

QUIZ 3 FOR CALC 4 ON SEPT. 18, 2014

Name(PRINT!): _____ RUID: _____

Email(PRINT!): _____

(1) Find the solution of the following initial value problem IN EXPLICIT FORM

$$y^2(1-x^2)^{1/2}dy = \arcsin x dx, y(0) = 1$$

(2) Can you conclude if the following initial value problem

$$y'(t) = \sqrt{y+t-1}, y(0) = 1$$

has a unique solution on *some* interval around the initial time $t = 0$?