## Calculus 2302A - Intermediate Calculus I <br> Fall 2013 <br> Homework 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 $\left(x_{0}, y_{0}\right)$, then their sum $f+g$ is differentiable at $\left(x_{0}, y_{0}\right)$.

Other problems. Taken from the textbook.
§14.5 \# 2, 8, 16, 32.
Total: five problems.

