Math2210 Midterm 3 Review Problems Kelly MacArthur

Chapter 13 Review (pg 728-729) Concepts Test Problems #1-5 all, 11, 13, 14, 16, 17 Sample Test Problems #1-12 all, 15, 16, 20, 21

Chapter 14 Review (pg 773-774) Concepts Test Problems #2 Sample Test Problems #1-5 all

The exam covers sections 13.3-13.4, 13.6-13.8, 14.1 and 14.2. 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.

<u>Topics</u>

- Double Integrals
 - Cartesian coordinates
 - Polar coordinates
 - o Area
- Triple Integrals
 - Cartesian coordinates
 - Cylindrical coordinates
 - Spherical coordinates
 - o change of variables
- Volume
- Surface Area
- Vector fields
 - \circ divergence
 - o curl
- Line Integrals