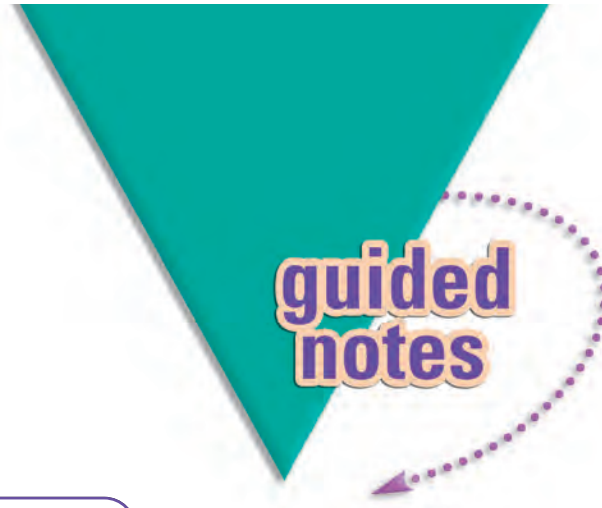


NAME _____

Module 7 Solving Linear Equations and Inequalities of Two Variables

Lesson 2 Graphing Linear Equations of Two Variables



guided notes

Lesson Objectives

- Graph linear equations from a data table.
- Graph linear equations using the intercept method.
- Graph linear equations using the slope-intercept method.

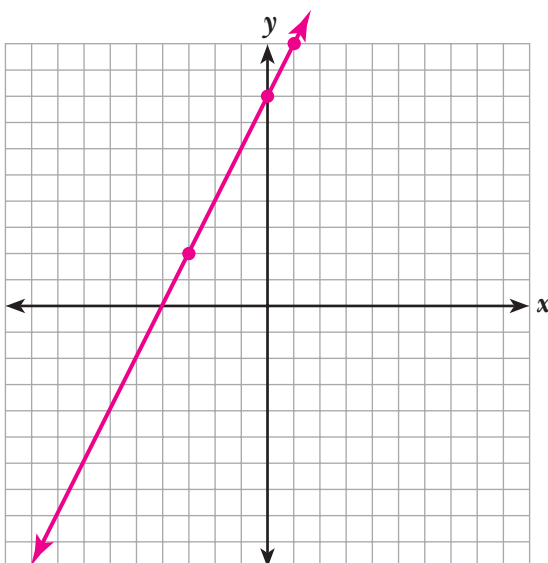
It is important to remember that any point on the graph of an equation is

a solution to the equation

- 1 Graph the equation using a table.

$$4x - 2y = -16$$

x	y
-3	2
0	8
1	10



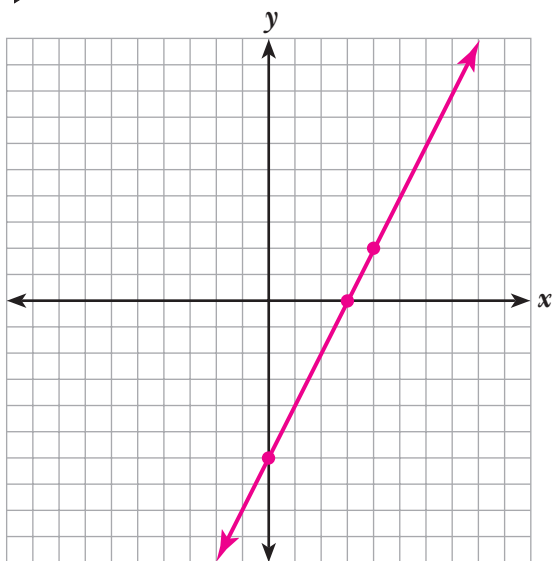
The **x-intercept** _____ is the x -coordinate of the point at which the graph crosses the x -axis.

The **y-intercept** _____ is the y -coordinate of the point at which the graph crosses the y -axis.

To find the x -intercept of any equation, set y equal to zero and solve for x .

To find the y -intercept of any equation, set x equal to zero and solve for y .

2 Graph $2x = y + 6$ using the intercept method.



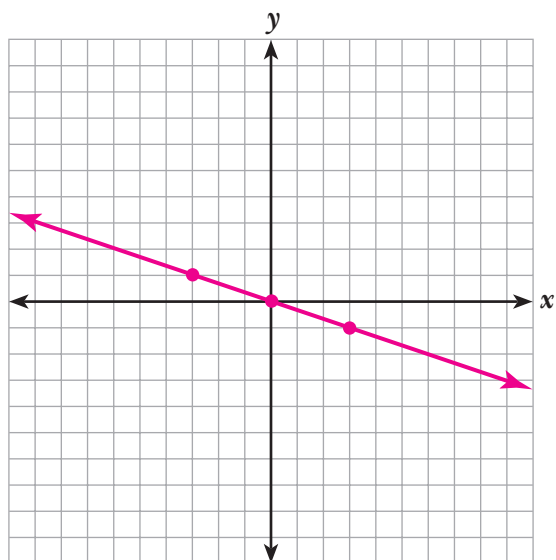
The slope of a line is the ratio rise to run.

$$\text{slope} = \frac{\text{rise}}{\text{run}}$$

Slope-intercept form of a linear equation: $y = mx + b$

$m =$ slope $b =$ y-intercept

3 Graph the equation $y = \frac{-x}{3}$ using the slope-intercept method.



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