Math2210 Midterm 2 Review Problems
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The exam covers sections 12.1-12.9, 13.1-13.2.   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

- 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
  - Lagrange Multipliers
- Double Integrals
  - Over rectangular regions
  - Iterated (rectangular) integrals

Review Questions to do for practice:

Chapter 12 Review (pg 672-673)
   Concepts Test Problems #1, 2, 4, 5, 6, 7, 8, 9, 13, 14, 15
   Sample Test Problems #1-21 all, 23, 25, 26, 27, 28, 29

Chapter 13 Review (pg 728-729)
   Concepts Test Problems #1-5 all
   Sample Test Problems #1-6 all