

# Math1210 Midterm 2 Review Problems

## Kelly MacArthur

### Chapter 2 Review

Concepts Test Problems (pg 148) #16, 18, 23, 26, 27, 28, 31, 32, 36

Sample Test Problems (pg 148-149) #13-29 odd, 35-41 all, 42-44 all, 46

### Chapter 3 Review

Sample Test Problems (pg 210-211) #1-21 odd

I would also recommend you look over your quizzes that cover this material and redo those problems, as well as look over the notes from class.

The test covers sections 2.4-2.9, and 3.1-3.3. No calculators are allowed for this exam.

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

### Topics Covered:

#### --Derivatives

- Trigonometric functions
- Chain Rule
- Implicit Differentiation
- Higher Order Derivatives
- Related Rates

#### --Differentials/Approximations

#### --Analyzing graphs

- Critical Points (end, stationary and singular points)
- Inflection Points
- First derivative and second derivative sign lines
- sketch graph