MATH-241 Fall 2015

Calculus and Analytic Geometry II

Name:

The majority of the credit you receive will be based on the completeness and the clarity of your responses. Show all of your work and justify your solutions as much as possible. This is a 15 minute quiz and has 2 questions, for a total of 10 points

(5 points) 1. Recall the equation of a parabola is $y^2 = 4px$. Find the equation of the parabola with focus at (-4, 0) and directrix at x = 2.

(5 points) 2. Determine if the sequence $\{a_n\}$ defined by $a_n = \frac{n}{n + \frac{1}{n}}$ converges or diverges. If it converges, find the limit.