## Calculus 2302A - Intermediate Calculus I Fall 2013Homework 10

Due date: Wednesday November 27, in class.

## Guidelines.

- Group work is allowed and in fact encouraged.
- However, you may **not** look at other students' solutions. You must write **your own** solutions. Strikingly similar solutions will be flagged as suspicious.
- Please write the names of people with whom you have discussed the homework. Some similarity will then be accepted.
- Please show your work. No credit for answers without justification.

**Problem 1.** Show the sum rule for differentiability: If two functions f and g are differentiable at  $(x_0, y_0)$ , then their sum f + g is differentiable at  $(x_0, y_0)$ .

Other problems. Taken from the textbook.

 $\S 14.5 \# 2, 8, 16, 32.$ 

Total: five problems.