 29*)

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

**QUIZ #10**

**Friday April 14 :**

No class! WORK ON TERM PROJECTS!