

## MATH 316D W03

### DD1 Individual Quiz

1. **Keep** but reword to: “Using an Euler’s Method approximation find  $y(.5)$  with the given differential equation  $y' = t$ , using a step size of  $h=0.1$ .” The correct answer is  $\implies -1.0967$ .
2. **Keep** and please make sure the correct answer is  $\implies -.4431$ .
3. **Keep** but correct wording to, “Plot the approximations from question 2 along with the analytic solution to question 2’s equation which is  $y(t) = -\frac{1}{t}$ .” And please make sure the correct answer is, “There is an obvious error between the approximations, but the graphs look similar.”
4. **Keep** the correct answer is  $\implies y(t) = 2e^{t^3}$ .
5. **Keep** and please make sure the correct answered keyed  $\implies$  **28.1 kg**.