

AP Calc Warm Up – 10/01/10

Name: _____

Period: _____

- 1) The distance of a car from a stop sign in meters is described by the function $f(x) = x^3$ where x represents seconds. Find the average velocity of the function over the following intervals:

a. From $x=0$ to $x=2$

b. From $x=2$ to $x=2.5$

From Average to Instantaneous Rates of Change

Name: _____ Date: _____ Period: _____

Concept – Students will know the meaning of instantaneous rate of change and will be able to set up a limit definition of instantaneous rate of change

Watch the animation that Mr. Monte-Sano has set up.

AP Calc – Exit Slip – 10/01/10

Name: _____ Period: _____

- 1) What is the meaning of instantaneous velocity?
- 2) Set up (but do not evaluate) the limit definition of the instantaneous velocity of a ball whose is described by the function $f(x) = x^2 - 4x + 4$ at $x=4$.