

Math 2143 - Brief Calculus with Applications

Quiz #12 - 2008.03.24

Name: _____

1. Compute the following limit.

$$\lim_{x \rightarrow 0} \frac{x}{\sqrt{1+3x} - 1}$$

2. Compute the following derivative.

$$\frac{d}{dz} \left(4z^2 + \frac{3z^2 + 1}{4z^3 - \frac{1}{z}} \right)^3$$