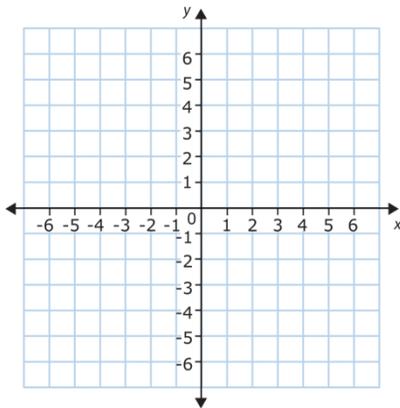


# 8<sup>th</sup> Grade Quick Check B

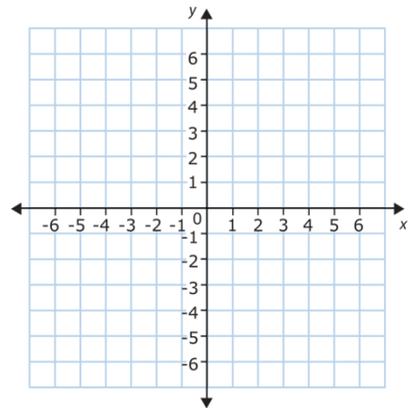
## 8.EE.5a

**Goal:** *I can graph proportional relationships and interpret the unit rate.*

1. Graph the proportional relationship:  
 $y = 2x$



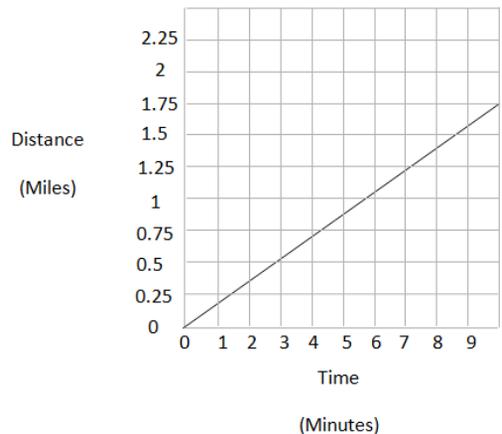
2. Graph the proportional relationship:  $y = -\frac{4}{3}x$



3. Sketch a graph to determine if  $x$  and  $y$  are in a proportional relationship.

$x$	$y$
1	0
2	5
3	10
4	20
5	40

4. John times himself running 1.75 miles. Find the unit rate to estimate how long it would take him to run 2 miles.



Name: \_\_\_\_\_ Date: \_\_\_\_\_ Score: \_\_\_\_\_

# 8<sup>th</sup> Grade Quick Check B

## 8.EE.5b

**Goal:** *I can compare proportional relationships.*

**Directions:** *Compare the following proportional relationships.*

1. Jordan measured his time every 100 meters and wants to compare to Alex's speed. Use the information below to determine who is the fastest runner.

Alex:

1600 meters in  
5 minutes and  
30 seconds

Jordan

Distance	Time
100	20 seconds
200	40 seconds
300	60 seconds
400	80 seconds

2. Find and compare the unit rates. Which one is the better buy?

**Sale**

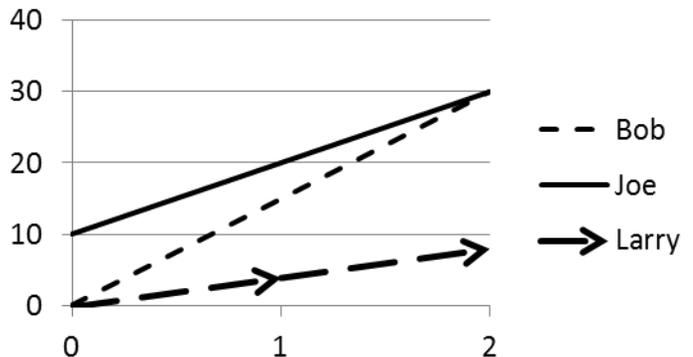
3 for \$1.00

**Sale**

10 for \$3.00

3. Use the distance vs. time graph to answer the following questions.

- a) Who is traveling at the fastest speed?  
How do you know?



- b) Find the total distance traveled by each person.

Bob = \_\_\_\_\_

Joe = \_\_\_\_\_

Larry = \_\_\_\_\_

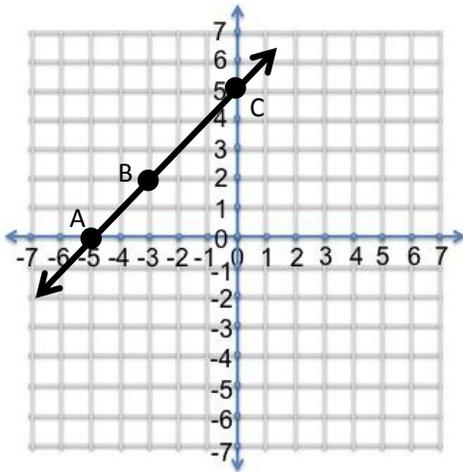
# 8<sup>th</sup> Grade Quick Check B

## 8.EE.6a

**Goal:** I can determine the slope between two points.

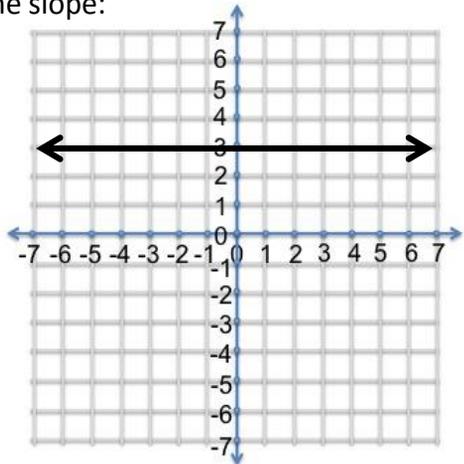
**Directions:** Find the slope.

1. Use the graph to answer the following:



- A) Find the slope between Point A and Point B:  
 B) Find the slope between Point B and Point C:

2. Choose any two points on the line to find the slope:



- a) Point A: \_\_\_\_\_ Point B: \_\_\_\_\_  
 b) Slope = \_\_\_\_\_  
 c) What would happen if you chose two different points? Explain your answer.

3. Find the slope between the two ordered pairs:  $(8, -1)$  and  $(-2, -7)$

4. Find the slope between the two ordered pairs:  $(9, -4)$  and  $(6, 4)$

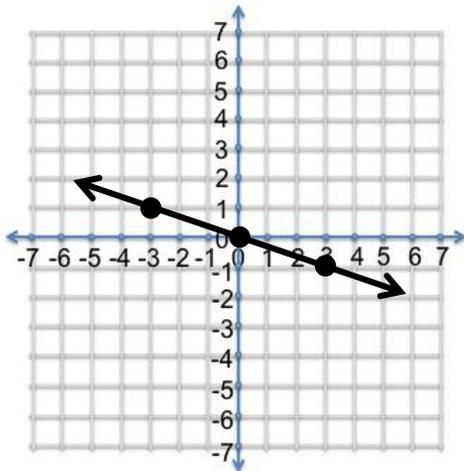
# 8<sup>th</sup> Grade Quick Check B

## 8.EE.6b

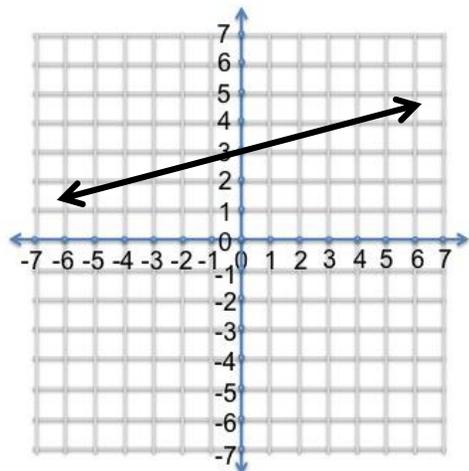
**Goal:** I can write the slope-intercept form of an equation of a line.

**Directions:** Write an equation in slope-intercept form.

1. Give the equation:



2. Give the equation:



3. Charlotte is mailing a package to her grandma. The table shows the total cost based on package weight. Explain how the cost is determined. Then, use the information to create an equation in slope-intercept form.

Weight	Cost
1	\$5
2	\$7
3	\$9
4	\$11
5	\$13

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Score: \_\_\_\_\_

# 8<sup>th</sup> Grade Quick Check B

## 8.EE.6c

**Goal:** *I can graph equations in slope-intercept form.*

1. Graph the equation:  
 $y = 0.5x$

2. Graph the equation:  
 $y = -2x - 3$

3. Graph the equation:  
 $y = \frac{3}{4}x + 1$

4. Write an equation and graph the following situation:  
*The water level of a river is 34 feet and it is receding at a rate of 0.5 foot per day.*