# 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

