Section 10.2: Sequences

MATH 131: Calculus II Your Name (Print): _____

Course Section Number: _____ Due: Wednesday, November 6, 2019 at the beginning of class

After reading Section 10.2 (pages 650-658 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.

Response Section

1. State Theorem 10.1 that compares the limits of sequences and functions.

2. State Theorem 10.2 that lists the limit laws for sequences.

3. State definitions of the terminology for sequences.

4. State the definition of a geometric sequence.

5. (a) State Theorem 10.3 about geometric sequences.

(b) Do Exercise 8 in Section 10.2 on page 659 of our text. Be sure to explain why your claims are true.

6. State Theorem 10.4 about the Squeeze Theorem for Sequences.

7. State Theorem 10.5 about a guarantee for convergence of a sequence.

8. Do Exercise 4 in Section 10.2 on page 659 of our text. Explain why your example works.

Questions/Exercise Section

9. Write down at least two questions you have on the reading. OR if you have NO questions, do exercise 24 in Section 10.2 (page 659). Be sure to show all steps for full credit! See the salmon homework guidelines handout for details.

Reflection Section

10. 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

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