

## Main Exercises Week 12

MATH 131: Calculus II, Section 2

Your Name (Print): \_\_\_\_\_

**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, November 12, 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. **If you use  $u$ -substitution, SHOW IT, no matter how small; do not just do it in your head.**

1. Evaluate  $\int_0^4 \frac{\ln x}{\sqrt{x}} dx$ . Be sure to show detailed and organized work, and not skip steps.

2. Evaluate  $\int \cos(\ln x) dx$ . Be sure to show detailed and organized work, and not skip steps.