
Multivariable Calculus

Math 212 Fall 2005

©2005 Ron Buckmire

Fowler 307 MWF 9:30pm - 10:25am

<http://faculty.oxy.edu/ron/math/212/05/>

Week 5

Monday September 26 *Class 9:*

Visualizing functions of several independent variables: understanding surface plots, contour plots, level sets.

Reading:

Williamson & Trotter, (Section 4.2)

Homework #4:

Williamson & Trotter, page 192: # 1, 4, 9, 10, 18

QUIZ #3 DUE

Wednesday September 28 *Class 10:*

Partial Derivatives. We'll learn how to take (partial) derivatives of functions of several independent variables.

Reading:

Williamson & Trotter, (Section 4.3)

Homework #4:

Williamson & Trotter, page 203: 3, 9, 12, 22, 25, 31, 34, 37;

Extra Credit page 204: # 38, 39

Friday September 30 *Class 11:*

Application of Partial Derivatives. We'll learn how to take derivatives of parametrized surfaces and find the equation of tangent planes to a surface.

Reading:

Williamson & Trotter, (Section 4.4)

Homework #5:

Williamson & Trotter, page 210: # 4, 11, 17, 18, 23; page 214: 3, 17, 21, 24

QUIZ #4