

Quiz 2

MAC 2302/3305

Fall 2008

Full Name: _____

Score: _____

Show all of your work for full credit.

1. Find the general solution to the ODE:

$$\frac{dy}{dx} = e^{x-y}$$

2. Suppose that \$1200 is invested at 5% per year compounded continuously. Assuming no additional withdrawals or deposits:

(a) How much will be in the account after 10 years?

(b) How long does it take for the account to triple?