Math 106 A Winter 2011

Quiz 3

Note: Show all work. Correct answers given without justification will not receive full credit.

Name:
ID #:

Question 1) Use separation of variables to find a solution to the IVP given by \( y' = 2e^{-y} \) with \( y(0) = 1 \).

Question 2) Solve the differential equation \( y' = y \ln|y| \) using separation of variables.
Question 3) Consider the IVP \( y' = y^2 + t \) with \( y(1) = 0 \). Estimate \( y(2) \) using 4 Euler steps.