Math2210 Midterm 2 Review Problems
Summer, 2009
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Chapter 11 Review (pg 614-615)
    Sample Test Problems #30-41 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

The exam covers sections 11.8, 11.9 and 12.1-12.7.   You will NOT need a calculator for this exam.

You can bring one 4 x 6 inch note card 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