

Sections 2.1-2.2: Ideas and Definitions of Limits

MATH 130: Calculus I

Section _____

Name (Print): _____

Due: Monday, January 28, 2019 at the beginning of class

After reading Sections 2.1 and 2.2 (pages 56-67 in the text), respond to the following questions **on this handout**. Be sure to staple your pages together before turning it in. **You must answer all parts to all questions to earn full credit!!!** See the salmon homework guidelines handout for details. You are encouraged to take additional notes wherever you are keeping your class notes. This section should all be review for you!!!

Response Section

1. Draw the diagram in Figure 2.3, including all the labels.
2. How is instantaneous velocity calculated? Use full sentences to answer this question.
3. What is a tangent line? Check out the side bar comment on page 59 as one of your resources for answering this question. Use full sentences to answer this question.

4. Write down the definition of the limit of a function. You SHOULD copy this directly from the book!

5. Write down the statement of Theorem 2.1.

6. What pitfalls are we warned about in Section 2.2, Example 5, both in relation to graphing utilities and in relation to tables? Explain each.

Questions/Overview Section

7. Write down at least two questions you have on the reading. OR if you have NO questions, do exercise 4 in Section 1.4 (page 67). For a full solution of exercise 4, include the graph and use arrows as in Figures 2.8-2.10 to show how pars b and d are solved. See the salmon homework guidelines handout for details.

Reflection Section

8. Write two or three sentences reflecting on the process of your recent work in the course. See the salmon homework guidelines handout for details.

Time Section

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