

Circle One:

Name: _____

7:45-8:35 (361)

8:50-9:40 (362)

Math222-4, Spring 2007

Quiz #4: 02-20-07

No Calculators.

1. (3 Points) Solve this differential equation explicitly for y :

$$\frac{dy}{dx} = 3x^2 e^{-y}$$

2. (3 Points) Solve this differential equation explicitly for y :

$$x \frac{dy}{dx} + 2y = x^3, \quad x > 0, \quad y(2) = 1.$$