

## Writing Linear Equations in Standard Form

## Warmup:

1. The Slope-intercept form of a linear equation is \_\_\_\_\_  
m is the \_\_\_\_\_ b is the \_\_\_\_\_

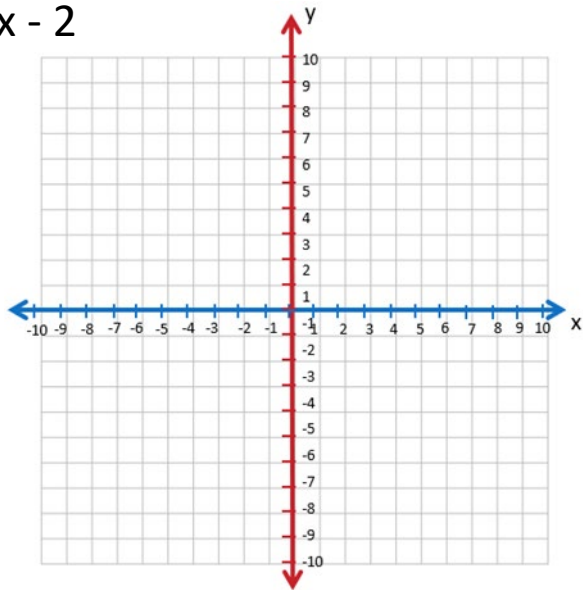
2. The slope is the \_\_\_\_\_ of the x term.

3. Slope is defined as the

\_\_\_\_\_

5.  $\frac{p}{3} + 7 = 22$

4.  $Y = -\frac{1}{4}x - 2$



## Writing Linear Equations in Standard Form

- I. Writing Equations in Slope-Intercept Form
- II. Interpreting a Linear Equation
- III. Graphing Linear Equations

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Pre-Algebra and Geometry I

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## I. Writing Equations in Slope-Intercept Form

**Slope-Intercept Form:  $y = mx + b$**

$$Y + 5 = 3x$$

$$6y = 4x$$

**6.**  $y - \frac{3}{7}x = -8$

**7.**  $Y + 9 = \frac{8}{10}x$

## II. Interpreting a Linear Equation

1. Write the equation in Slope-Intercept Form:  $y = mx + b$
2. Determine the slope and y-intercept

$$5y - 7 = 3x$$

$$8y = 3x$$

**8.** Give the slope of the linear equation.

$$10y = -7x + -30$$

9.  $y + 4 = \frac{8}{3}x$

Y-intercept: \_\_\_\_\_

Ordered pair: ( \_\_\_\_\_ , \_\_\_\_\_ )

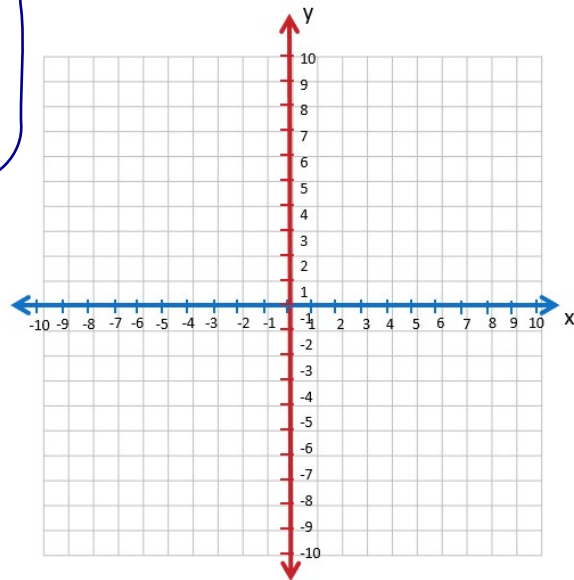
The slope is: \_\_\_\_\_

### III. Graphing Linear Equations

1. Write the equation in Slope-Intercept Form:  $y = mx + b$
2. Determine the slope and y-intercept
3. Graph the equation using the y-intercept and slope

Graph

$$3y - 9 = 2x$$



**10.**  $2 = 2x - y$

Y-intercept: \_\_\_\_\_

Ordered pair: ( \_\_\_\_\_ , \_\_\_\_\_ )

The slope is: \_\_\_\_\_

