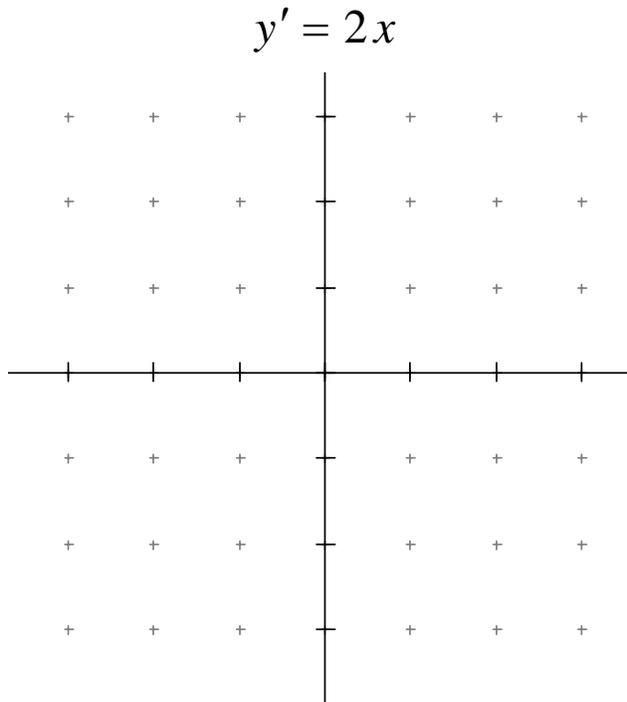


Slope Fields

Name _____

For #1 and #2, given y' , use the table to the right to plot the slope of the curve at the x and y coordinates in the table. Then graph the slopes as line segments on the marked points in the axes.

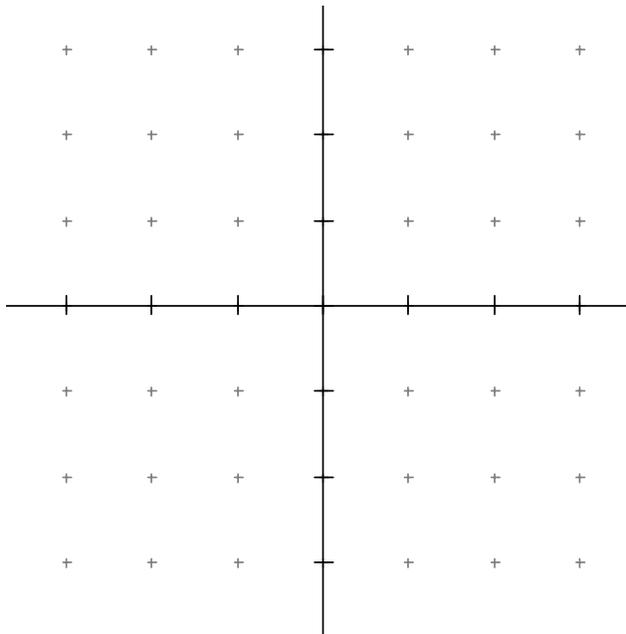
1)



x	y	$y' = 2x$
0	0	
0	1	
0	2	
0	3	
1	0	
1	1	
1	2	
1	3	
2	0	
2	1	
2	2	
2	3	

Sketch an approximate graph of y beginning with the point $(1, -2)$
Does the shape of this graph look familiar to you? Explain.

2) $y' = 2xy$



x	y	$y' = 2xy$
0	0	
0	1	
0	2	
0	3	
1	0	
1	1	
1	2	
1	3	
2	0	
2	1	
2	2	
2	3	

Sketch an approximate graph of y beginning with the point $(0,1)$
 Does the shape of this graph look familiar to you? Explain.

4) Match the slope field with the function that you think it is modeling. Explain your reasoning using the graphs of the two functions.

$y = \ln|x|$ _____

$y = e^x$ _____

