Week 11

Monday November 7 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 #8 DUE

Wednesday November 9 Class 23:

Introduction to Multiple Integration. We’ll learn how to computer 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 11 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 #9