

Math 216 - Quiz 6

February 29, 2012

Name _____

Score _____

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

1. (4 points) Find the orthogonal trajectories for the family of curves described by the equation $x^2 + y^2 = 2Cx$.

2. (4 points) Determine the recursive formulas for the Taylor method of order 4 for the initial value problem

$$y' = x^2 + y, \quad y(0) = 0.$$

Then take two steps using stepsize $h = 0.1$.

3. (2 points) Page 139, Problem #12