

# MATH:113, Recitations 304 and 305

March 6<sup>th</sup> Lesson Plan

Our goals for this class period are:

- (i) revisiting the power, product, and quotient rules;
- (ii) practicing the chain rule;
- (iii) getting students comfortable with communicating their solutions to others;
- (iv) recalling trigonometric identities and trigonometric derivatives;
- (v) having students complete a midterm self-evaluation.

As usual, we'll split the class into chunks: first, we'll give the students a 10-minute period to complete the self-evaluation on Blackboard. Then we'll do a "find-the-mistake" warm-up, then jump into problem sets.

<b>10 minutes</b>	Students should complete the self-evaluation on Blackboard. It's designed to gauge how they feel their learning style matches up with the course's organization, their (un)comfortability with the material, what differences they'd like to see, etc. This should be accompanied by a restatement of the course objectives, policies, principles, etc.
<b>10 minutes</b>	Definitions and find-the-mistake warm-up: there will be $\sim 10$ mistakes in a derivative calculation, and the students will be tasked (within their teams) with finding them. "Bonus" points awarded to each team which solves the derivative correctly!
<b>30 minutes</b>	Each group is given a "challenge" problem to solve and present. After 15 minutes, instructors start circling the room, having students present their solutions as though they're giving a talk to an audience somewhat but not totally familiar with the concepts involved. If students aren't presenting, they should be working on additional problems provided, including the proof of the product rule on the reverse of the worksheet.