## 1. Euler's Method Assignment

The spreadsheet Eulers.xls on the website (and eLearn) is set up to use Euler's method to estimate $y(2)$ for the function $y(x)$ satisfying the differential equation

$$
y^{\prime}+3 y=6 x
$$

with a starting value $(x, y)=(2,2)$ and a step size $h=0.02$.

Modify the spreadsheet to estimate $y(3)$ for $y(x)$ satisfying the equation

$$
y^{\prime}+12 x y=\sqrt{x}
$$

with a starting value of $(x, y)=(1,0)$ and a step size $h=0.1$.

You should submit your spreadsheet to the drop box associated with this assignment on eLearn (Eulers).

