

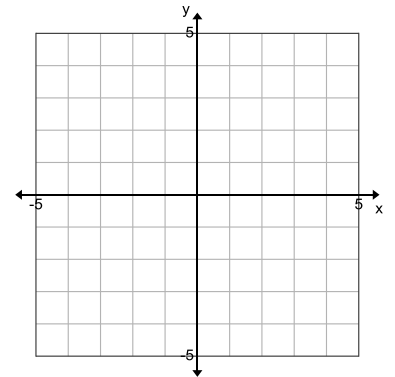
# Coordinate Plane, Slope, and Lines

## Long-Term Memory Review

### Review 1

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1. What does “slope of a line” mean?
  
  
  
  
  
  
  
  
  
  
2. How do you find the slope of a line?
  
  
  
  
  
  
  
  
  
  
3. What is the y-intercept?
  
  
  
  
  
  
  
  
  
  
4. Plot and label the points  $A(3, 2)$  and  $B(-2, -2)$  .
  - a. From point  $B$  to point  $A$ , by how much does the  $y$ -value change? \_\_\_\_\_
  - b. From point  $B$  to point  $A$ , by how much does the  $x$ -value change?  
\_\_\_\_\_
  - c. What is the slope of  $\overline{AB}$  ? \_\_\_\_\_
  
  
  
  
  
  
  
  
  
  
5. Using points  $A(-3, 1)$  and  $B(1, 0)$ , what is the slope of  $\overline{AB}$  ?



# Coordinate Plane, Slope, and Lines

## Long-Term Memory Review

### Review 2

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1. What does “slope of a line” mean?

2. How do you find the slope of a line?

3. What is the y-intercept?

4. Identify the slope of the following lines as positive, negative, zero and no/undefined slope:



\_\_\_\_\_



\_\_\_\_\_



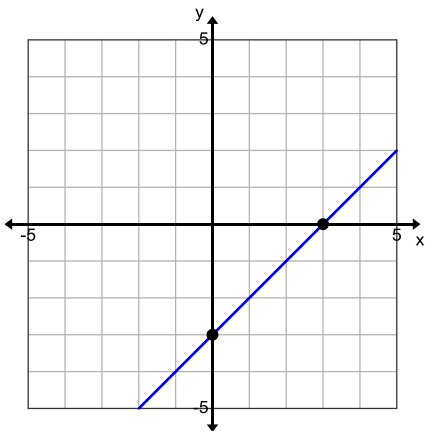
\_\_\_\_\_



\_\_\_\_\_

5. In the equation  $y = 3x + 2$  : the slope is \_\_\_\_\_ and the y-intercept is \_\_\_\_\_.

6. What is the y-intercept of the graph below? \_\_\_\_\_



# Coordinate Plane, Slope, and Lines

## Long-Term Memory Review

### Review 3

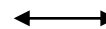
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1. What does “slope of a line” mean?

2. How do you find the slope of a line?

3. What is the y-intercept?

4. Identify the slope of the following lines as positive, negative, zero and no/undefined slope:



\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

5. Plot the points  $A(0,1)$  and  $B(2,0)$ .

a. From point  $B$  to point  $A$ , by how much does the  $y$ -value change? \_\_\_\_\_

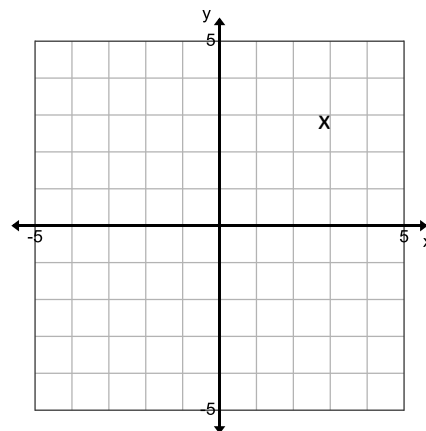
b. From point  $B$  to point  $A$ , by how much does the  $x$ -value change? \_\_\_\_\_

c. What is the slope of  $\overline{AB}$ ? \_\_\_\_\_

d. What is the  $y$ -intercept of  $\overline{AB}$ ? \_\_\_\_\_

e. What is the equation of the line in standard form  $Ax + By = C$ ?

\_\_\_\_\_



6. Use the information in question #5 above. What is the correct equation of the line?

A.  $y = x + 2$

B.  $y = -2x + 1$

C.  $y = -\frac{1}{2}x + 1$

D.  $y = 2x + 1$

# Coordinate Plane, Slope, and Lines

## Long-Term Memory Review

### Review 4

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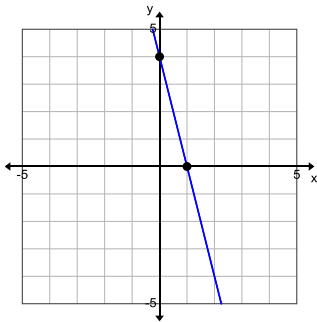
1. What does “slope of a line” mean?

2. How do you find the slope of a line?

3. What is the y-intercept?

4. In the equation  $y = -\frac{1}{2}x - 4$  : the slope is \_\_\_\_\_ and the y-intercept is \_\_\_\_\_.

5. Using the following graph:

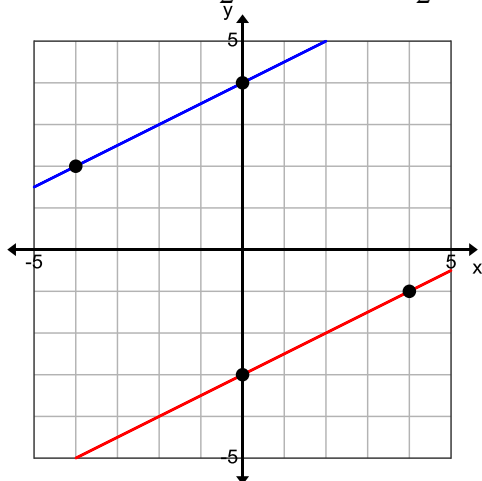


a. What is the slope of the line? \_\_\_\_\_

b. What is the y-intercept? \_\_\_\_\_

c. What is the equation of the line?  $y = \underline{\hspace{1cm}}x + \underline{\hspace{1cm}}$

6. For the lines  $y = \frac{1}{2}x - 3$  and  $y = \frac{1}{2}x + 4$  :



a. What do you notice about the lines?

b. What do you notice about the slope (from the equations)?

c. What conclusion can you make about the slopes of lines that parallel?

# Coordinate Plane, Slope, and Lines

## Long-Term Memory Review

### Quiz

1. What does “slope of a line” mean?
2. How do you find the slope of a line?
3. What is the y-intercept?
4. In the equation  $y = -\frac{1}{2}x + 4$  : the slope is \_\_\_\_\_ and the y-intercept is \_\_\_\_\_
5. Identify the slope of the following lines as positive, negative, zero and no/undefined slope:



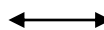
\_\_\_\_\_



\_\_\_\_\_

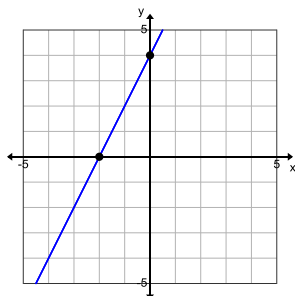


\_\_\_\_\_



\_\_\_\_\_

6. What is the slope of the line in the following graph?



A. 3

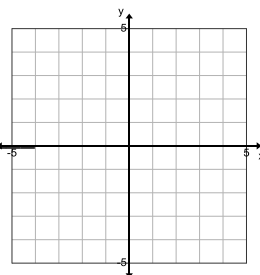
B. 2

C.  $\frac{3}{2}$

D.  $\frac{2}{3}$

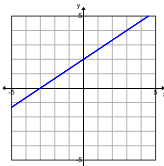
7. Two lines are parallel if they have the same \_\_\_\_\_.

8. What is the slope of a line that passes through the points (2, 4) and (-2, -4)? \_\_\_\_\_

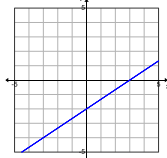


9. Which of the following is the correct graph of  $y = -2x + 3$ ? \_\_\_\_\_

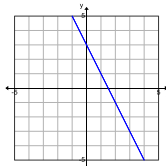
A.



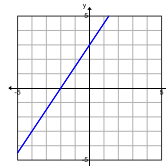
B.



C.



D.



# Coordinate Plane, Slope, and Lines

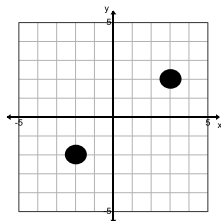
## Long-Term Memory Review

### ANSWERS

#### Review 1 - Answers

- Slope means the slant of a line. (steepness, how much it rises for a given distance, etc)
- Slope is found by  $\frac{\text{change in } y}{\text{change in } x}$
- The y-intercept is where the line crosses the y-axis on the graph.

- 4
  - 5
  - $\frac{4}{5}$



- $\frac{1}{-4}$  or  $-\frac{1}{4}$

#### Review 2 - Answers

- Slope means the slant of a line. (steepness, how much it rises for a given distance, etc)
- Slope is found by  $\frac{\text{change in } y}{\text{change in } x}$
- The y-intercept is where the line crosses the y-axis on the graph.

- no slope or undefined  $\updownarrow$  negative slope  $\swarrow$  positive slope  $\swarrow$  zero slope  $\longleftrightarrow$

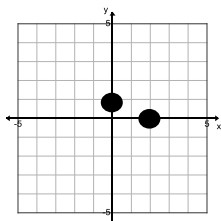
- slope 3; y-intercept 2
- y-intercept -3

#### Review 3 - Answers

- Slope means the slant of a line. (steepness, how much it rises for a given distance, etc)
- Slope is found by  $\frac{\text{change in } y}{\text{change in } x}$
- The y-intercept is where the line crosses the y-axis on the graph.

- no slope or undefined  $\updownarrow$  negative slope  $\swarrow$  positive slope  $\swarrow$  zero slope  $\longleftrightarrow$

- 1
  - 2
  - $-\frac{1}{2}$
  - 1
  - $x + 2y = 2$



- C.  $y = -\frac{1}{2}x + 1$

# Coordinate Plane, Slope, and Lines

## Long-Term Memory Review

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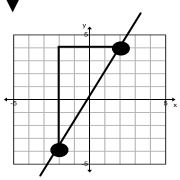
### Review 4 - Answers

1. Slope means the slant of a line. (steepness, how much it rises for a given distance, etc)
2. Slope is found by  $\frac{\text{change in } y}{\text{change in } x}$
3. The y-intercept is where the line crosses the y-axis on the graph.
4. slope  $\frac{-1}{2}$ ; y-intercept  $-4$
5. A. slope  $-4$ ;  
B. y-intercept  $4$   
C.  $y = -4x + 4$
6. A. The lines have the same slope, do not intersect, are parallel.  
B. both lines have slope  $\frac{1}{2}$   
C. The slopes of parallel lines are equal.

### Quiz - Answers

1. Slope means the slant of a line. (steepness, how much it rises for a given distance, etc)
2. Slope is found by  $\frac{\text{change in } y}{\text{change in } x}$
3. The y-intercept is where the line crosses the y-axis on the graph.
4. slope  $\frac{-1}{2}$ ; y-intercept  $4$
5. 

no slope or undefined      negative slope      positive slope      zero slope


6. B. 2
7. slope
8. 2
9. C.