

Math 2143 - Brief Calculus with Applications

Quiz #7 - 2008.02.28

Name: _____

1. Compute the following limit.

$$\lim_{t \rightarrow 0} \left(\frac{1}{t\sqrt{1+t}} - \frac{1}{t} \right)$$

2. Find the equation of the tangent line to $f(x) = 3x^3 - 4x^2 + \frac{1}{x} + 2$ at $x = 1$.