

Section 6.2: Regions Between Curves

MATH 131: Calculus II

Your Name (Print): _____

Due: Friday, February 14 (Happy Valentine's Day!), 2020 at 1:30pm

After reading Section 6.2 (pages 416-420 in the text), respond to the following questions **on this handout**. Be sure to staple your pages together before turning it in if they are not double sided. **You must answer all parts to all questions to earn full credit!!! Also, use FULL SENTENCES to answer questions that require words.** See the salmon homework guidelines handout for details. You are encouraged to take additional notes wherever you are keeping your class notes.

Response Section

1. State the definition of area of a region between two curves.
2. How is the process of finding the formula for the area between two curves (shown on page 416) that results in the definition on page 417 similar to finding the area under a curve as we did in Section 5.2? How is it different?
3. Example 2 on pages 417-418 is a little more complicated than Example 1 on page 417. What makes it so? Explain how setting up the solution is different.

4. Why would we want to integrate with respect to y rather than with respect to x ? Give an example, different from those in the text, to assist in explaining your reasoning.

Questions/Exercise Section

5. Write down **at least two questions** you have on the reading. OR if you have NO questions, do exercise 28 in Section 6.2 (page 422). Be sure to show your work for full credit! Draw the diagram and illustrate an estimating rectangle (or two!) in your diagram. See the salmon homework guidelines handout for details.

Reflection Section

6. Write **two or three** sentences reflecting on the progress of your work so far in the course. See the salmon homework guidelines handout for details.

Time Section

7. How much time did you spend on this reading assignment? _____