

## Section 6.3: Volume by Slicing

MATH 131: Calculus II

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

**Due:** Wednesday, February 19, 2020 at 1:30pm

After reading Section 6.3 (pages 425-434 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 the General Slicing Method.
2. Draw Figure 6.23 AND show how each part of the integral in the definition above is connected to this drawing.
3. State the definition of the Disk Method about the  $x$ -axis.
4. Why is the Disk Method a special case of the General Slicing Method?

5. State the definition of the Washer Method about the  $x$ -axis.

6. When would we use the Washer Method? Do we really need the Washer Method? Why or why not?

### Questions/Exercise Section

7. Write down at least two questions you have on the reading. OR if you have NO questions, do exercise 12 in Section 6.3 (page 435). Be sure to show your work for full credit! See the salmon homework guidelines handout for details.

### Reflection Section

8. 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

9. How much time did you spend on this reading assignment? \_\_\_\_\_