

Math2210 Midterm 2 Review Problems

Kelly MacArthur

The exam covers sections 11.9, and 12.1-12.8. You will NOT need a calculator for this exam. You can bring one 8.5x11 inch sheet of paper of notes (on both sides, if you want) to use as a reference. No electronics of any sort allowed on the exam.

Topics

- Cylindrical/Spherical coordinates and conversions
- Functions of 2 (or more) variables
 - Level curves
 - Evaluating
 - Domain
 - Continuity
 - Limits
 - Partial Derivatives
 - Gradient
 - Directional Derivatives
 - Tangent Planes
 - Chain Rule
 - Differentials
 - Maxima and minima

Review Questions to do for practice:

Chapter 11 Review (pg 614-615)

Concepts Test Problems #55, 57

Sample Test Problems #39-42 all

Chapter 12 Review (pg 672-673)

Concepts Test Problems #1, 2, 4, 5, 7, 8, 14, 15

Sample Test Problems #1-21 all, 23, 26, 27