## Main Exercises Week 8

MATH 131: Calculus II	Section 2	Your Name (Print):	
MITTILL 191. Calculus II	, Decoron 2	10ui ivaine (1 iiii)	

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 at the top. Neatness is appreciated, makes a good first impression, and can earn you a bonus point!!!

Due: at the beginning of class on Monday, October 15, 2018

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 Intern discussions. EXPLAIN and SHOW YOUR WORK!!! Final answers will not receive full credit without supportive explanations. You may use your own paper on which to write these up.

- 1. Find the length of the curve  $y = \frac{1}{2}(e^x + e^{-x})$  on the interval  $[-\ln 2, \ln 2]$ .
- 2. Find the surface area generated by rotating  $y = \sqrt{6x+8}$  on the interval [0,7] about the x-axis.