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 $f^{\prime}(x)$, where $f(x)=\frac{5}{1+e^{-3 x}}$.
2. (5 pts) Find $g^{\prime}(x)$, where $g(x)=x^{5} \cot (x)-1$.
3. (1 pt) On which intervals is the function $g(x)=\frac{1}{x+6}$ continuous?
