

Name: \_\_\_\_\_

## Finding Slope of Linear Equations

First, find the x-intercept and y-intercept.

Then use the slope formula  $\longrightarrow m = \frac{y_2 - y_1}{x_2 - x_1}$

example:  $-4x + 3y = 12 \longrightarrow -4(0) + 3y = 12$

$$3y = 12$$

$$y = 4$$



x-intercept:           (-3, 0)          

y-intercept:           (0, 4)          

$$-4x + 3(0) = 12$$

$$-4x = 12$$

$$x = -3$$



# Preview

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x-intercept: \_\_\_\_\_

y-intercept: \_\_\_\_\_

slope ( $m$ ): \_\_\_\_\_

2.  $3x + 6y = 6$

x-intercept: \_\_\_\_\_

y-intercept: \_\_\_\_\_

slope ( $m$ ): \_\_\_\_\_

## Finding Slope of Linear Equations

3.  $-2x + 4y = -16$

x-intercept: \_\_\_\_\_

y-intercept: \_\_\_\_\_

slope ( $m$ ): \_\_\_\_\_

4.  $9x - 3y = 27$



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x-intercept: \_\_\_\_\_

y-intercept: \_\_\_\_\_

slope ( $m$ ): \_\_\_\_\_

6.  $-3x + 3y = 9$

x-intercept: \_\_\_\_\_

y-intercept: \_\_\_\_\_

slope ( $m$ ): \_\_\_\_\_

# ANSWER KEY

## Finding Slope of Linear Equations

1.  $-2x + 6y = 18$

x-intercept:           **(-9,0)**          

y-intercept:           **(0,3)**          

$$-2(0) + 6y = 18$$

$$6y = 18$$

$$y = 3$$

$$-2x + 6(0) = 18$$

$$-2x = 18$$

$$x = -9$$

$$\frac{0-3}{-9-0} = \frac{-3}{-9} = \frac{1}{3}$$

# Preview

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6.  $-3x + 3y = 9$

x-intercept:           **(-3,0)**          

y-intercept:           **(0,3)**          

slope (m):           **1**          

$$-3(0) + 3y = 9$$

$$3y = 9$$

$$y = 3$$

$$(0,3)$$

$$-3x + 3(0) = 9$$

$$-3x = 9$$

$$x = -3$$

$$(-3,0)$$

$$\frac{0-3}{-3-0} = \frac{-3}{-3} = 1$$