

Name: _____

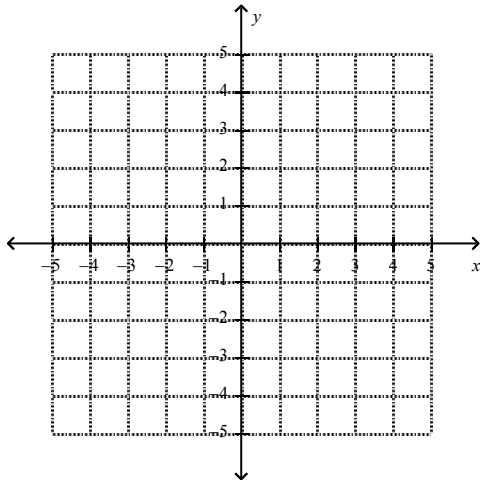
Class: _____

M8-U4: Notes #5 – Graphing Linear Relationships

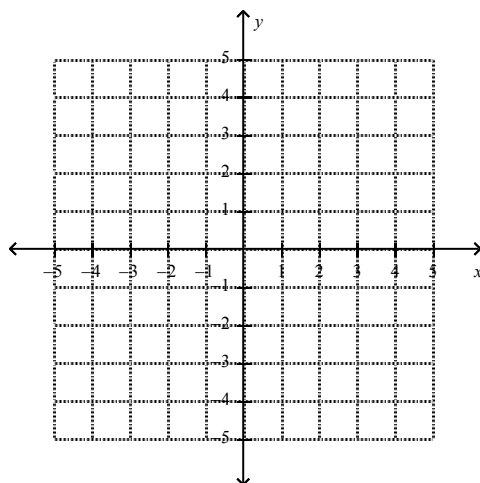
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Warm-Up!

1. For a homework assignment, Sarah must draw a line passing through the points $(-3, -3)$ and $(3, 3)$. Graph Sarah's line on the grid below.

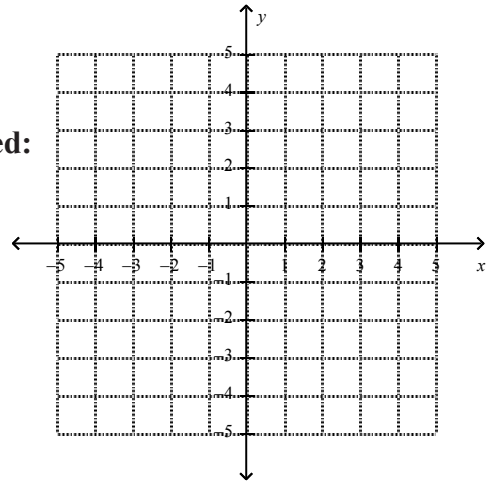


2. Graph a line that goes through the following 2 points: $(-4, 3)$, $(2, -1)$

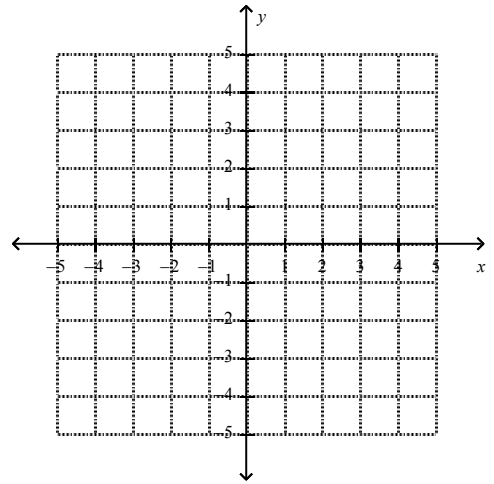


Graph a linear relationship based on information provided:

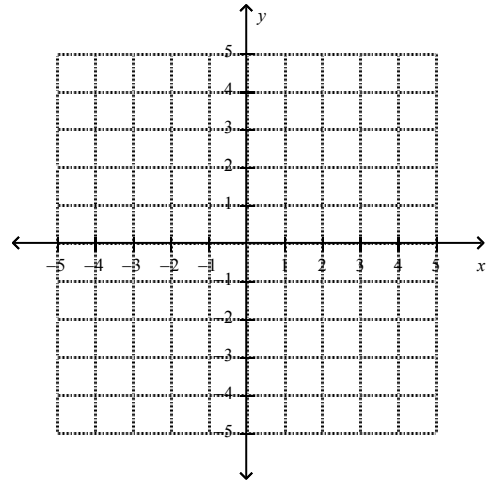
1. Given slope of $\frac{2}{3}$ and the y -intercept is 3.



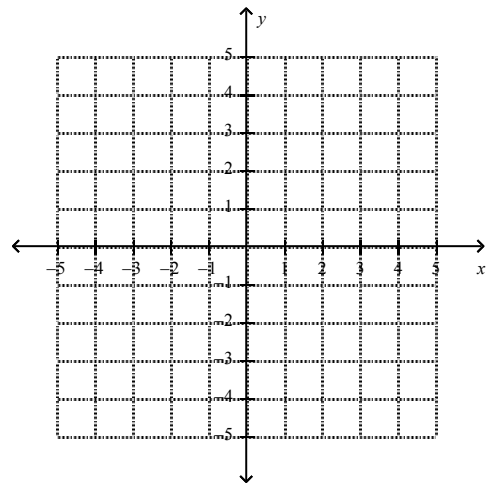
2. Given slope of 0 and the y -intercept is 1.



3. Given $m = -2$ and the y -intercept is (0, 2).

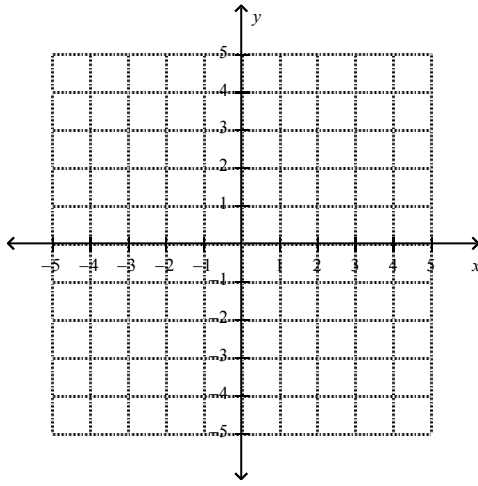


4. Given $m = -\frac{1}{4}$ and the point (0, -1).

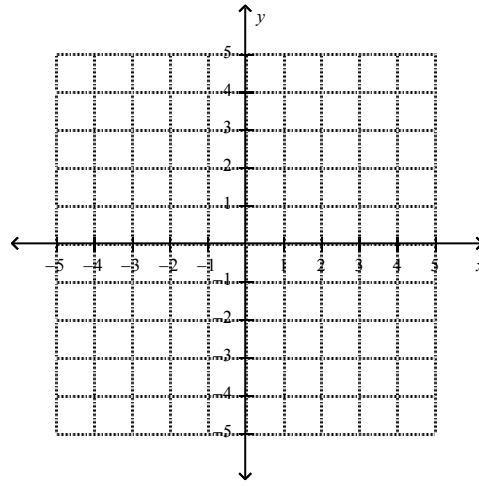


Graph the linear equations: (Hint: identify the slope and y-intercept)

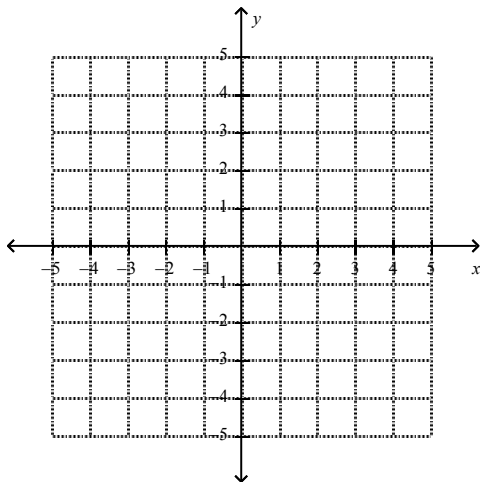
1. Graph: $y = \frac{1}{3}x - 2$.



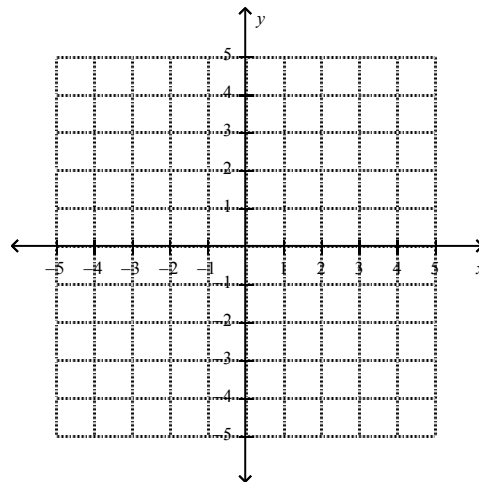
2. Graph: $y = -x + 5$.



3. Graph: $y = -\frac{3}{2}x + 3$



4. $y = 3x - 1$



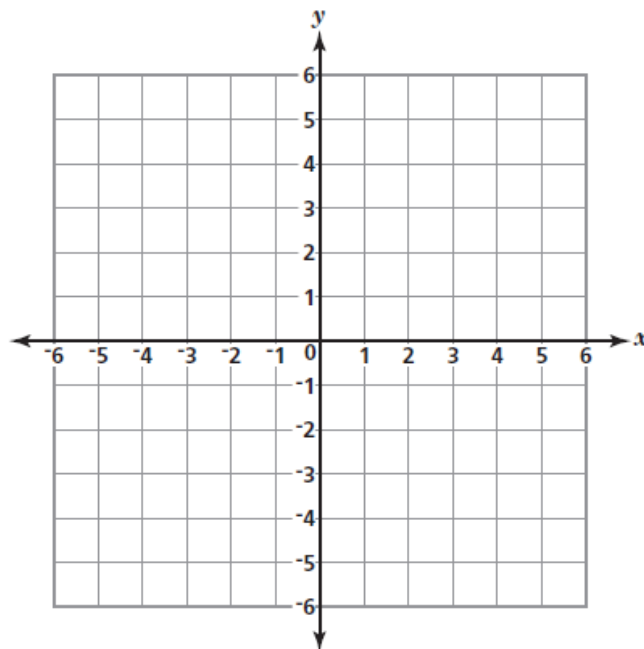
Graphing Equations by Making Tables:

1. Erika is assigned to graph the line of the equation $y = 2x - 3$.

Use Erika's equation to complete the table below for the given values of x .

x	y
-1	
1	
3	

Using the information from the table, graph the line of the equation $y = 2x - 3$ on the coordinate plane below. Be sure to plot all points from the table and draw a line connecting the points.



2. Ken used the function rule below to create a number pattern.

$$y = 2x + 2$$

Complete the table below using Ken's function rule.

x	y
-4	
-2	
0	
1	
3	

On the coordinate plane below, plot the values of x and y and connect the points with a line.

