

Math 226: Quiz**Mar. 16, 1992**

Show your work and circle your final answer.

1. A car buyer borrows \$10,000 from a bank at an interest rate of 9% per year compounded continuously. If the buyer pays back the loan continuously over 4 years, determine how much total interest he pays over the life of the loan.

2. Find an integrating factor for the differential equation

$$(y + e^{y-x}) dx + (1 + xe^{y-x}) dy = 0$$