Math 182　　　Quiz 1　　　Name: _____

September 7, 2004

Show all work for credit.

1. Integrate $\displaystyle\int \frac{\sec^2\left(\ln(x)\right)}{x}\, dx$

2. Find the area bounded by $f(x) = \sin\frac{1}{2}x$ and $g(x) = \frac{1}{2}\sin x$ between 0 and π. (Hint: Remember to sketch a graph of the functions).