

Section 5.4: Working with Integrals

MATH 131: Calculus II

Your Name (Print): _____

Due: Wednesday, February 5, 2020 at 1:30pm

After reading Section 5.4 (pages 381-385 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 definitions of even and odd functions (this should be review).
2. State Theorem 5.4: Integrals of Even and Odd Functions.
3. Describe in your own words why this theorem makes sense. Diagrams would be helpful to assist in your explanation.

4. State the definition of the average value of a function. Then copy Figure 5.54 to illustrate the geometrical interpretation of this definition.

5. State Theorem 5.5: Mean Value Theorem for Integrals.

Questions/Exercise Section

6. Write down at least two questions you have on the reading. OR if you have NO questions, do exercise 17 in Section 5.4 (page 385). Be sure to **follow the directions** and show all steps for full credit! See the salmon homework guidelines handout for details.

Reflection Section

7. 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

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