

Main Exercises Week 3

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, February 5th

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.

1. Do Problem 28 from Section 5.2 in the text (page 332). Remember that this asks you to use geometry to solve it (directions on page 331). Use the ideas we discussed in class last Friday.

2. Use the definition of the definite integral (remember that when we say this we will always mean with right Riemann sums unless specifically requested to do it differently) to evaluate $\int_1^6 (7x^2 + 8)dx$.

3. Do Problem 42 from Section 5.2 in the text (page 332). Read the directions carefully, and think about what the absolute value of the function means geometrically.