Main Exercises Week 10

MATH 131: Calculus II, Section 1   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 and makes a good first impression!!!

Due: at the beginning of class on Wednesday, April 2nd

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/TA 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.

1. Do Exercise 46 from Section 7.3 in the text (page 473). Be sure to show detailed work and not skip steps.

2. Evaluate $\int \dfrac{x}{\sqrt{x^2 - 4x}}\,dx$. Be sure to show detailed work (including a sketch!) and not skip steps.

3. Evaluate $\int \dfrac{-2x^3 - 20x^2 + 94x + 127}{(x+2)^2(x-3)^2}\,dx$. Be sure to show detailed work and not skip steps.