

Math 216 - Quiz 3

February 1, 2012

Name _____

Score _____

Show all work to receive full credit. Supply explanations when necessary.

1. (3 points) Solve: $\frac{dx}{dt} = \frac{t}{xe^{t+2x}}, \quad x(0) = 2$

2. (3 points) Section 2.2, Page 45, Problem #36

3. (3 points) Solve: $\frac{dy}{dx} + \frac{3y}{x} + 2 = 3x, \quad y(1) = 1$

4. (1 point) Section 1.2, Page 14, Problem #28