

QUIZ 3 FOR CALC4 ON FEB. 17, 2015

Name: _____ RUID: _____

Email: _____

1. (4 pt) For the following IVP, obtain a formula for the local truncation error for the Euler method in terms of t and the solution $y(t)$.

$$y' = \sqrt{t + y}, y(1) = 3$$

2. (6 pt) For the following parameterized IVP

$$2y'' - y' - y = 0, y(0) = a$$

find the critical value of a where the behavior of the solution changes.