

Chapter 3 (Unit 2) Test

Date: _____

Self-Reflection for Studying for Test

Check off your answer to each question:

| | Yes | Somewhat | No |
|--|-----|----------|----|
| Did you complete all HW? | | | |
| Did you correct any HW errors and complete any missing problems? | | | |
| Did you attend study groups every week? | | | |
| Did you ask questions in your study group on topics? | | | |
| Did you correct any Quiz errors? | | | |

Rate your preparation for each of these topics on a scale of 0 to 5, where 0 is not at all prepared and 5 is well-prepared.

If you are not well-prepared for a topic, identify what can help you prepare for the Test (i.e., your notes, homework, mathkanection, Khan Academy, or other resources)

| Topic | 0 | 1 | 2 | 3 | 4 | 5 | What to do to be better prepared |
|--|----------|----------|----------|----------|----------|----------|---|
| <i>Definition of the derivative, including the Alternate Form of the Derivative</i> I can compute the derivatives of power and trigonometric functions using the limit definition of the derivative. | | | | | | | |
| <i>Differentiability, including sketching f'</i> I can explain the relationship between the continuity and the differentiability of a function. | | | | | | | |
| <i>Basic rules of differentiation, including Product and Quotient Rules</i> I can compute the derivatives of power and trigonometric functions using derivative rules involving sums, products, and quotients. I can interpret the derivative as the instantaneous rate of change of a quantity. I can find higher-order derivatives. | | | | | | | |
| <i>Particle Motion</i> I can describe the connection among position, velocity, and acceleration. I can use derivatives to solve problems involving velocity, speed and acceleration. | | | | | | | |
| <i>Understand the difference between instantaneous and average rate of change</i> I can use derivatives to describe the rate of change at a point, and compare it to average rate of change between two points. | | | | | | | |