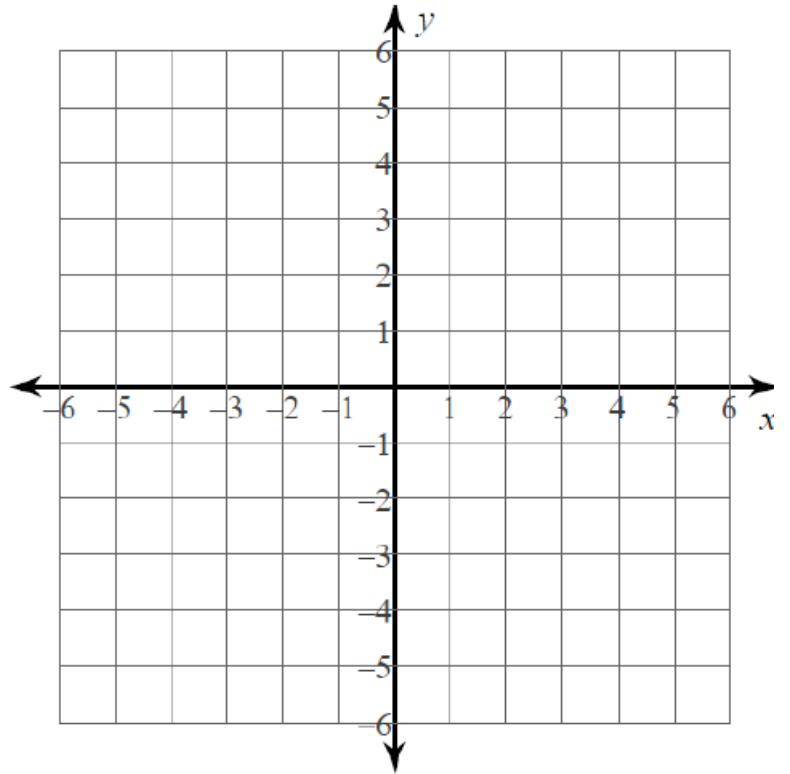
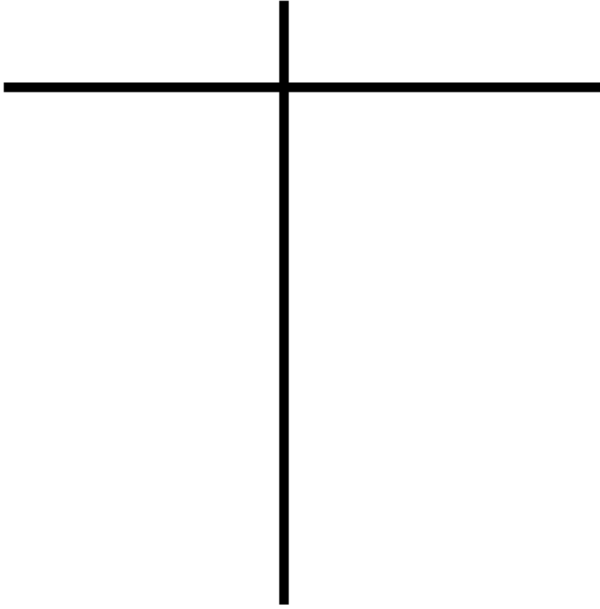


Name: _____

STUDY GUIDE TEST 1: LINEAR EQUATIONS AND SLOPE

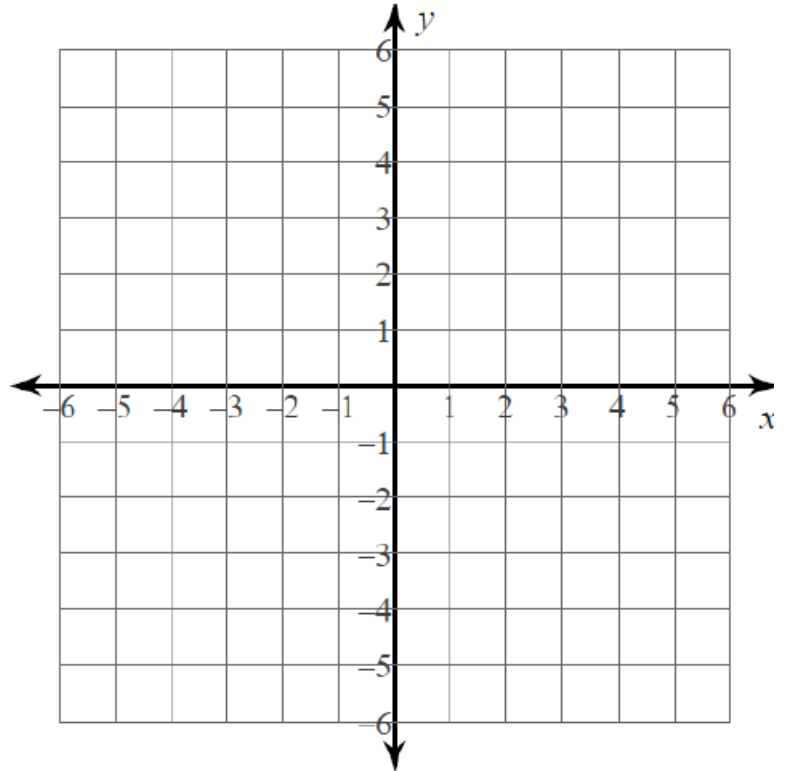
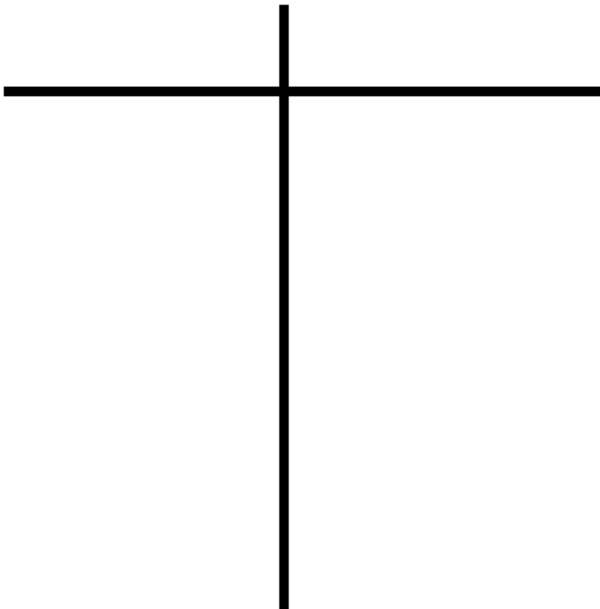
Graph the Equation

$$Y = -x + 3$$



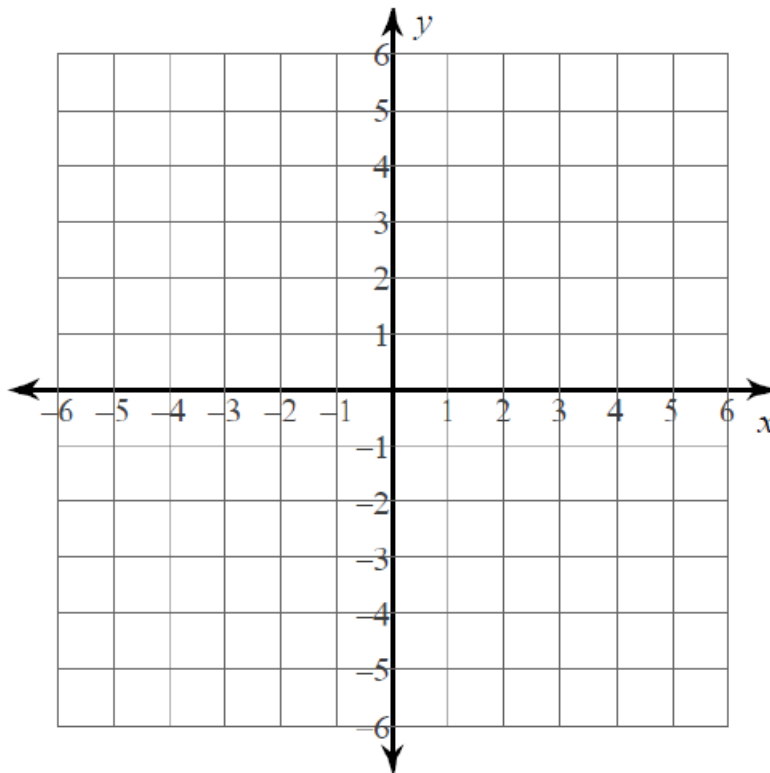
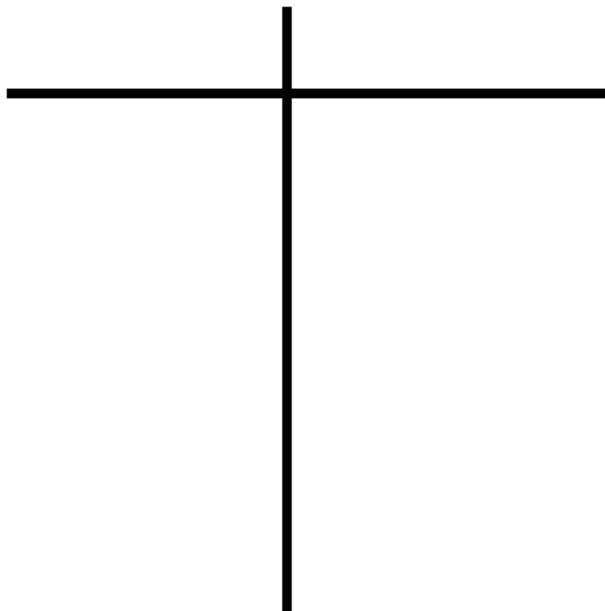
Graph the Equation

$$Y = 2x - 1$$

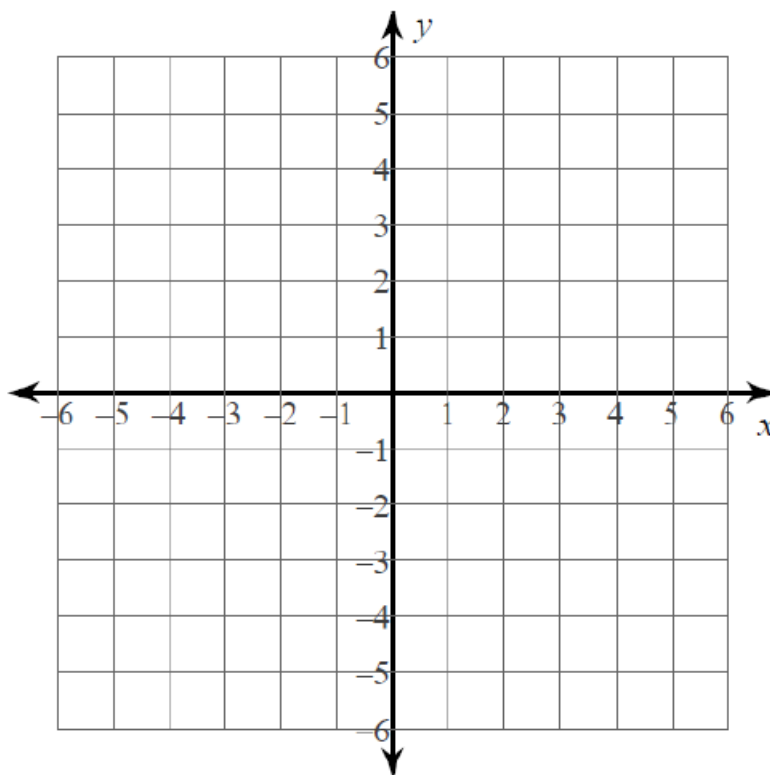


Graph the Equation

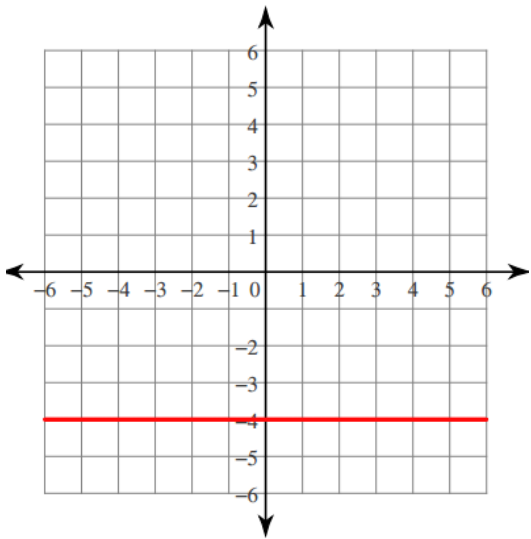
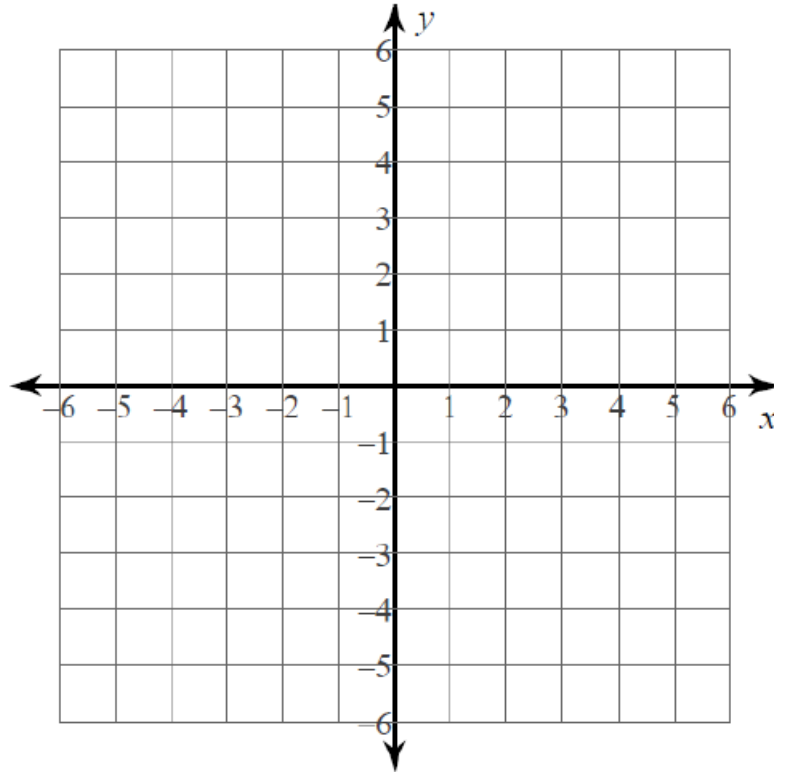
$$Y = \frac{1}{3}x + 1$$



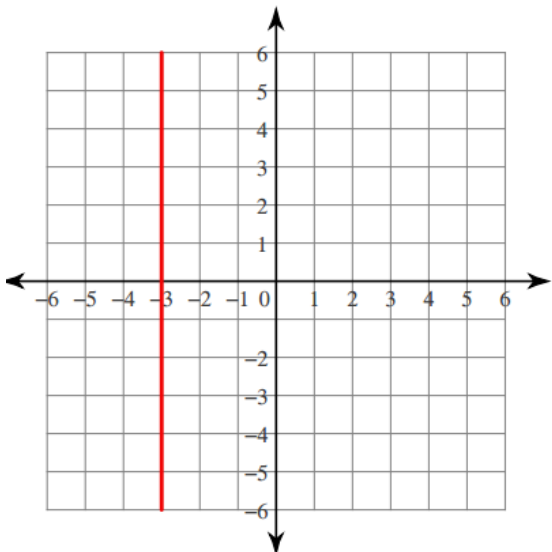
GRAPH $x = -3$



GRAPH $y=2$



Find the x and y intercepts?



Find the x and y intercepts?

Find the x and y intercepts:

$$Y = -2x + 3$$

X intercept:

(,)

Y Intercept:

(,)

Find the x and y intercepts:

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

X intercept:

(,)

Y Intercept:

(,)

Find the x and y intercepts:

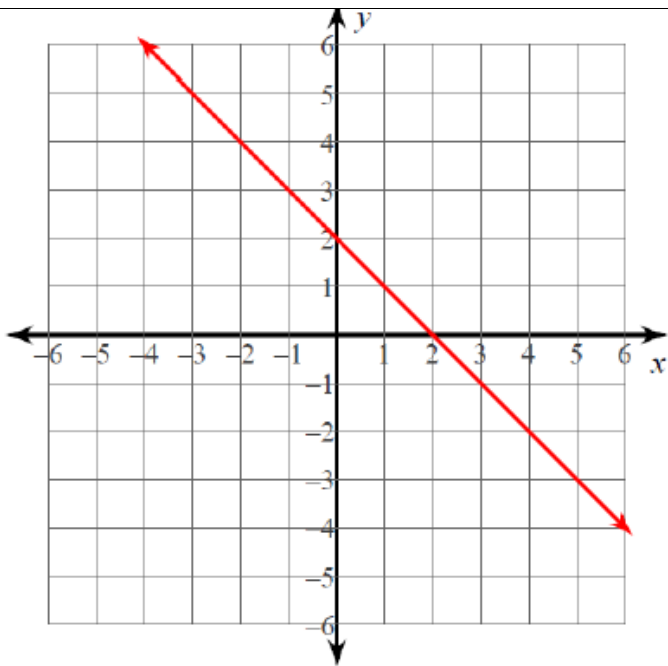
$$2x - 3y = -6$$

X intercept:

(,)

Y Intercept:

(,)



X intercept:

(,)

Y Intercept:

(,)

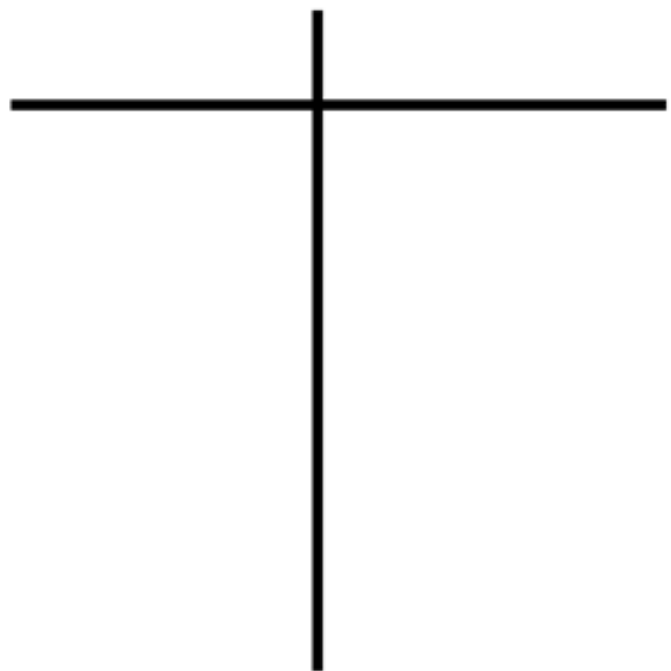
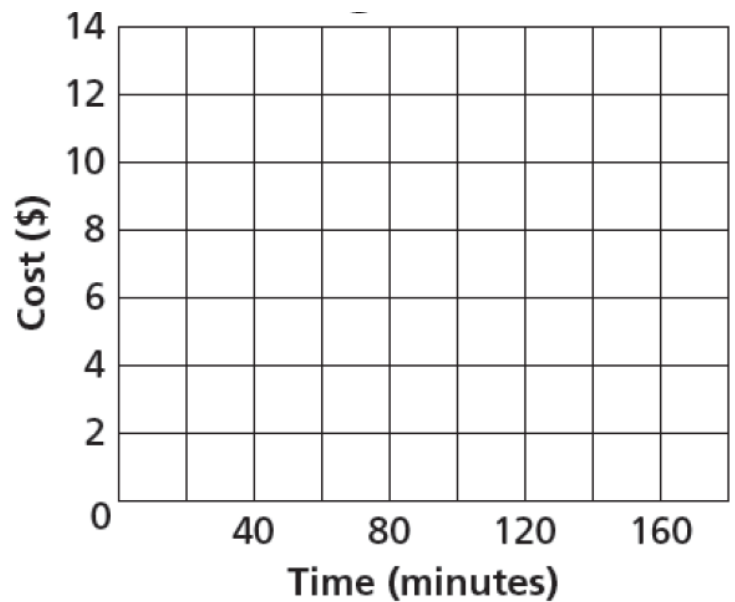
A cell phone company charges \$ 3.95 per month for service plus \$0.10 per minute charge for data. The monthly charge for service (s) can be described by the equation

$S = 0.10m + 3.95$, where m is the number of minutes.

1) FIND THE Y Intercept:

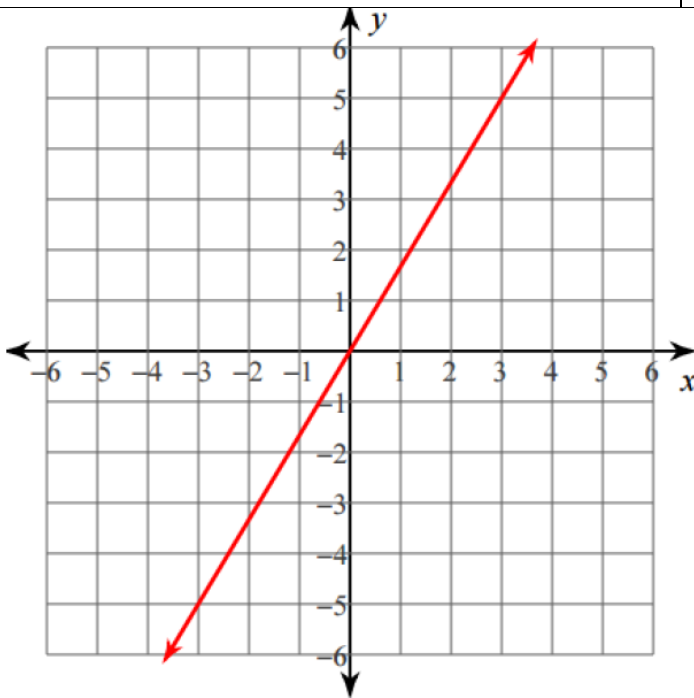
(,)

2) Graph the Equation



What is the Formula for Slope?

What is the equation for slope intercept form?



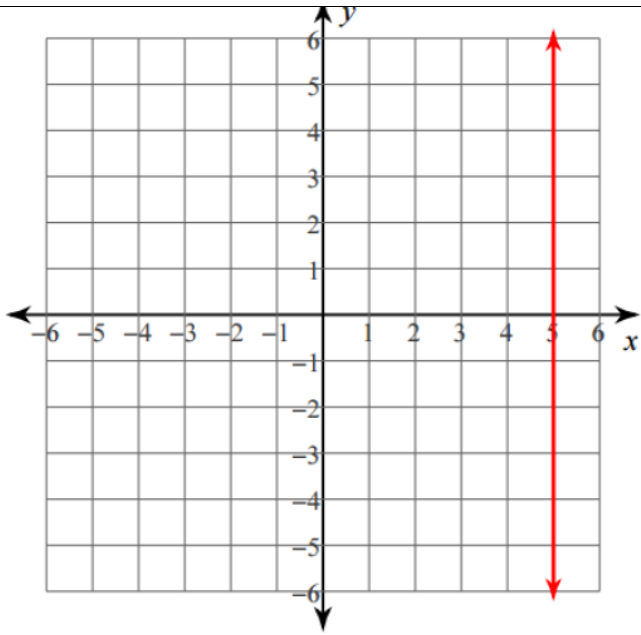
Determine the slope of the graph to the left?

What is the slope of a horizontal line?

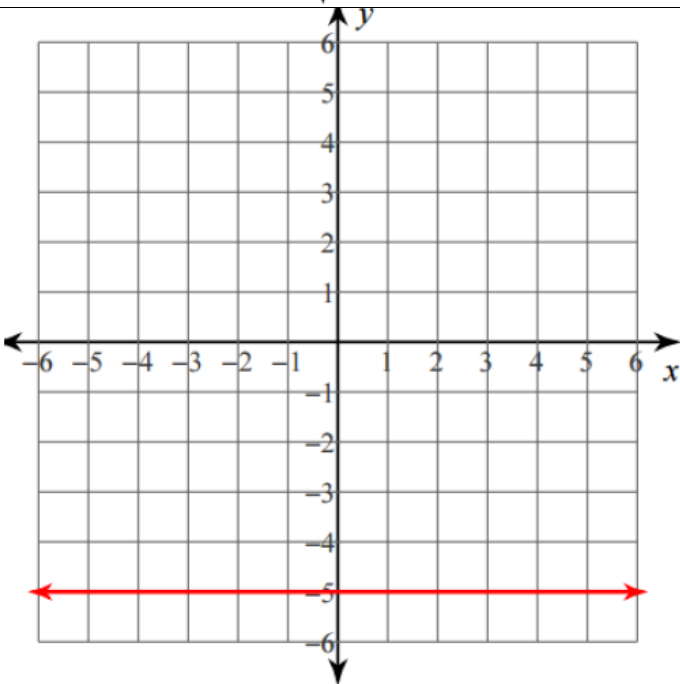
What is the slope of a vertical line?

What is the slope of $y = -6$

What is the slope of $x = 7$



What is the slope of the graph to the left?



What is the slope of the graph to the left?

Write the following in slope intercept form
 $4x - 2y = -16$

Write the following in slope intercept form
 $6x + 3y = 24$

Write an equation in slope intercept form given slope and an ordered pair

Slope = 2 through: (4,3)

Write an equation in slope intercept form given slope and an ordered pair

Slope = $\frac{1}{2}$ through: (3,1)

Write an equation in slope intercept form given two ordered pairs

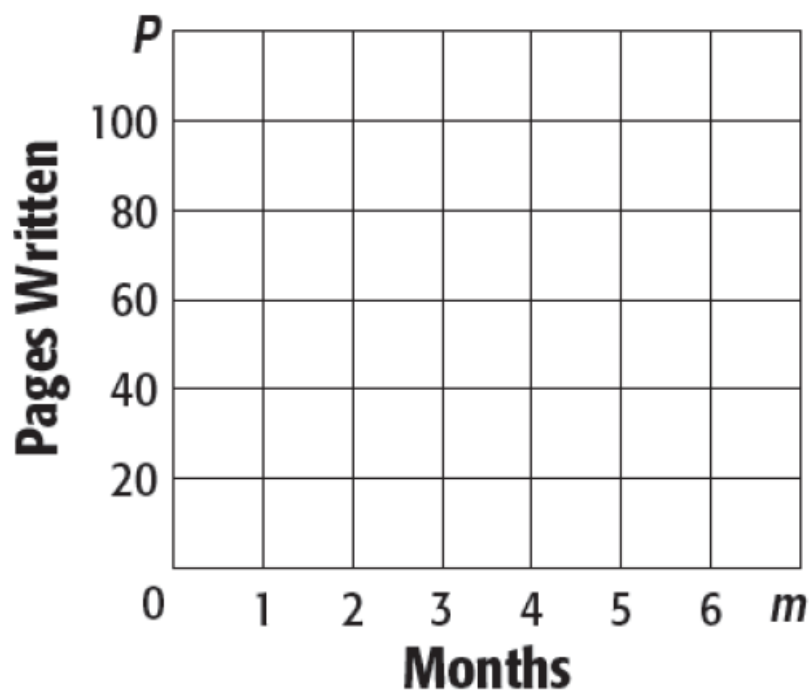
(3, 2) (1, -4)

WRITING Carla has already written 10 pages of a novel. She plans to write 15 additional pages per month until she is finished.

a. Write an equation to find the total number of pages P written after any number of months m .

b. Graph the equation on the grid

Carla's Novel



DANCE LESSONS The cost for 7 dance lessons is \$82. The cost for 11 lessons is \$122. Write a linear equation to find the total cost C for ℓ lessons. Then use the equation to find the cost of 4 lessons.