

Math2210 Midterm 1 Review Problems
Kelly MacArthur

Chapter 10 Review (pg 553)
Sample Test Problems #25-32 all

Chapter 11 Review (pg 613-615)
Concepts Test Problems #1-9 all, 12-16 all, 20-24 all, 26, 27, 28, 40,
51, 55, 57
Sample Test Problems #1-19 all, 21, 25-27 all, 30-44 all

The exam covers sections 10.4, 11.1-11.6, 11.8 and 11.9. You will NOT need a calculator for this exam, nor will one be allowed.

You can bring a 8.5x11 inch sheet of paper notes (on both sides, if you want) to use as a reference.

Topics:

- Parametric Equations of Curves
- Vectors
 - arithmetic of vectors
 - Dot product
 - projection of one vector onto another vector
 - cross product
- Planes in 3-d
 - distance from point to plane
 - equations of planes
- Vector-valued functions
- Lines and tangent lines in 3-d
- Quadric Surfaces
- Cylindrical/Spherical Coordinates and conversions