Math 180, Quiz 4: Thursday, February 14, 2013

Take fifteen minutes to complete this quiz. Please show all your work, and write your name on the front *and* back of the paper before turning it in.

1. (4 pts) Find f'(x), where $f(x) = \frac{5}{1 + e^{-3x}}$.

2. (5 pts) Find g'(x), where $g(x) = x^5 \cot(x) - 1$.

3. (1 pt) On which intervals is the function $g(x) = \frac{1}{x+6}$ continuous?