

Section 2.6 - Problem 1--> $y'=2x-3y+1$ , $y(1)=5$ , $\Delta x=.1$						
x	y	y'	*	$\Delta x$	$\approx$	$\Delta y$
1.0000	5.0000	-12.0000	*	0.1000	$\approx$	-1.2000
1.1000	3.8000	-8.2000	*	0.1000	$\approx$	-0.8200
1.2000	2.9800					

data that you must enter  
final answer

Section 2.6 - Problem 1--> $y'=2x-3y+1$ , $y(1)=5$ , $\Delta x=.05$						
x	y	y'	*	$\Delta x$	$\approx$	$\Delta y$
1.0000	5.0000	-12.0000	*	0.0500	$\approx$	-0.6000
1.0500	4.4000	-10.1000	*	0.0500	$\approx$	-0.5050
1.1000	3.8950	-8.4850	*	0.0500	$\approx$	-0.4243
1.1500	3.4708	-7.1123	*	0.0500	$\approx$	-0.3556
1.2000	3.1151					

Section 2.6 - Problem 2--> $y'=x+y^2$ , $y(0)=0$ , $\Delta x=.1$						
x	y	y'	*	$\Delta x$	$\approx$	$\Delta y$
0.0000	0.0000	0.0000	*	0.1000	$\approx$	0.0000
0.1000	0.0000	0.1000	*	0.1000	$\approx$	0.0100
0.2000	0.0100					

Section 2.6 - Problem 2--> $y'=x+y^2$ , $y(0)=0$ , $\Delta x=.05$						
x	y	y'	*	$\Delta x$	$\approx$	$\Delta y$
0.0000	0.0000	0.0000	*	0.0500	$\approx$	0.0000
0.0500	0.0000	0.0500	*	0.0500	$\approx$	0.0025
0.1000	0.0025	0.1000	*	0.0500	$\approx$	0.0050
0.1500	0.0075	0.1501	*	0.0500	$\approx$	0.0075
0.2000	0.0150					