

Math 207 Quiz #2
April 13, 2010

Name: _____

Show all work and answers on a separate sheet with a box around your final answer. No calculators.

1. Solve the following. Express your answers explicitly if possible.

(a) (5 pts.) $x^4 \frac{dy}{dx} = e^{2x} - 5x^3 y$ with $y(1) = 0$

(b) (5 pts.) $(5t^3 + 2) \frac{dy}{dt} - t^2 \cos^2 y = 0$