Math 3280 Worksheet 16: review

Group members (2 to 4):

(1) Compute the value of y(1) if $\frac{dy}{dx} = 2xy^2$ and y(0) = 2.

- (2) Approximate y(1) from the initial value problem above by using:
 - (a) 1 step of Euler's method
 - (b) 1 step of the Improved Euler Method
 - (c) 2 steps of the Improved Euler Method

Do these seem to be converging to the correct answer?