## Main Exercises Week 10

## MATH 130: Calculus I, Sections 2 and 3

Your Name (Print): $\qquad$

Follow the general guidelines for the Main Exercises assignments (the salmon colored handout). Be sure to staple together your pages if you have more than one, and include your name and which section of calculus you are in at the top. Neatness is appreciated and makes a good first impression!!!

Due: at the beginning of class on Friday, November 1st
Remember: Your write-up should be your own. You may discuss these problems with others, but you should be alone when you write them up, using only outlines of any group or TA discussions.

1. Find the derivatives of the following functions. Simplify your answers by eliminating negative exponents and fractions within fractions, and cancelling where clearly possible.
(a) $f(x)=\log _{8}(\arcsin (7 x))+\arctan \left(e^{x^{6}}\right)$
(b) $y=(\ln x)^{\sec x}$
