

## Main Exercises Week 11

MATH 131: Calculus II, Sections 2 and 3

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. Be **NEAT** and **SHOW YOUR WORK!!!**

**Due:** at the beginning of class on Friday, November 13th

**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. Be sure to show your work! How you get there is more important than the final answer. Make sure you read the complete question with all the directions and hints before starting a problem. **If you use  $u$ -substitution, SHOW IT, no matter how small; do not just do it in your head.**

**Do NOT use the internet to do your homework!!!** This is your opportunity to LEARN it so that you know it for the next exam...and, more importantly, for life!

1. Evaluate  $\int \frac{11x^3 + 31x^2 - 137x - 36}{(x-2)^2(x+5)^2} dx$ . Be sure to show detailed and organized work, and not skip steps.

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