

Section 6.1: Velocity and Net Change

MATH 131: Calculus II

Your Name (Print): _____

Due: Monday, February 10, 2020 at 1:30pm

After reading Section 6.1 (pages 403-410 in the text, including the Chapter Preview!!!), 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 full definitions of position, velocity, displacement and distance.
2. Suppose the velocity of an object moving along a line is positive. Are the values of the object's position, displacement, and distance traveled equal? Explain. Use the definitions you stated above to explain.
3. State Theorem 6.1: Position from Velocity.

4. Suppose $P'(t)$ is the rate of change of the population of zebra mussels in Seneca Lake. What do you get when you integrate $P'(t)$ between times $t = a$ and $t = b$? Explain. (You should have at least one sentence to explain this.)

Questions/Exercise Section

5. Write down **at least two questions** you have on the reading. OR if you have NO questions, do exercise 14 in Section 6.1 (page 411). Be sure to show your work and answer all parts of the question for full credit! 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? _____