MATH 258 QUIZ SEPTEMBER 11, 2012
NAME:

1. Evaluate the integral $\int e^x \cos(e^x)\, dx$.

2. Differentiate $y = 2^{x^3} + \log_{10}(x^2)$.

3. The number of bacteria in a culture grows according to the equation $P(t) = 10e^{kt}$ where k is a constant and the time t is measured in hours. Find the value of k if the population has doubled after 2 hours.