

Name: _____

Math 135, Quiz #9, April 7, 2014

1. Compute $\lim_{x \rightarrow \infty} \frac{e^x}{x^2 + 4x + 1}$

2. Compute $\lim_{x \rightarrow 0} \frac{\sin(3x)}{\tan(7x)}$.

3. Compute $\lim_{x \rightarrow 0} \frac{\sin^2(5x)}{x + \cos^3(6x)}$.

4. Two positive numbers sum to 12. What is the largest possible value of the square of the first times the second?