

Math 124, Fall 2018, Quiz 3

October 16, 2018

Name and Section _____

Evaluate the following limits. Your answer should be a number, DNE, ∞ or $-\infty$. You may have to show one-sided limits to conclude DNE. You can use your calculator to verify your answers but you will be graded on algebra and proper use of limit properties.

1. $\lim_{x \rightarrow 5} \frac{\frac{1}{x} - \frac{1}{5}}{x - 5} =$

2. $\lim_{x \rightarrow \infty} \frac{\sqrt{1 + 8x^6}}{4 - x^3} =$