KFUPM Mathematics & Statistics

Term 161 MATH 101 Quiz# 7

Date: 5/1/2017 Duration: 18 minutes

Name: ID #: Section:

1. Use Newton's method to find the positive fourth root of 2 by solving the equation $x^4 = 2$. If you start with $x_0 = 1$ to find x_1 and x_2 , then $x_1 - x_2 =$

- 2. Evaluate the following limits (if exist)
 - a. $\lim_{x \to \infty} \left(\frac{x+2}{x-1} \right)^x$

3.	If 1200 m ² of material is used to construct a rectangular box with a square base and an open top, then the largest possible volume of the box is