Euler's Method I

1. Consider the DE $y' = xy$ with initial value $y(0) = 1$.
   For each use of Euler's method, be sure to set up a *new* table with column headings:

step	x	y	y'	Δy

   The first data row of your table, *step 0*, contains the initial x and y values as well as computed values for y' and Δx.

   (a) Use Euler's method with four steps of size 1 to estimate $y(1)$

   (b) Use Euler's method with four steps of size 0.50 to estimate $y(1)$

   (c) Use Euler's method with four steps of size 0.25 to estimate $y(1)$