Math 126 - Quiz 2

Name

1. (5 pts.) Differentiate  $f(x) = x^{\sin x}$ 

2. (5 pts.) Differentiate  $f(x) = \ln (3t e^{-t})$ 

3. (5 pts.) Evaluate the integral

$$\frac{\ln x^2}{x}$$
 dx

4. (5 pts.) Money in a bank account grows continuously at a rate of 10% per year. Suppose \$100 is put into the account in 1970.What equation would you use to determine the amount of money in the account in 1996?