

Name: _____

Math 211 Quiz 2

Section: 322 323

Sep 20, 2012

1. (5 pts) Use natural logarithms to solve the equation and simplify your answer.

$$e^{5-x} = \frac{e^2}{10^3}$$

2. (10 pts) Evaluate the following limits.

a. $\lim_{x \rightarrow 1} (2x^2 - 3)(x + 1)^3$

b. $\lim_{x \rightarrow 1} \frac{\sqrt{x} - 1}{x - 1}$

3. (5 pts) The position, in meters, of an object is given by the equation $f(t) = 1 - t^2$, where t is measured in seconds. Find the velocity and the speed of the object after 2 seconds.