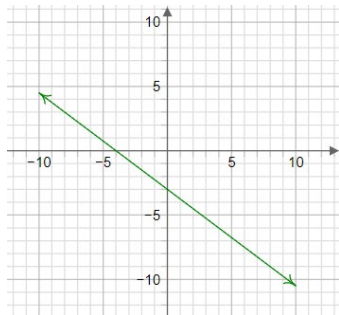


Warmup

1.

Slope=_____

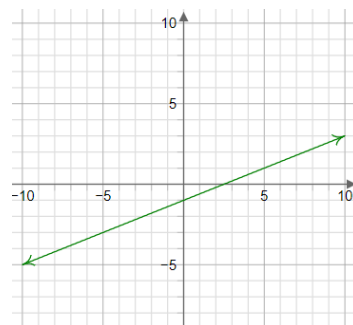
3. Give the slope of the linear equation.



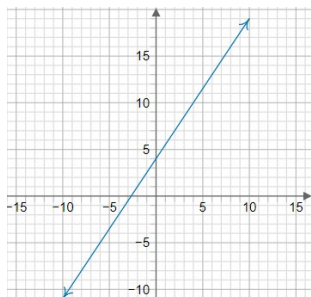
4. Give the equation of the linear equation.

The y-intercept of the line is _____
 The ordered pair of the y-intercept is (____, ____)

The slope is _____

The equation of the line is $y =$ _____

2. Give the ordered pair of the y-intercept.



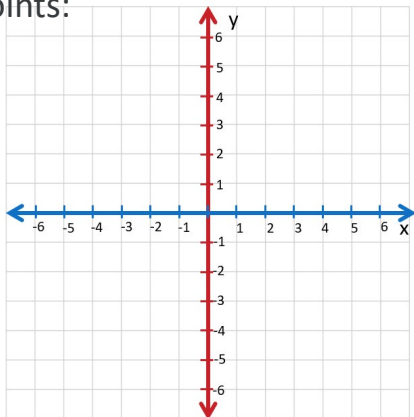
5. Plot the points:

A:(5,-2)

B:(0,3)

C:(-1,4)

D:(-4,0)

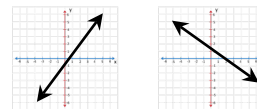


6. A point is defined by an ordered pair (____, ____)

A point on the x-axis will have a 0 for the _____.

A point on the y-axis will have a 0 for the _____.

7. Determine if the slope is positive or negative.

I. Find the y-Intercept from Equations in $y=mx+b$ form $Y = mx + b$ The slope-intercept equation of a linear equationSlope = $m = \frac{\text{Change in } y}{\text{Change in } x}$ $b = \text{y-intercept}$

The ordered pair of the y-intercept is (0, b)

8. Give the ordered pair of the y-intercept.

$$y = \frac{-3}{2}x + 4$$

Give the ordered pair of the y-intercept of the equation
 $y = -2x + 5$

Give the ordered pair of the y-intercept of the linear equation
 $y = \frac{2}{3}x - 3$

9. Give the ordered pair of the y-intercept.

$$y = \frac{2}{7}x - 3$$

II. Determine the Slope of Linear Equations in the form $y = mx + b$

Slope is the ratio of the change in y to the corresponding x -values.

$$\text{Slope} = \frac{\text{change of } y}{\text{change of } x}$$

When the slope is a whole number, change it to a fraction by writing a 1 in the denominator

$$y = -2x + 5$$

$$y = 3x - 6$$

Give slope of the linear equation

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

10. Give the slope of the linear equation.

$$y = \frac{-3}{2}x + 4$$

11. Give the slope of the linear equation.

$$y = \frac{2}{7}x - 3$$

III. Graph Linear Equations in Slope-Intercept form

$Y = mx + b$ is the slope-intercept form of a linear equation, or line.

$$Y = -2x + 1$$

To graph the line:

1. The order pair of the y -intercept is _____, graph it.
2. Use the slope to make another point.

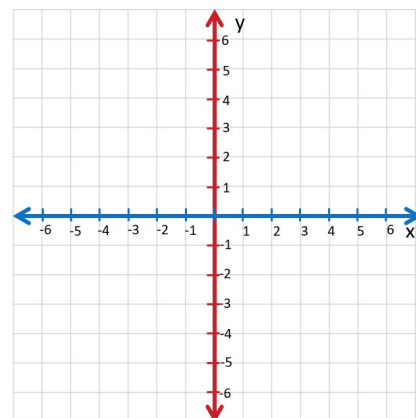
The change in y is _____

Start at the y -intercept, If the slope is positive go up, if the slope is negative, go down.

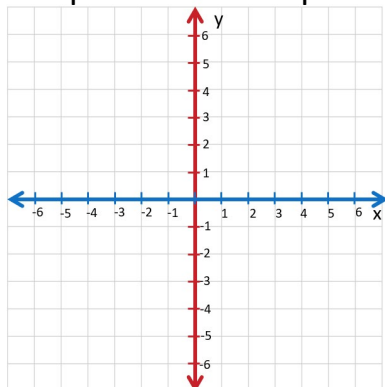
The change in x is _____, go the right

Graph the point

3. Draw a line through the 2 points. (You can use the slope to graph more points)
4. Label the line.



Graph the linear equation $y = \frac{-3}{2}x + 4$



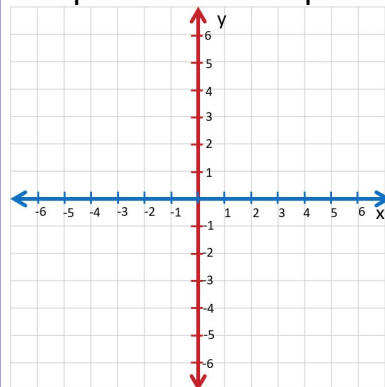
Positive Slope
Increasing



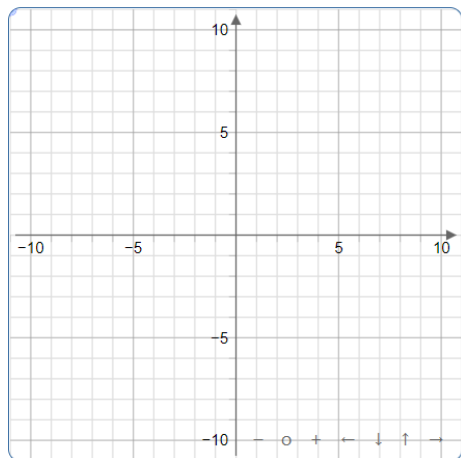
Negative Slope
decreasing



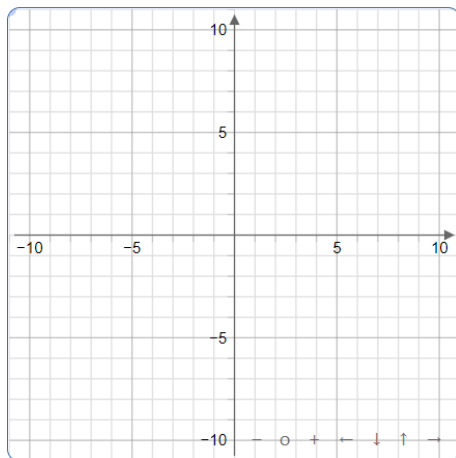
Graph the linear equation $y = \frac{2}{7}x - 3$



12. Graph the linear equation. $Y = -\frac{3}{2}x + 4$



13. Graph the linear equation. $Y = \frac{2}{7}x - 3$



IV. Practice

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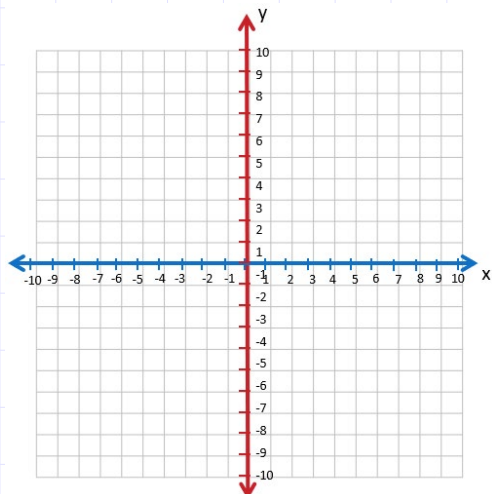
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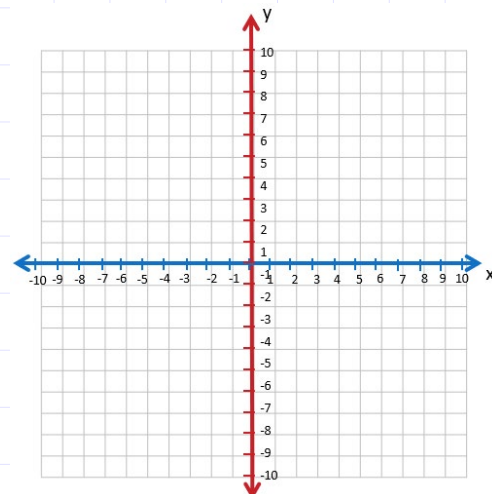
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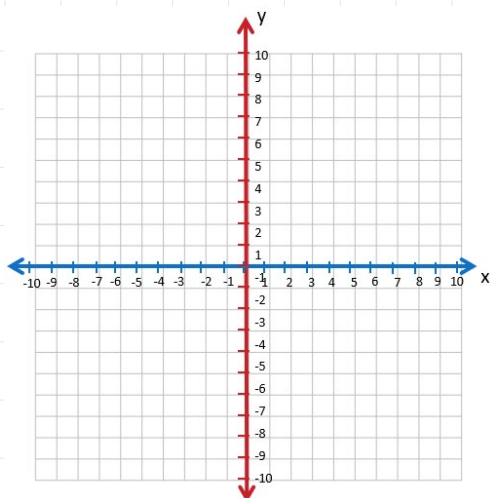
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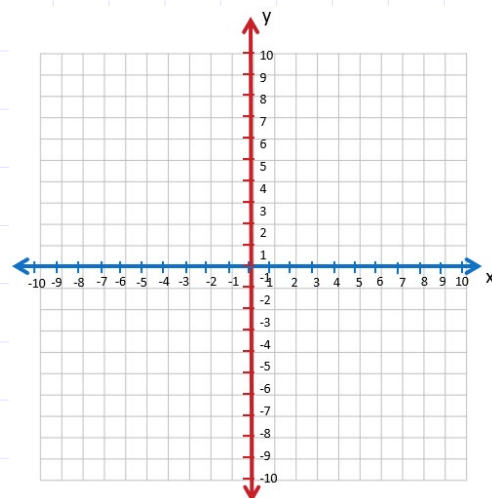
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