Math 180, Quiz 6: Thursday, March 6, 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. Make sure to show all relevant work.

1. ( 5 pts$)$ Find the equation of the tangent line to the graph of $\sin (x y)=\frac{1}{2}$ at the point $\left(\pi, \frac{1}{6}\right)$.
2. (4 pts) If $g(x)=4-3 x$, find the derivative of $g^{-1}$. (You may do this any way you like.)
3. (1 pt) Consider $f(t)=e^{2 t}$. Find $f^{\prime \prime}(0)$.
