Week 10

Monday October 31  Class 22:

**Curvilinear Coordinates.** We’ll examine the various curvilinear coordinate systems right before we begin Multiple Integration, where these coordinate transformations play an important role.

**Reading:**

Williamson & Trotter, (Section 6.5)

**Homework #9:**

Williamson & Trotter, page 308: 3, 4, 6, 7, 9, 10, 12  
Extra Credit page 309: 15, Chapter 6 Review: page 310, 10, 21, 29, 30, 36, 37  
Extra Credit page 310: 16, 33, 38

**Quiz #7 DUE**

Wednesday November 2  Class 23:

**Introduction to Multiple Integration.** We’ll learn how to compute iterated (repeated) integrals over rectangular and non-rectangular regions.

**Reading:**

Williamson & Trotter, (Section 7.1)

**Homework #9:**

Williamson & Trotter, page 321: 3,4,5,6,7,11,12, 16, 17, 21  
Extra Credit page 322: 24, 29

Friday November 4  Class 24:

**Multiple Integration.** We’ll continue our study of integration of multivariable functions in 2 and 3 dimensions.

**Reading:**

Williamson & Trotter, (Section 7.2)

**Homework #9:**

Williamson & Trotter, page 332: 1,2,9,11,13  
Extra Credit page 333: 17

Quiz #8