Math1210 Midterm 3 Review Problems Summer, 2009 Dylan Zwick

Chapter 2 Review Concepts Test Problems (pg 148) # 26, 36 Sample Test Problems (pg 149) # 43, 44

Chapter 3 Review (Concepts Test) pg 209-210 #4 - 12 all, 15, 17, 19, 21, 22, 24, 27, 36, 38, 40, 41, 42

Chapter 3 Review (Sample Test Problems) pg 210-213 #21-37 odd, 40-43 all, 45, 49, 50, 53-73 odd

Chapter 4 Review (Concepts Test) pg 270-271 #1-3 all, 8, 9

Chapter 4 Review (Sample Test Problems) pg 272 #18-21 all, 23, 24, 25, 29

The test covers sections 2.9, 3.1-3.6, 3.8, 3.9, 4.1, 4.2.

You can bring one standard sized page of notes, front and back. You may also bring and use a calculator.

Topics:

--Analyze graph

- vertical and horizontal asymptotes
- increasing/decreasing (first derivative sign line)
- concavity (second derivative sign line)
- min/max points
- inflection points
- sketch graphs
- --Optimization Problems

--Mean Value Theorem for Derivatives

--Antiderivatives

--Solve Differential Equations

--Special Sum Formulas/Area

--Definite Integration