

---

# 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 8

**Monday March 19** *Class 19:*

**Introduction to Linear Transformations.** We begin to examine a graphical interpretation for the matrix operations we have been looking at.

Reading:

Poole, Section 3.6

Homework #17: (due in *Class 20*)

Poole, Section 3.6: 1,2,3,6,7,15,17,19. EXTRA CREDIT 28

**QUIZ #6 DUE**

**Wednesday March 21** *Class 20:*

**Applications of Linear Algebra.** We will look at one or two very cool applications of linear algebra to graph theory.

Reading:

Poole, Section 3.7

Homework #18: (due in *Class 21*)

Poole, Section 3.7 : 27, 28, 29, 30, 35, 36, 37, 38.

**Friday March 23** *Class 21:*

**Eigenvalues and Eigenvectors.** We will be introduced to the concept of eigenvectors and eigenvalues of a matrix for 2x2 matrices.

Reading:

Poole, Section 4.1

Homework #19: (due in *Class 22*)

Poole, Section 4.1: 3,4,5,6,10,11,16,17,21,22. EXTRA CREDIT 36, 37

**QUIZ #7**

**TERM PROJECT PROPOSAL DUE TODAY**