

Math2210 Midterm 2 Review Problems
Summer, 2008
Dylan Zwick

Chapter 11 Review (pg 614-615)
Sample Test Problems #30-37 all, 39-41 all

Chapter 12 Review (pg 672-673)
Concepts Test Problems #1, 2, 4, 5, 7, 8, 14
Sample Test Problems #1-21 all, 23, 25, 26, 27

The exam covers sections 11.8, 11.9 and 12.1-12.8. You will NOT need a calculator for this exam.

You can bring one 8.5 x 11 inch piece of paper of notes (on both sides, if you want) to use as a reference.

Topics

- Quadric Surfaces
- Convert to/from Cartesian/Cylindrical/Spherical coordinates
- Functions of 2 (or more) variables
 - Level curves
 - Evaluating
 - Domain
 - Continuity
 - Limits
 - Partial Derivatives
 - Gradient
 - Directional Derivatives
 - Tangent Planes
 - Chain Rule
 - Differentials
 - Max/Min/Saddle points