

### Math 3280 Worksheet 3

Group members (2 to 4): \_\_\_\_\_  
Only hand in one sheet per group.

- (1) Does the initial value problem  $\frac{dy}{dt} = 3y^{2/3}$ ,  $y(1) = 1$  have a unique solution? Find a solution and determine the largest interval of  $t$  values on which it is defined.

- (2) Repeat the above problem, but this time with an initial value  $y(1) = 0$ .