

Math 131

Quiz 4 – February 12, 2008

Name _____

1. Calculate the following limits, showing all work:

(a) $\lim_{x \rightarrow \infty} \frac{3x^2 - 1}{x^2 + 9}$

(b) $\lim_{x \rightarrow 3} \frac{1}{x - 3}$

2. Using the limit definition of derivative, calculate $\frac{d}{dx} [x^2 + 2]$.