

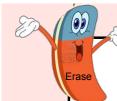
m = Rate of Change (Slope)

b = initial amount (vertical intercept or y-int.)

x = represents the x-axis

y = represents the y-axis

D	How-am-I-doing?
	1. What is the slope of the x-axis?
	2. Perpendicular lines have opposite reciprocal slopes.
	3. What is the slope perpendicular to the y-axis?0
	4. Parallel lines have the <u>same</u> slope.
	5. The slope of the y-axis is undefined (1/0)
	6. The slope parallel to -5/7 is
	7. The slope perpendicular to $\frac{6}{11}$ is $-11/6$.
	8. The slope parallel to the y-axis is undefined (1/0).
	9. Calculate the slope of (2, -5) (3, 2).
	3. Surediate the stope of (2, 6) (6, 2).
	3-2=7



1. State the slope and y-int to y = -3x + 8

Slope =
$$-3$$
 y-int = 8

2. State the slope and y-int to y = 2/5x - 3

Slope =
$$2/5$$
 y-int = -3

3. State the slope and y-int to y = 7 - 2/3x

Slope =
$$-2/3$$
 y-int = 7

4. State the slope and y-int to 4x - 2 = y

Slope =
$$4 \text{ y-int} = -2$$



1. State the slope perpendicular to $y = \frac{3}{8}x - 4$

Slope =
$$8/3$$

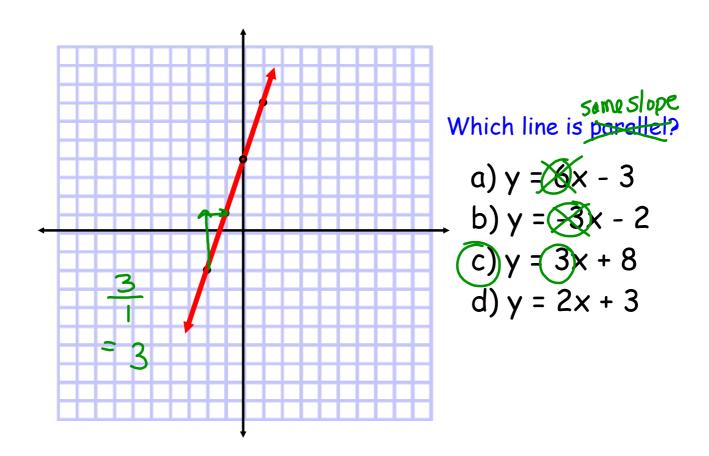
2. State the slope parallel to y = -7k + 3

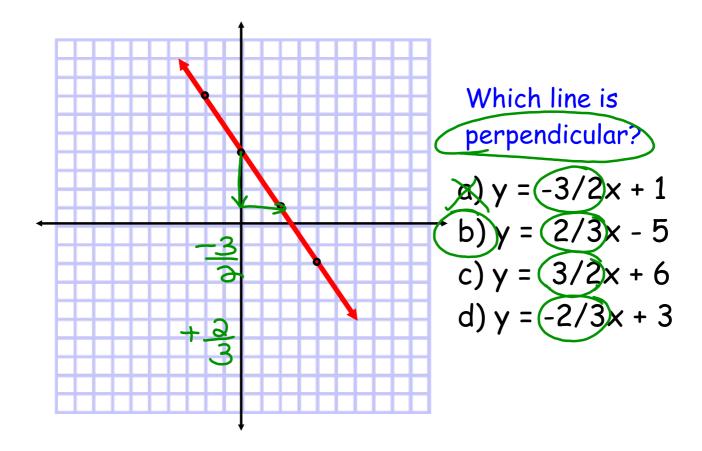
Slope =
$$-7$$

3. State the slope perpendicular to y = 6x + 2/3

Slope =
$$-1/6$$

4. State the slope perpendicular to y = -8 - 4/5xSlope = 5/4





Find the perpendicular slope to
$$2y = 6x - 8$$

$$\frac{2}{3}y = \frac{6}{5}x - \frac{8}{5}$$

 $y = 3x - 4$

Slope =
$$\frac{3}{3}$$

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

Find the parallel slope to
$$3y = 2x - 9$$

$$\frac{3}{3}y = \frac{2}{3}x - \frac{9}{3}$$
 $y = \frac{2}{3}x - 3$

Slope =
$$\frac{9/3}{3}$$

Answer= $\frac{9/3}{3}$

Find the perpendicular slope to 2(y - 2) = 4x - 8

$$2(y-2) = 4x - 8$$

$$2(y-2) = 4x - 8$$

$$2y-1 = 4x - 8 + 4$$

$$2y = 4x - 4$$

$$2y = 4x - 4$$

$$3y = 4x - 4$$

$$2y = 4x - 4$$

Slope = 3Answer= 3

Find the perpendicular slope to
$$\frac{y}{2} = 3x - 4$$

$$y = 3x - 4$$

$$y = 6x - 8$$

Slope =
$$\frac{6}{6}$$

Answer= $\frac{-1}{6}$

Find the parallel slope to
$$3x - 2 = 2y + 4$$

$$3x - 2 = 2y + 4$$
 $3y + 4 = 3x - 2 - 4$
 $3y = 3x - 8$
 $3x - 4$

Slope =
$$\frac{3}{2}$$
Answer= $\frac{3}{2}$

Find the parallel slope to
$$\frac{1}{3}(y-2) = 2x-4$$

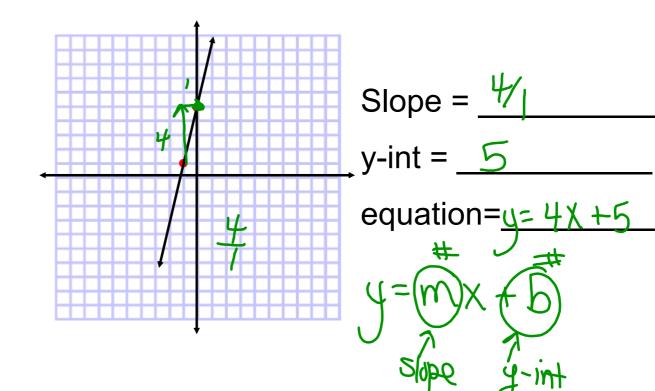
$$\frac{1}{3}(y-2) = \frac{x^3}{2}x - 4^3$$

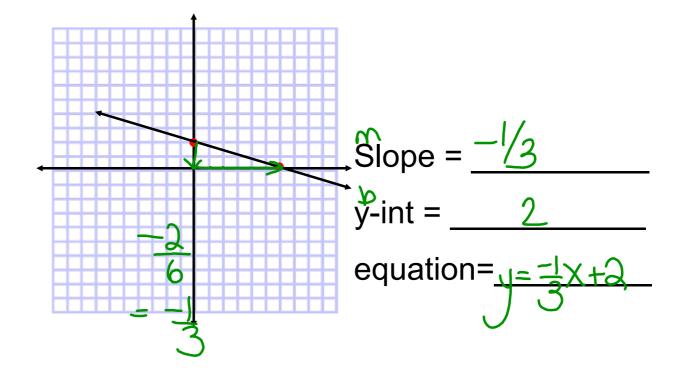
$$(y-2) = 6x - 12$$

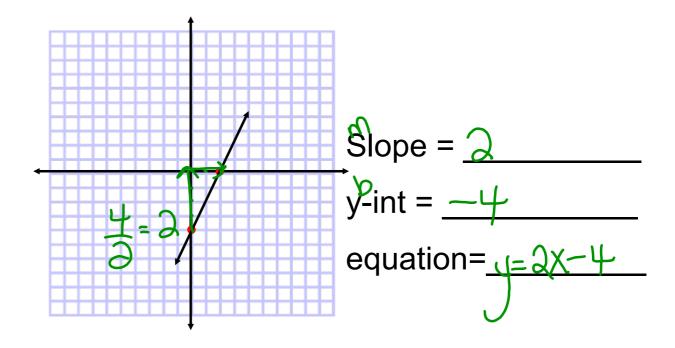
$$y-2 = 6x - 12 + 2$$

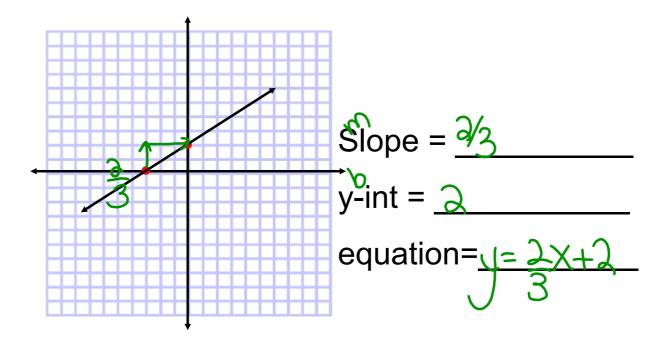
$$y=6x - 10$$

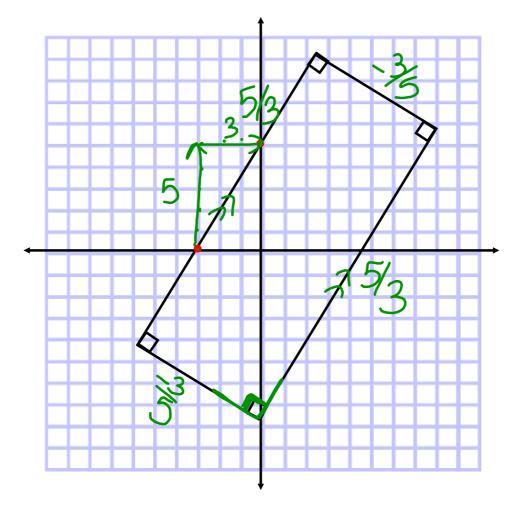
Slope =
$$\frac{6}{6}$$
Answer= $\frac{6}{6}$





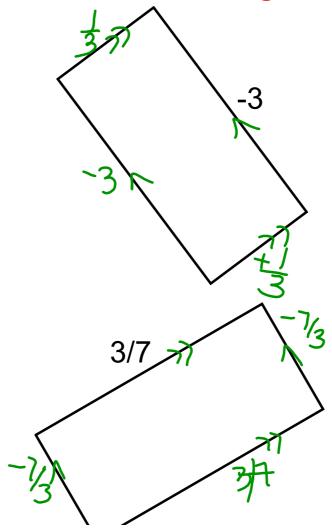






Calculate the slope of each side.

Fill in the missing slopes





a) Write an equation for the total cost, C dollars, for n months at the gym.



- b) Suppose Karim went to the gym for 23 months. What was the total cost?
- c) Suppose the total cost was \$505. For how many months did Karim use the gym?
- d) Could the total cost be exactly \$600? Justify your answer.



To join the local gym. Karim pays a start-up fee of \$99.00, plus a monthly fee of \$29.00.

m = b = x = y =

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- b) Suppose Karim went to the gym for 23 months. What was the total cost?
- c) Suppose the total cost was \$505. For how many months did Karim use the gym?
- d) Could the total cost be exactly \$600? Justify your answer.