

Name _____

Homework 23
section 11.3

1. (6) Consider the differential equation $\frac{dy}{dx} = x + y$. Complete the table below by using Euler's method with $\Delta x = 0.5$ to estimate $y(3)$ if the solution passes through $(1, 1)$.

x	y	slope	Δy

2. (6) Complete the table below by using Euler's method with 4 steps for $\frac{dy}{dx} = 8xy$ to estimate y when $x = 1$ if the solution passes through $(0, 1)$.

x	y	slope	Δy

