

NAME: _____

Math 200 Calculus I (Bueler)

19 March 2008

Quiz #5

20 points total. You have 20 minutes.

1. (5 pts) Differentiate

$$y = \csc \theta (\theta + \cot \theta)$$

2. (5 pts) Differentiate

$$f(x) = e^{\sin x}$$

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3. (5 pts) Find $f'(t)$ if

$$f(t) = \sqrt{t + \sqrt{t + \sqrt{t}}}$$

5. (5 pts) Find an equation of the tangent line to the curve

$$y = \frac{2}{1 + e^{-x}}$$

at the point $(0, 1)$.