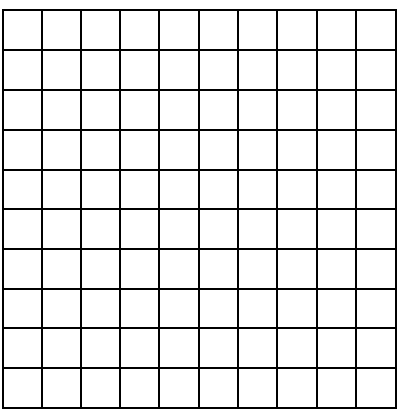


12-1 Graphing Linear Equations Worksheet

Make a table and a graph for each equation.

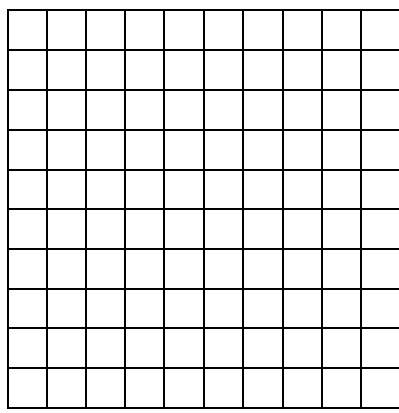
1) $y = 3x - 4$

x	y
-2	
-1	
0	
1	
2	



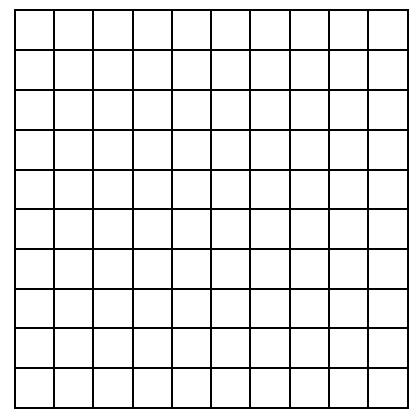
2) $y = \frac{1}{2}x$

x	y
-2	
-1	
0	
1	
2	



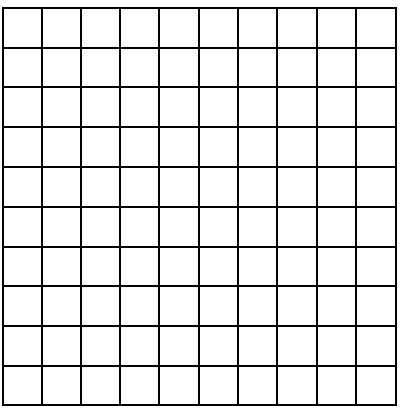
3) $y = x + 1$

x	y
-2	
-1	
0	
1	
2	



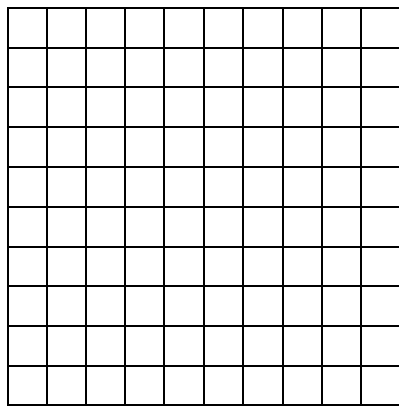
4) $y = -3x$

x	y
-2	
-1	
0	
1	
2	



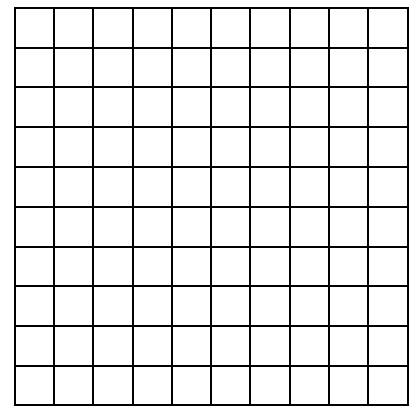
5) $y = \frac{1}{4}x - 1$

x	y
-8	
-4	
0	
4	
8	



6) $y = -5$

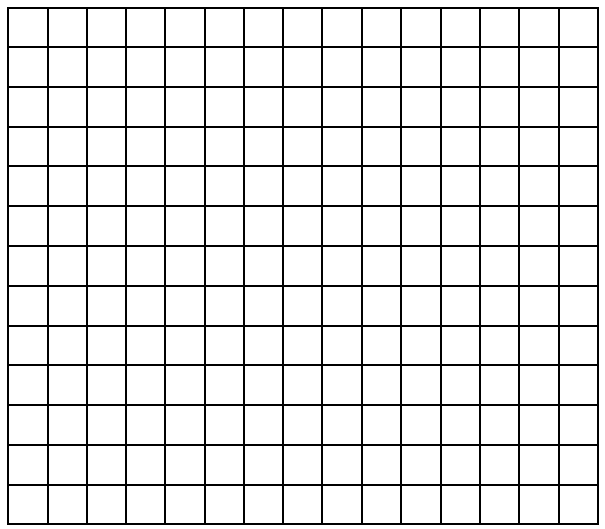
x	y
-2	
-1	
0	
1	
2	



Name _____ Class _____

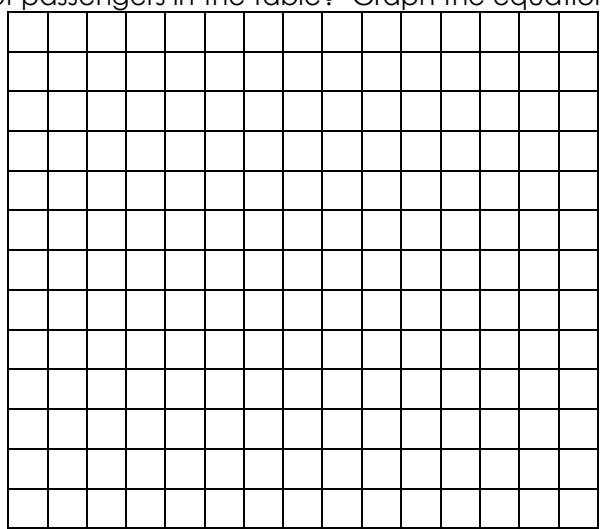
The equation $d = 0.2s$ represents the approximate distance "d" in miles of a thunderstorm where "s" seconds pass between a flash of lightning and the sound of thunder. About how far is the thunderstorm from each student listed in the table? Graph the relationship between the time between lightning and thunder and the distance of the storm from the student.

Student	Time Between Flash and Thunder (s)	Distance (d)
Sandy	5	
Diego	9	
Ted	4	
Cecilia	11	
Melissa	8	



A charter bus service charges \$125 plus \$8.50 for each passenger "p," represented by the equation $C = 8.5p + 125$. What is the charge for the following numbers of passengers in the table? Graph the equation.

Number of Passengers (p)	Charge (C)
50	
100	
150	
200	
250	



Answer the following question in a well-written paragraph. You can use tables and/or graphs to help explain.

How would you prove that the graph of $y = 2x - 1$ is a straight line?
