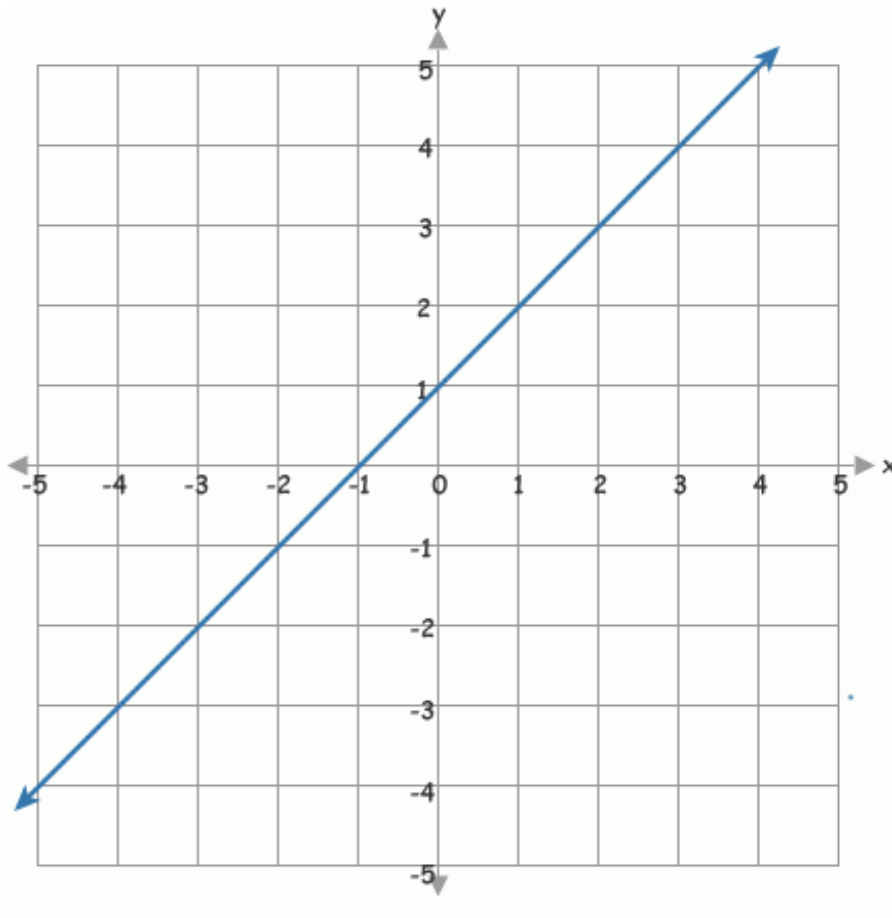


Lesson: Linear Equations

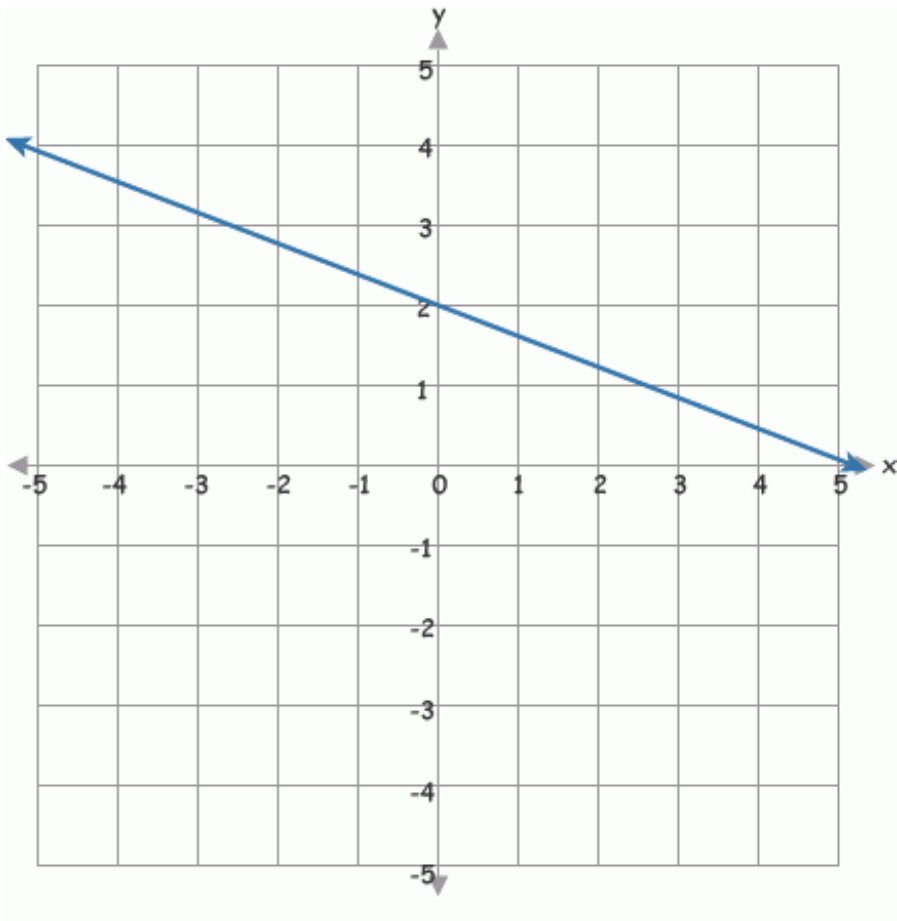
Lesson Topic: Find the y-intercept of a line on a graph

Question 1:



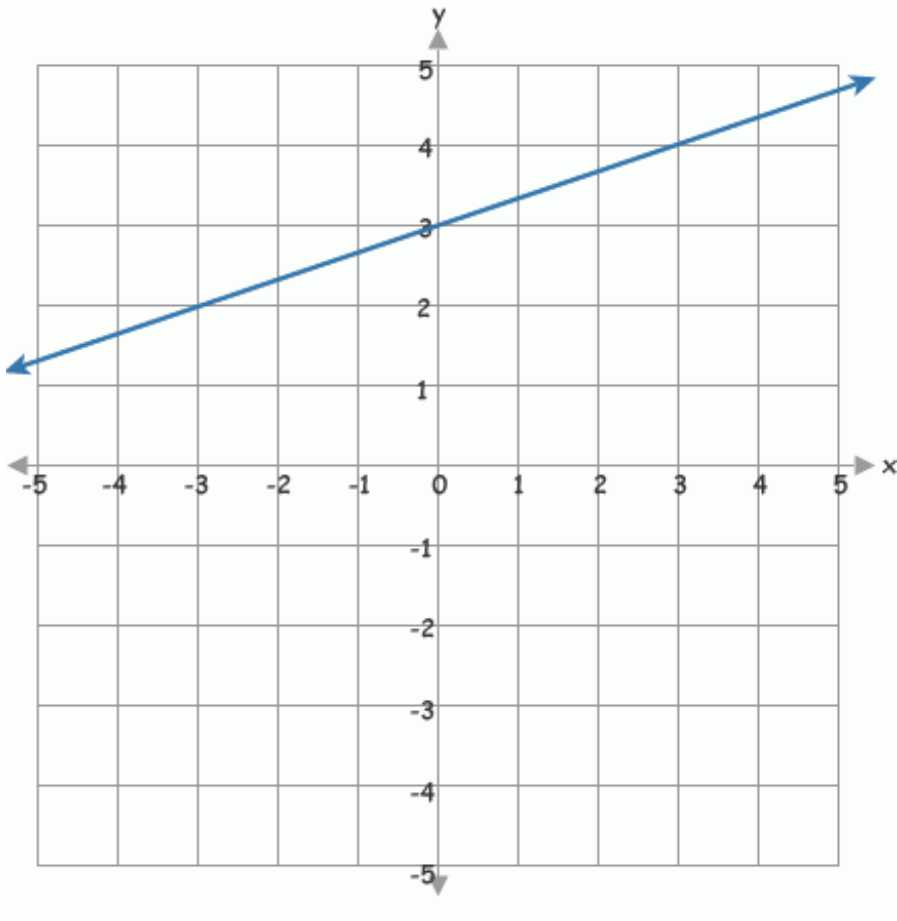
The line shown above has a y-intercept of .

Question 2:



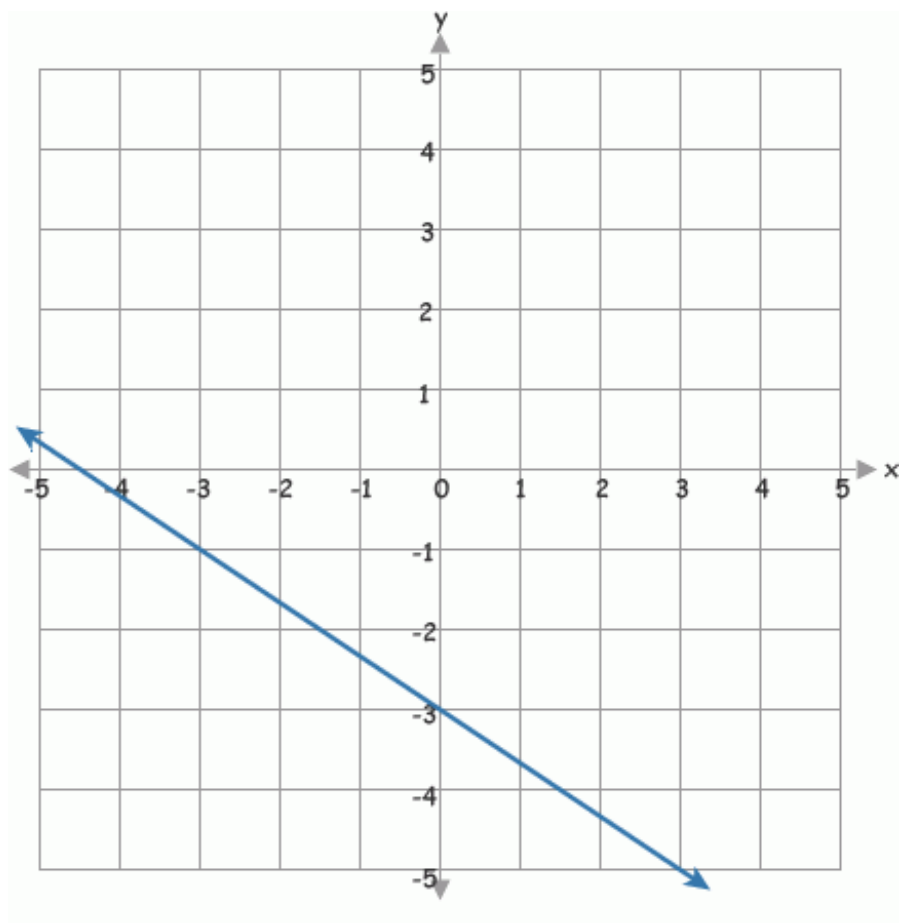
The line shown above has a y -intercept of .

Question 3:



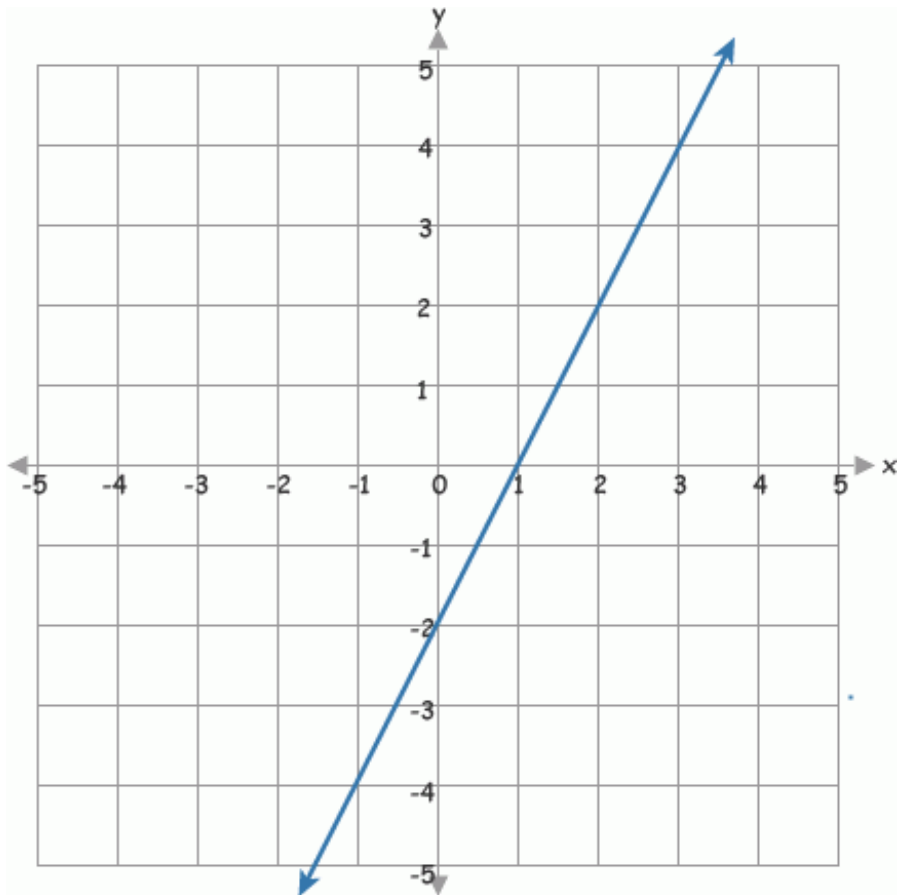
The line shown above has a y -intercept of .

Question 4:



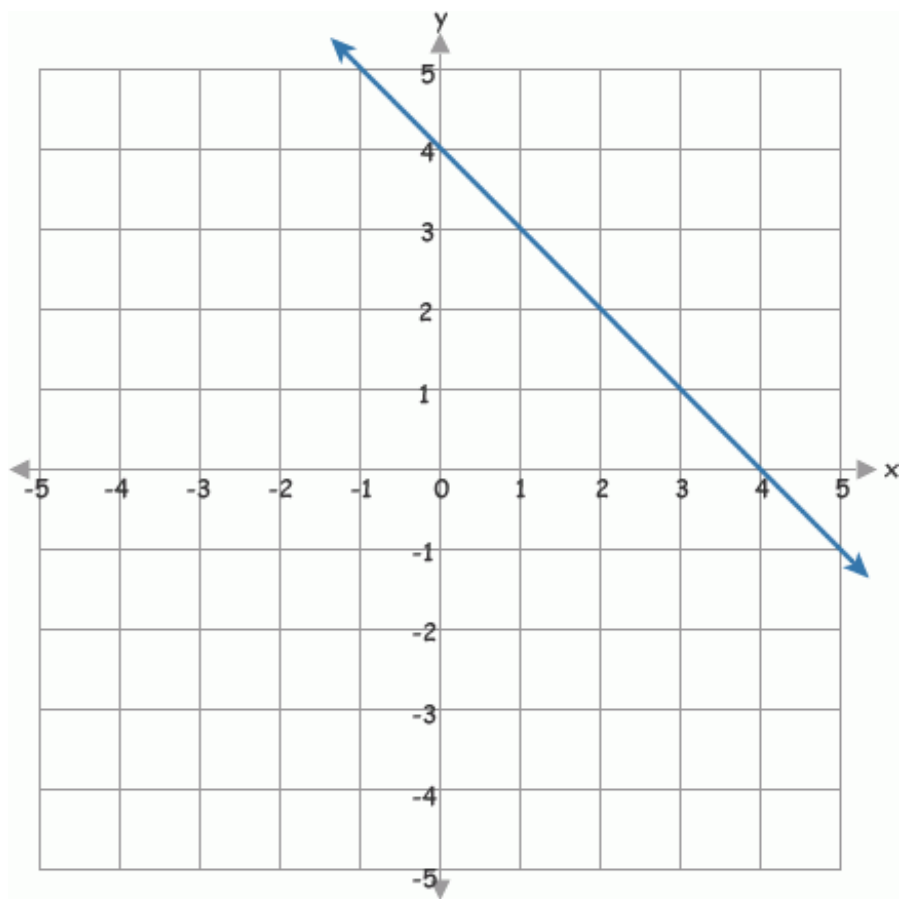
The line shown above has a y-intercept of .

Question 5:



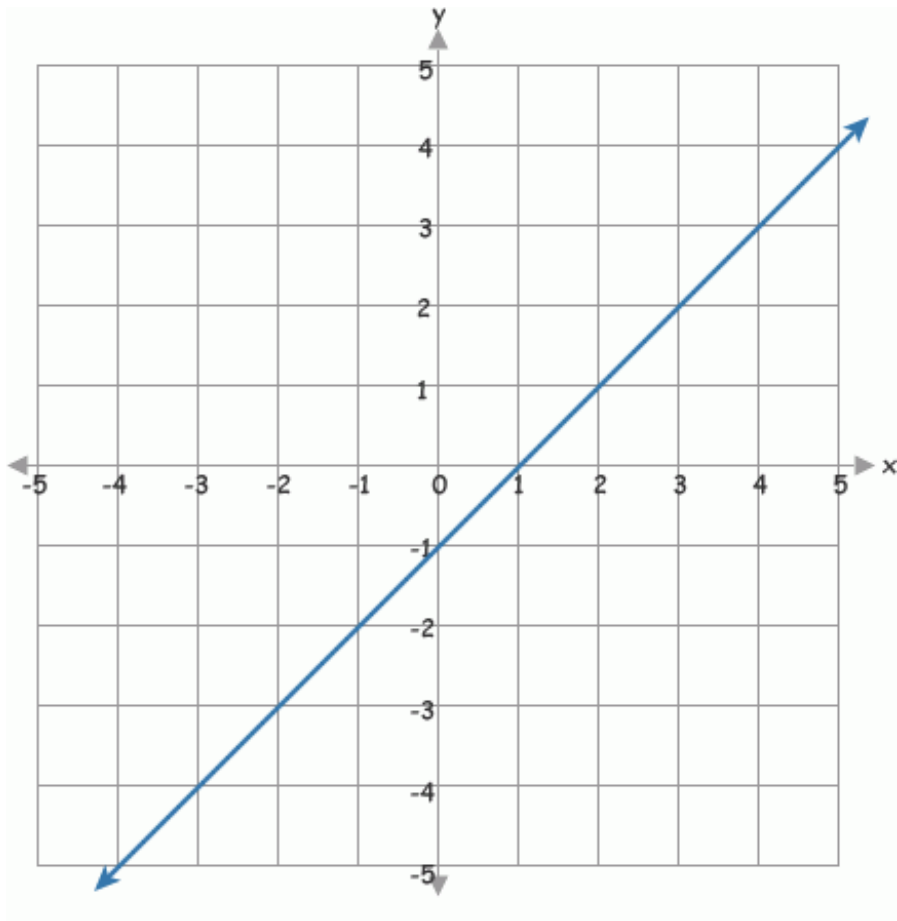
The line shown above has a y-intercept of .

Question 6:



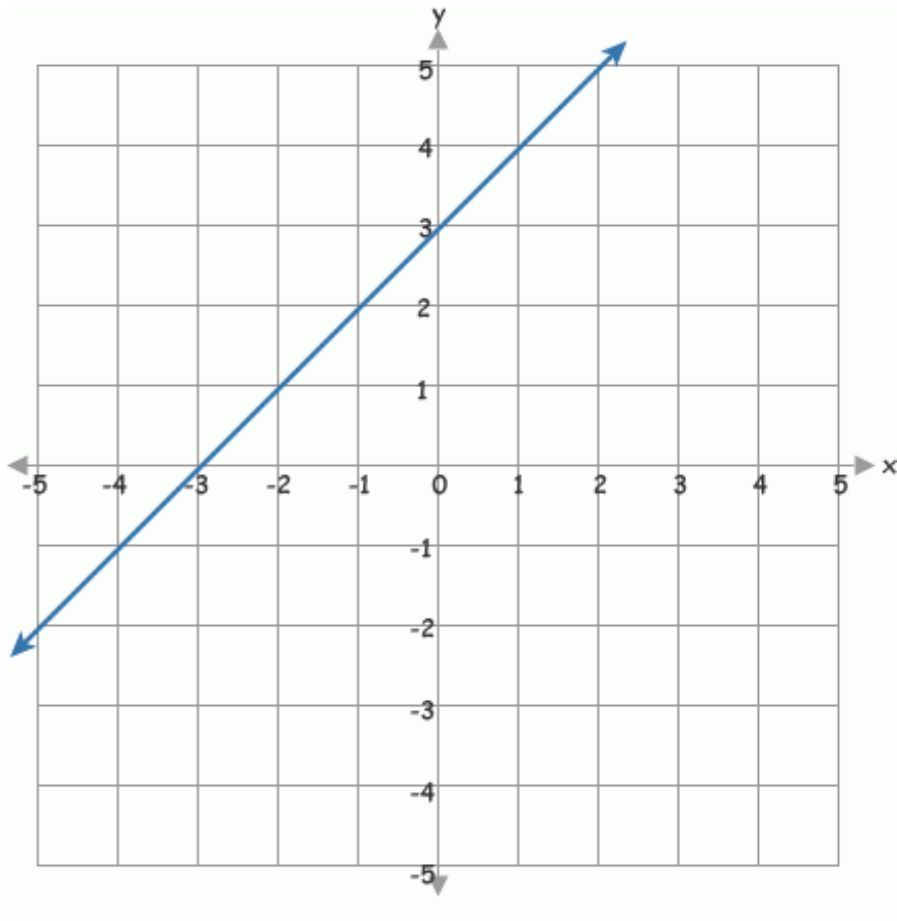
The line shown above has a y-intercept of .

Question 7:



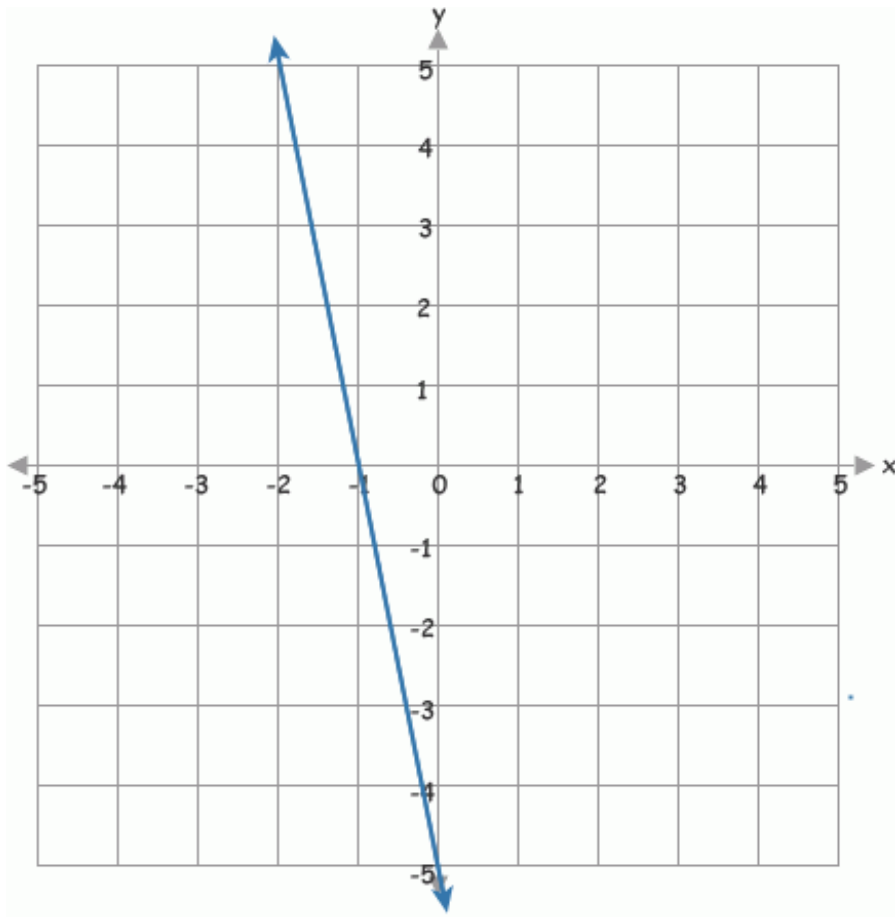
The line shown above has a y-intercept of .

Question 8:



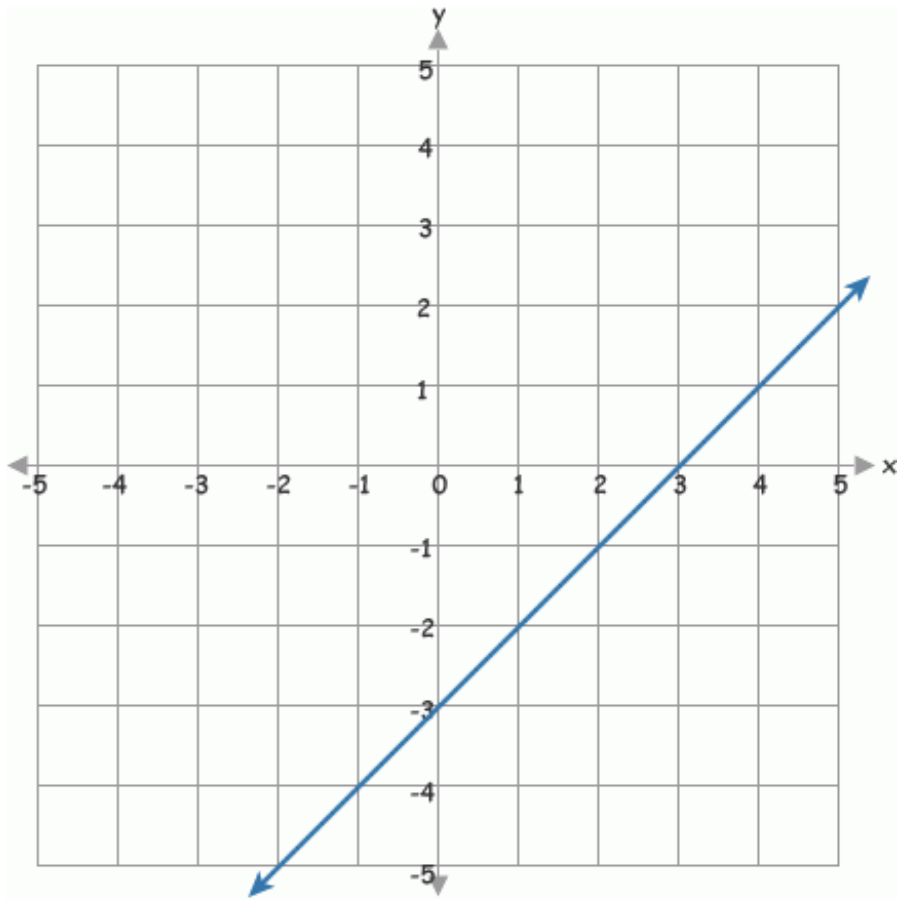
The line shown above has a y-intercept of .

Question 9:



The line shown above has a y -intercept of .

Question 10:

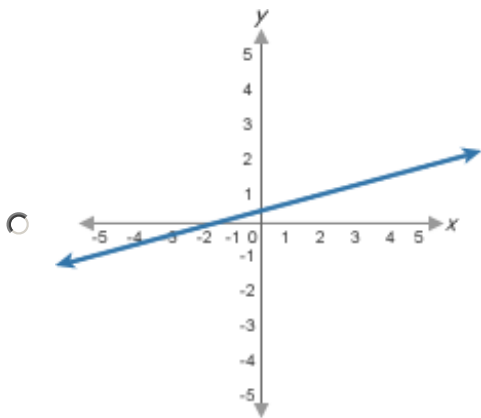
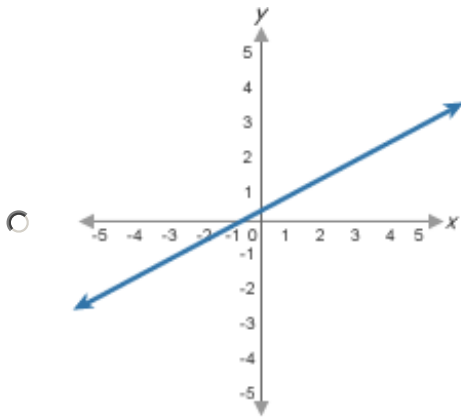
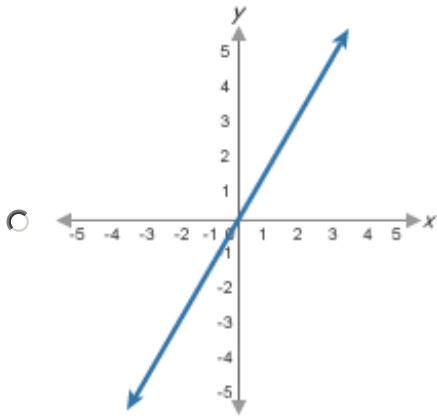


The line shown above has a y-intercept of .

Lesson Topic: Define slope

Question 1:

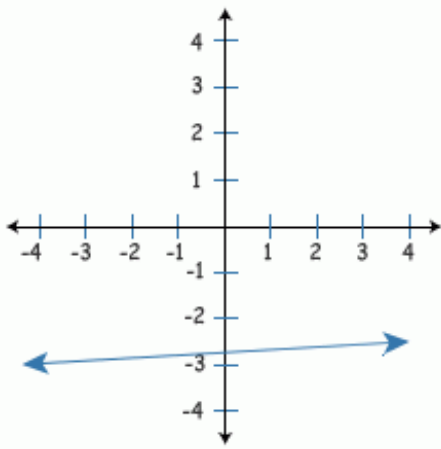
Which line has the **largest** slope?



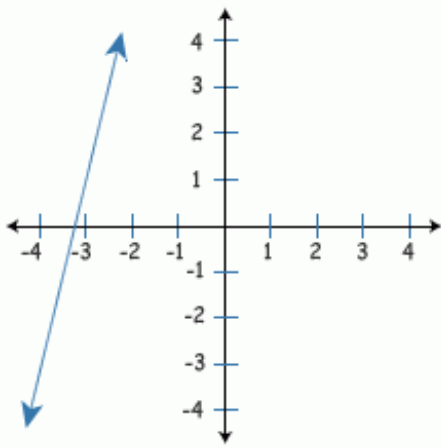
Question 2:

For which line is the slope **greatest**?

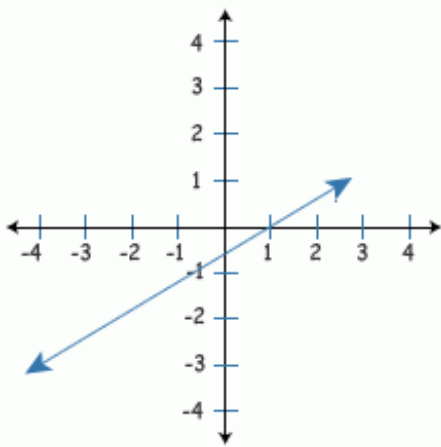
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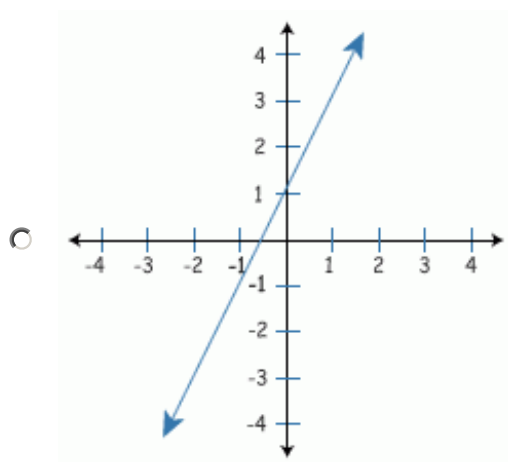
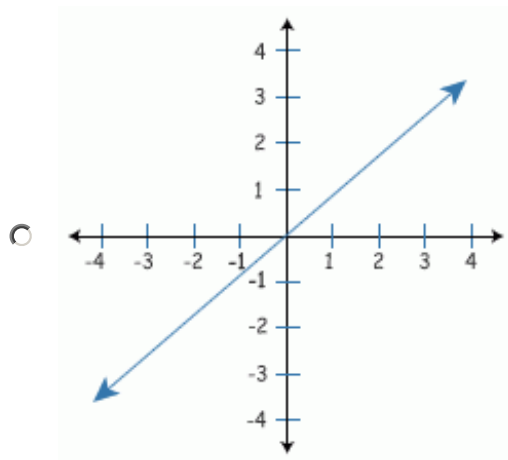
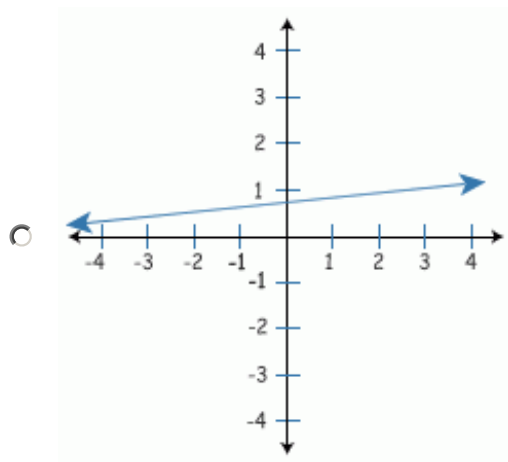


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Question 3:

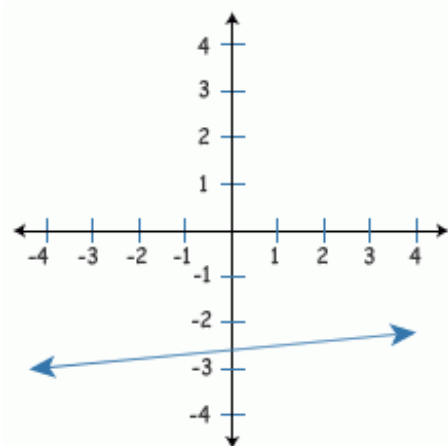
For which line is the slope **greatest**?



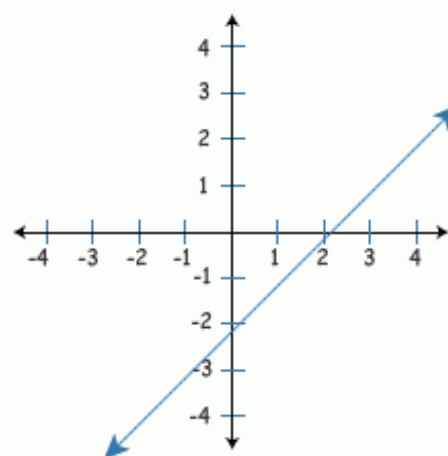
Question 4:

For which line is the slope **least**?

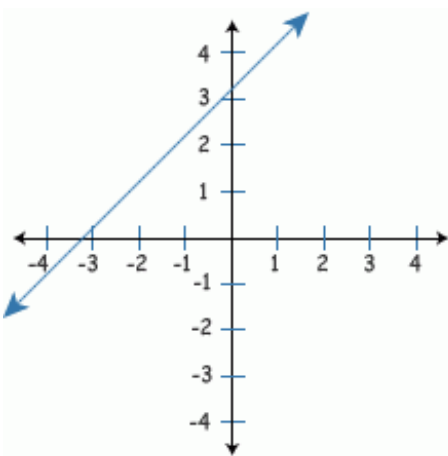
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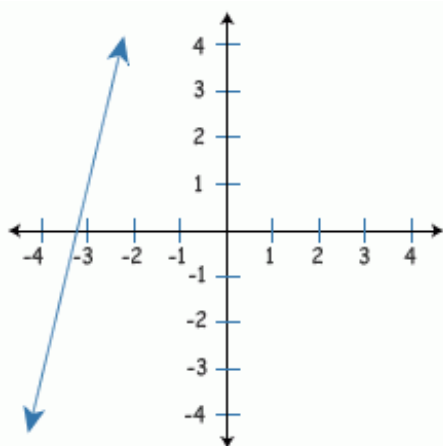
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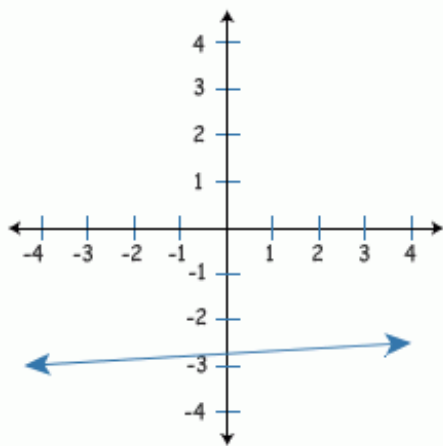
Question 5:

For which line is the slope **least**?

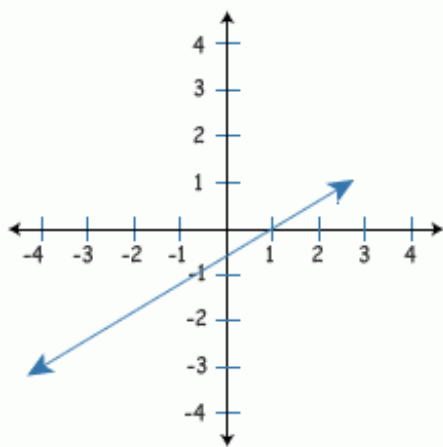
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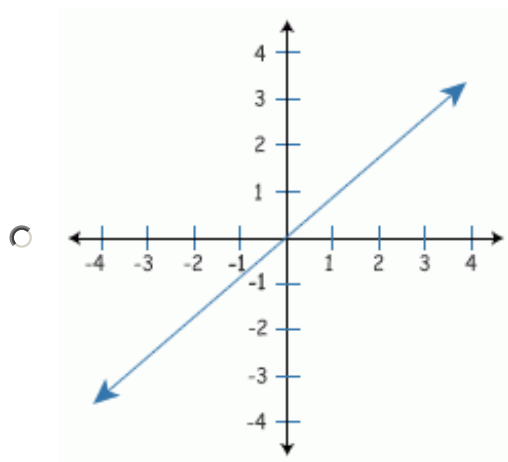
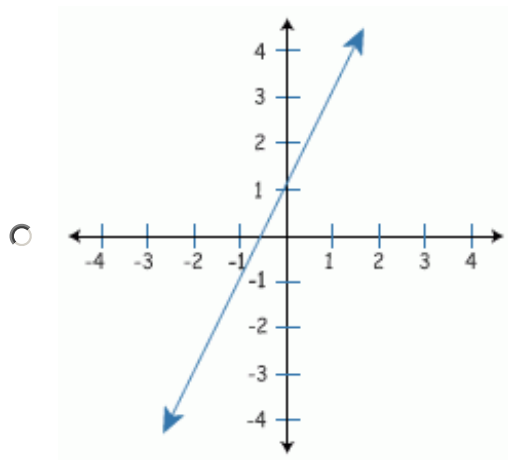
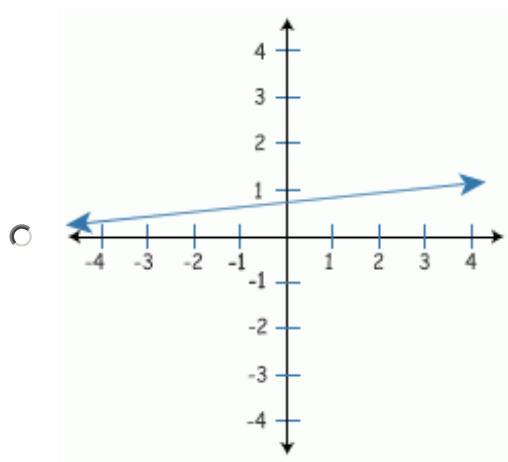


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Question 6:

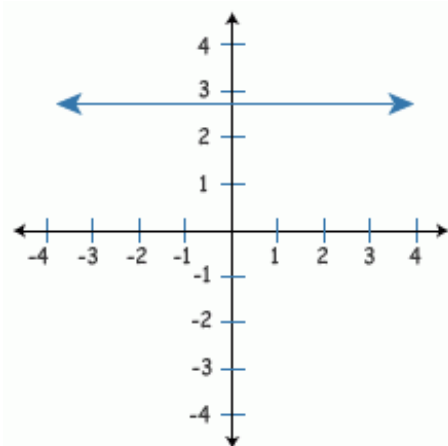
For which line is the slope **least**?



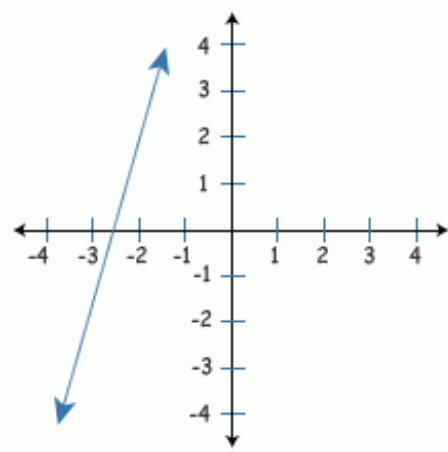
Question 7:

For which line is the slope **greatest**?

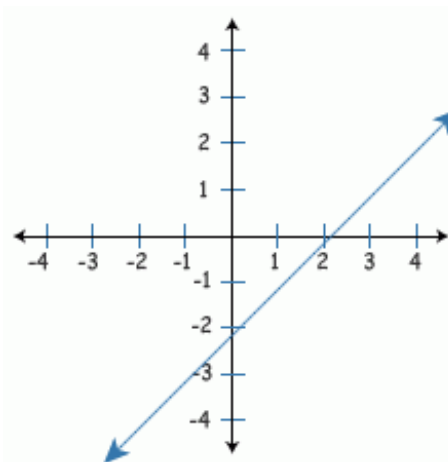
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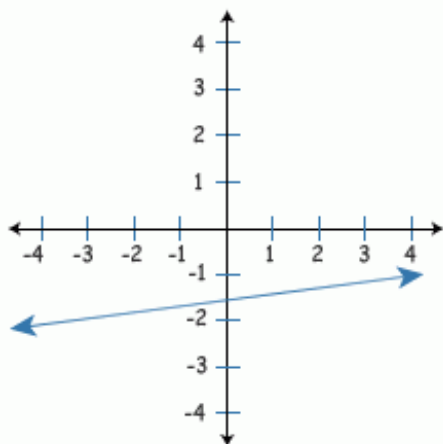
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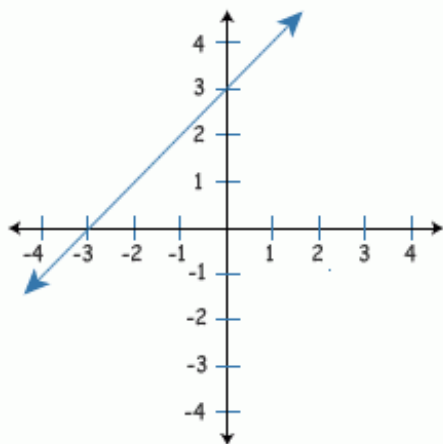
Question 8:

For which line is the slope **greatest**?

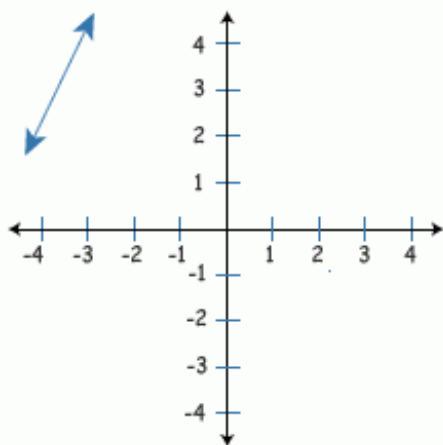
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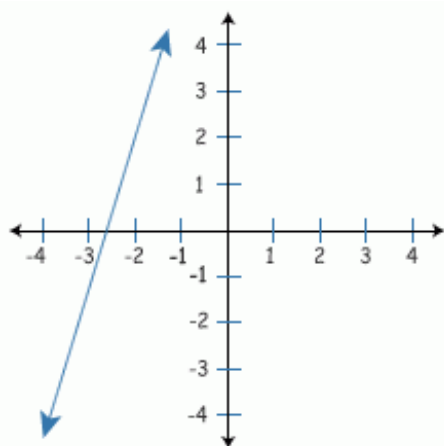
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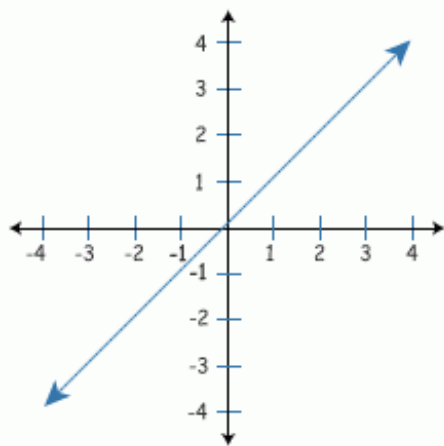
Question 9:

For which line is the slope **greatest**?

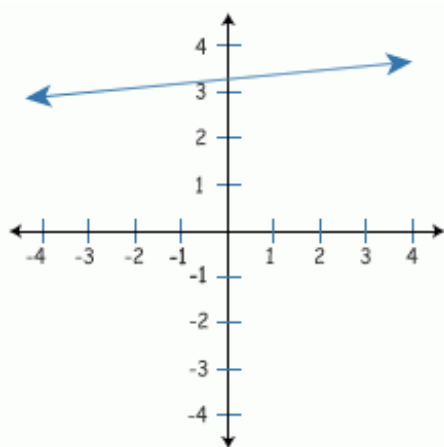
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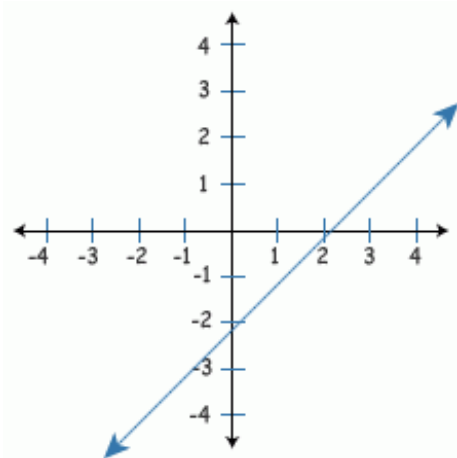
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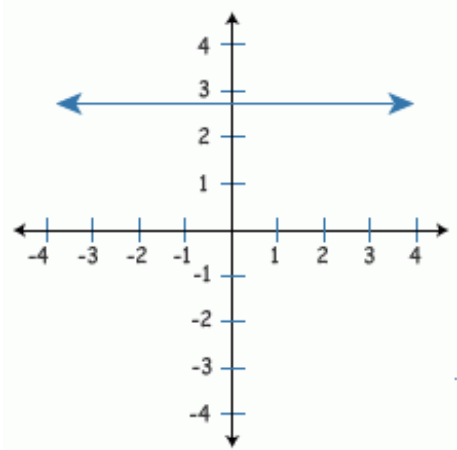
Question 10:

For which line is the slope **least**?

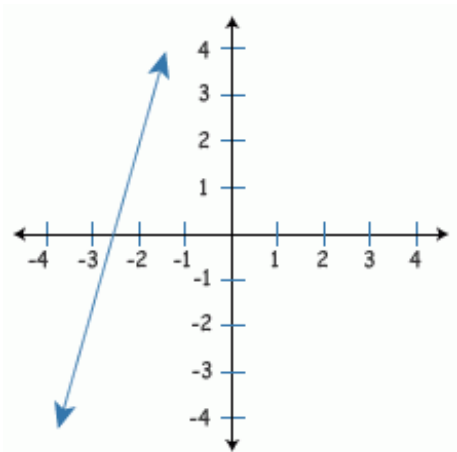
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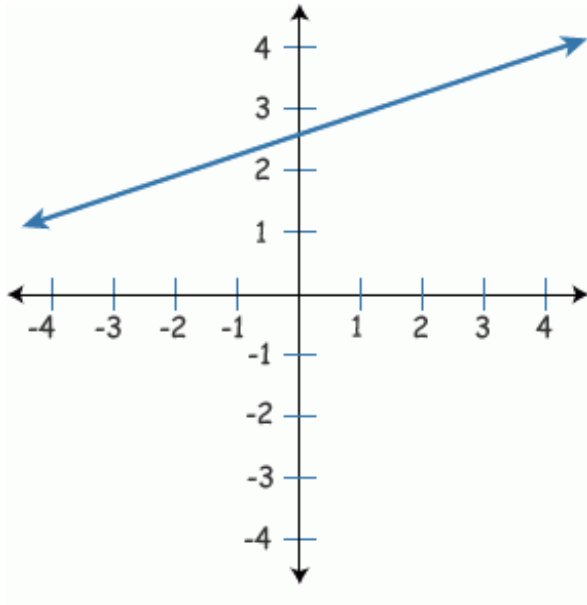


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Lesson Topic: Identify positive and negative slope on a graph

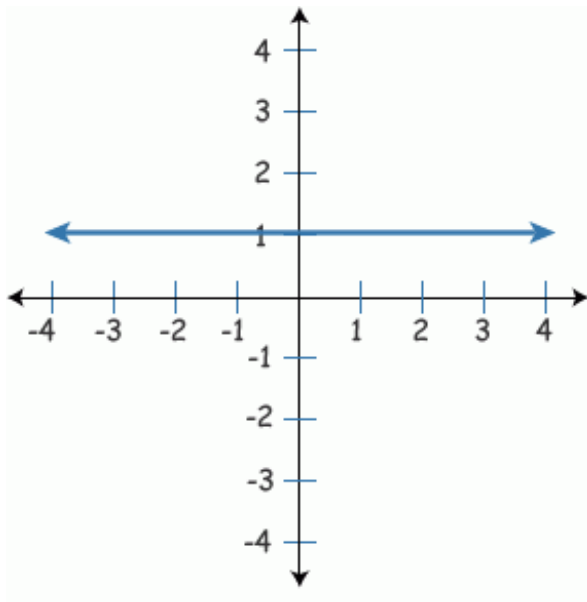
Question 1:



The slope of the line shown above _____.

- ☐ is positive
- ☐ is negative
- ☐ is 0
- ☐ does not exist

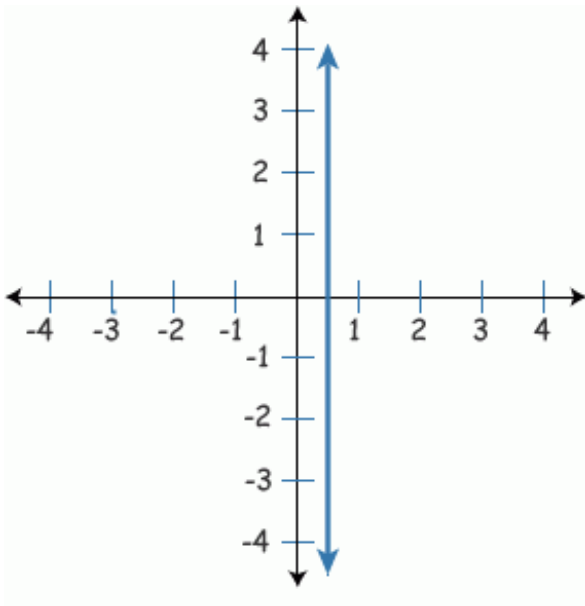
Question 2:



The slope of the line shown above _____.

- ☐ is positive
- ☐ is negative
- ☐ is 0
- ☐ does not exist

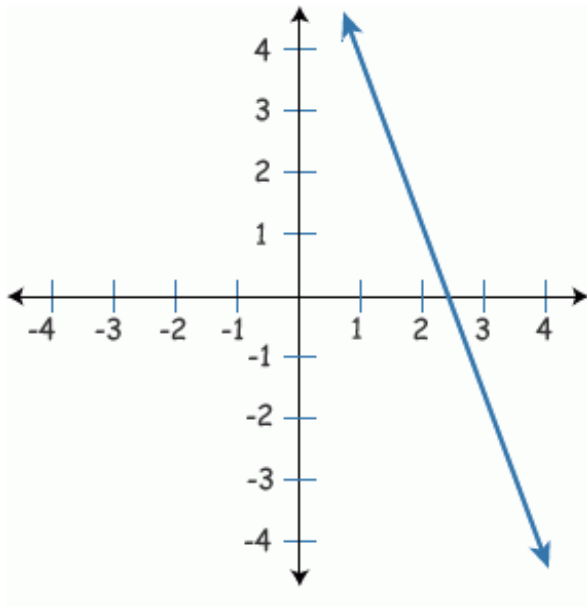
Question 3:



The slope of the line shown above _____.

- ☐ is positive
- ☐ is negative
- ☐ is 0
- ☐ does not exist

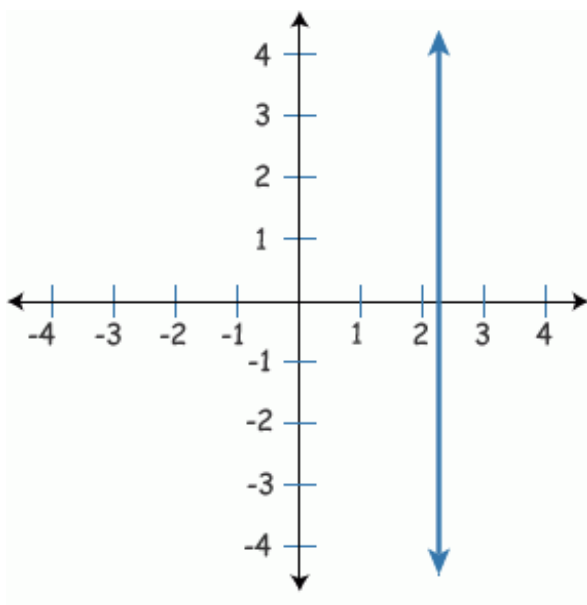
Question 4:



The slope of the line shown above _____.

- ☐ is positive
- ☐ is negative
- ☐ is 0
- ☐ does not exist

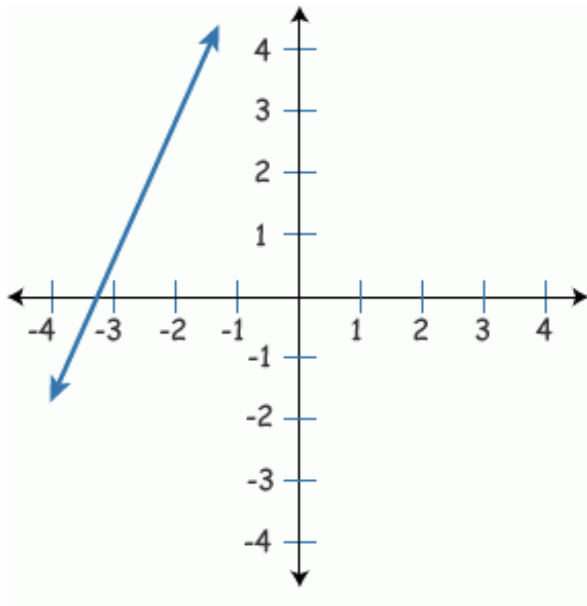
Question 5:



The slope of the line shown above _____.

- ☐ is positive
- ☐ is negative
- ☐ is 0
- ☐ does not exist

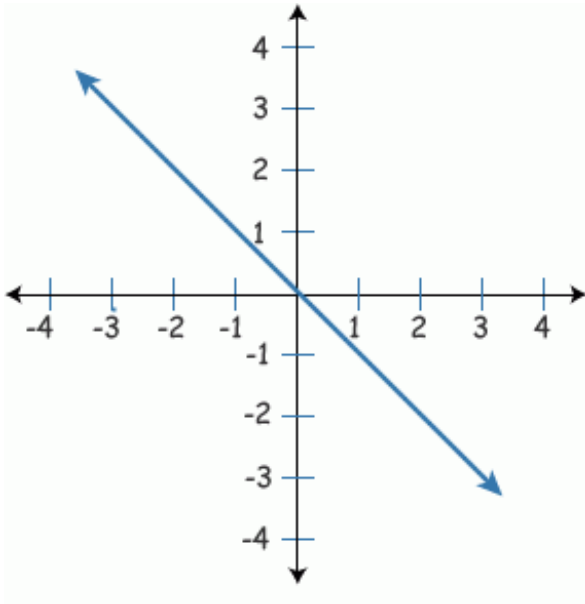
Question 6:



The slope of the line shown above _____.

- ☐ is positive
- ☐ is negative
- ☐ is 0
- ☐ does not exist

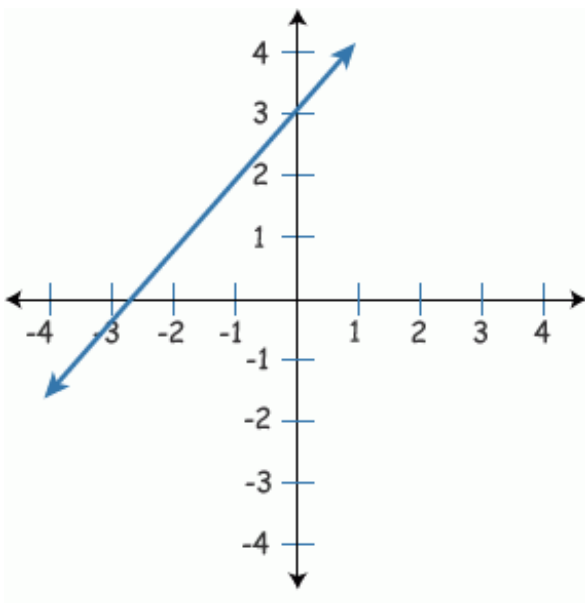
Question 7:



The slope of the line shown above _____.

- ☐ is positive
- ☐ is negative
- ☐ is 0
- ☐ does not exist

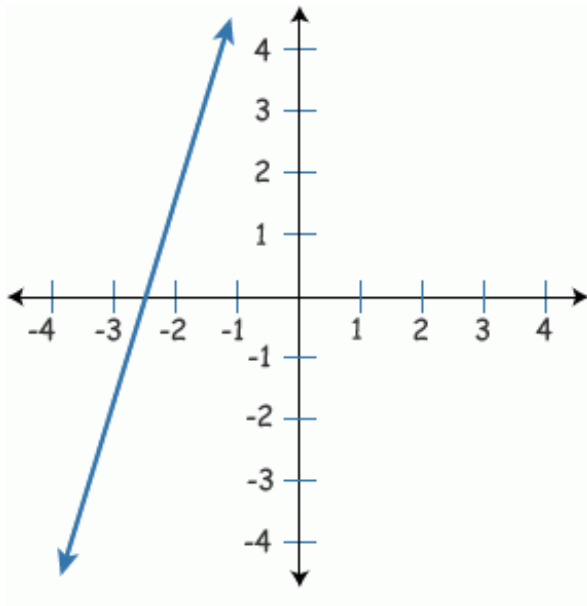
Question 8:



The slope of the line shown above _____.

- ☐ is positive
- ☐ is negative
- ☐ is 0
- ☐ does not exist

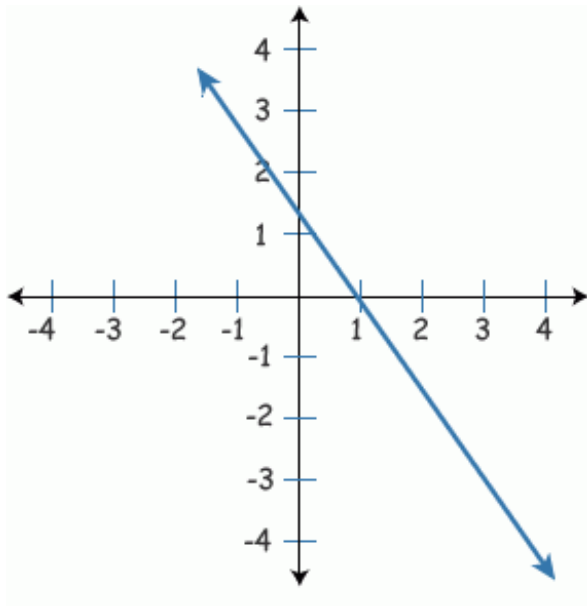
Question 9:



The slope of the line shown above _____.

- ☐ is positive
- ☐ is negative
- ☐ is 0
- ☐ does not exist

Question 10:

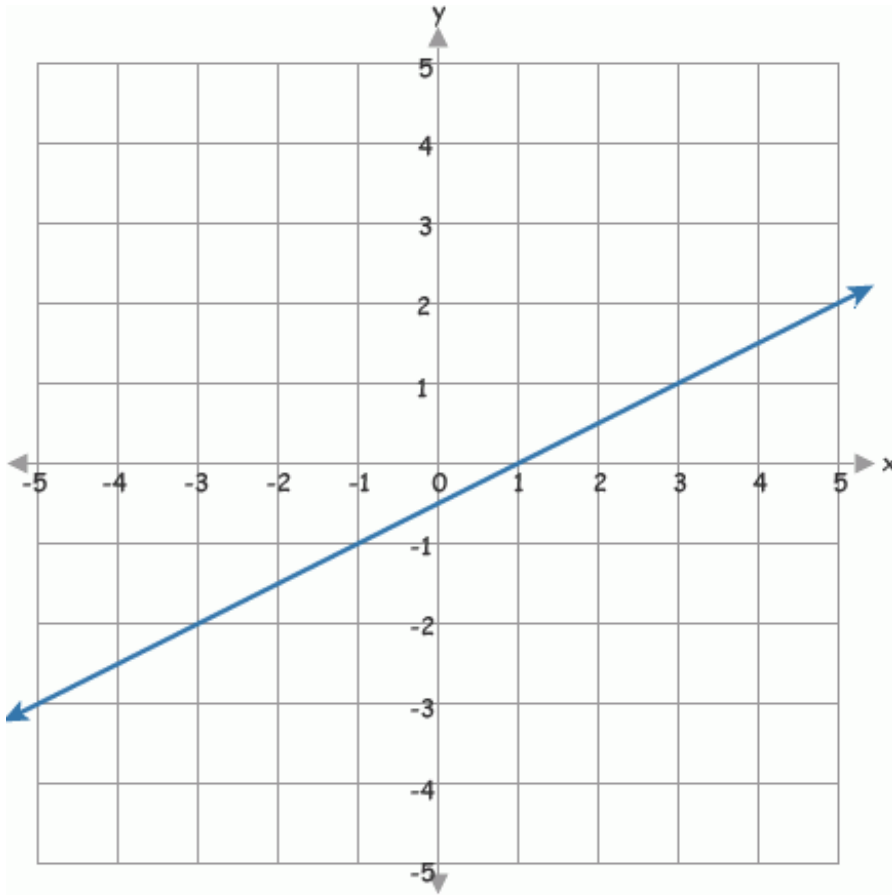


The slope of the line shown above _____.

- ☐ is positive
- ☐ is negative
- ☐ is 0
- ☐ does not exist

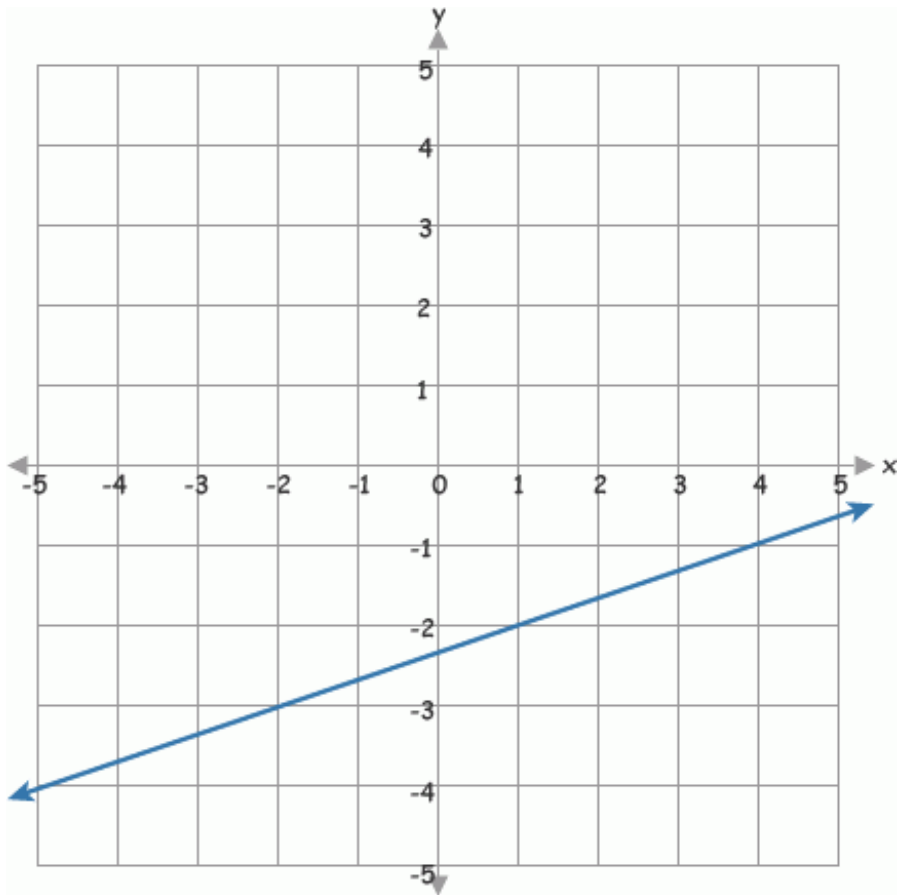
Lesson Topic: Find the positive slope of a line on a graph Part 1

Question 1:



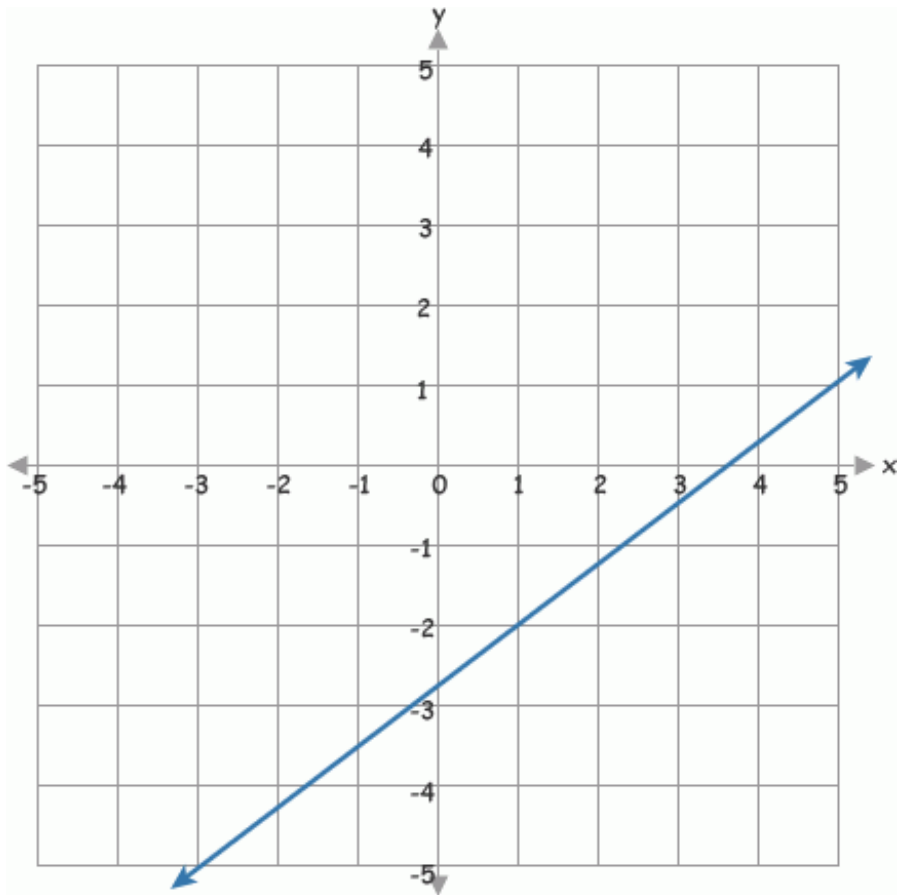
What is the slope of the line shown above?

Question 2:



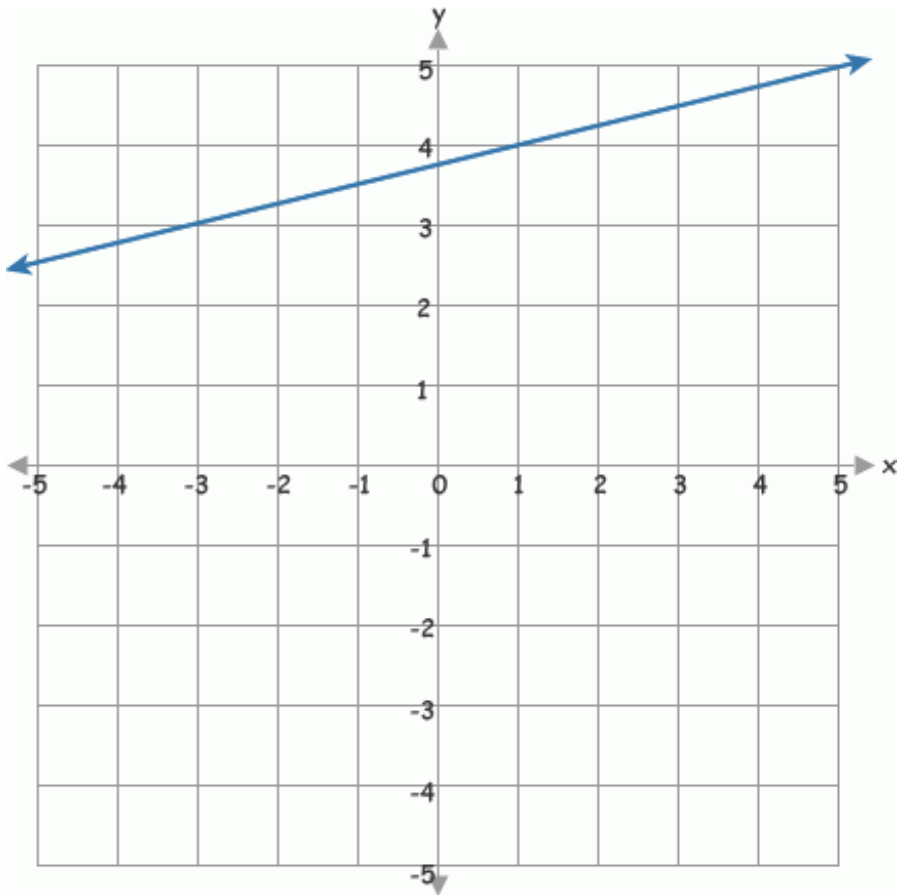
What is the slope of the line shown above?

Question 3:



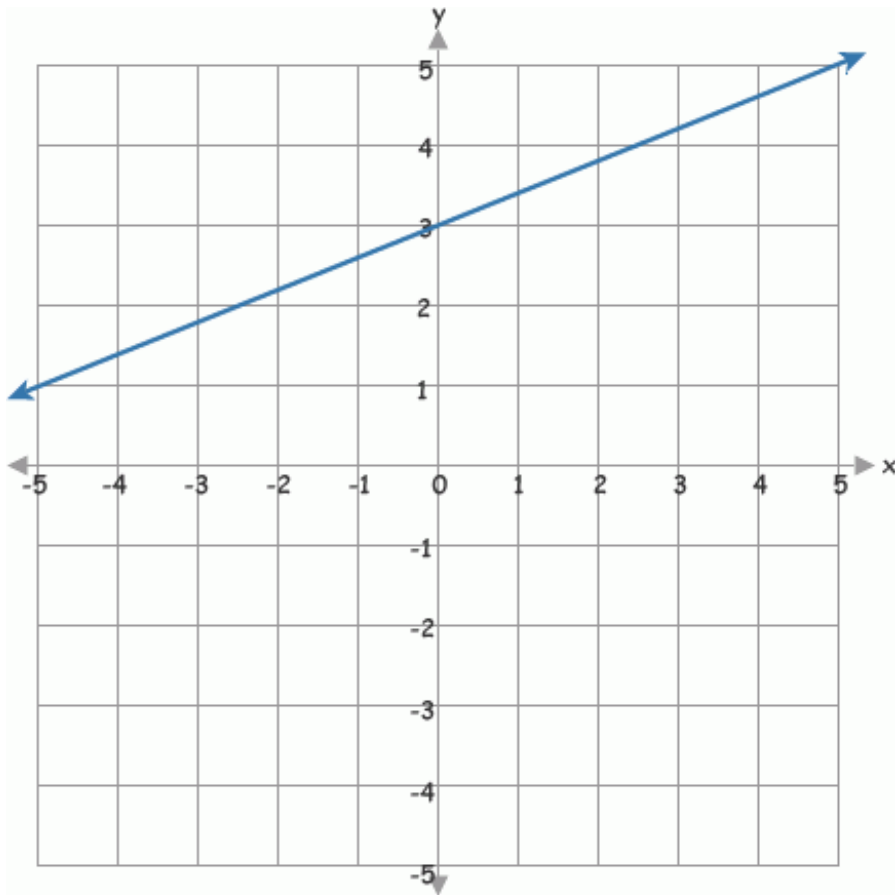
What is the slope of the line shown above?

Question 4:



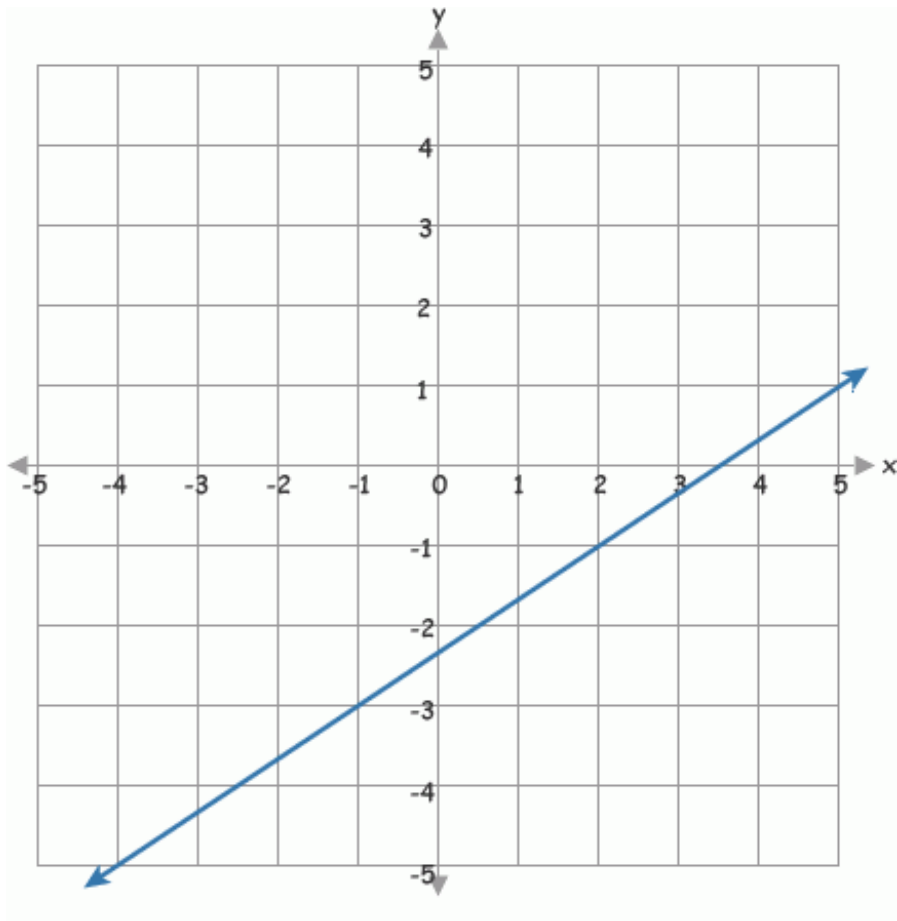
What is the slope of the line shown above?

Question 5:



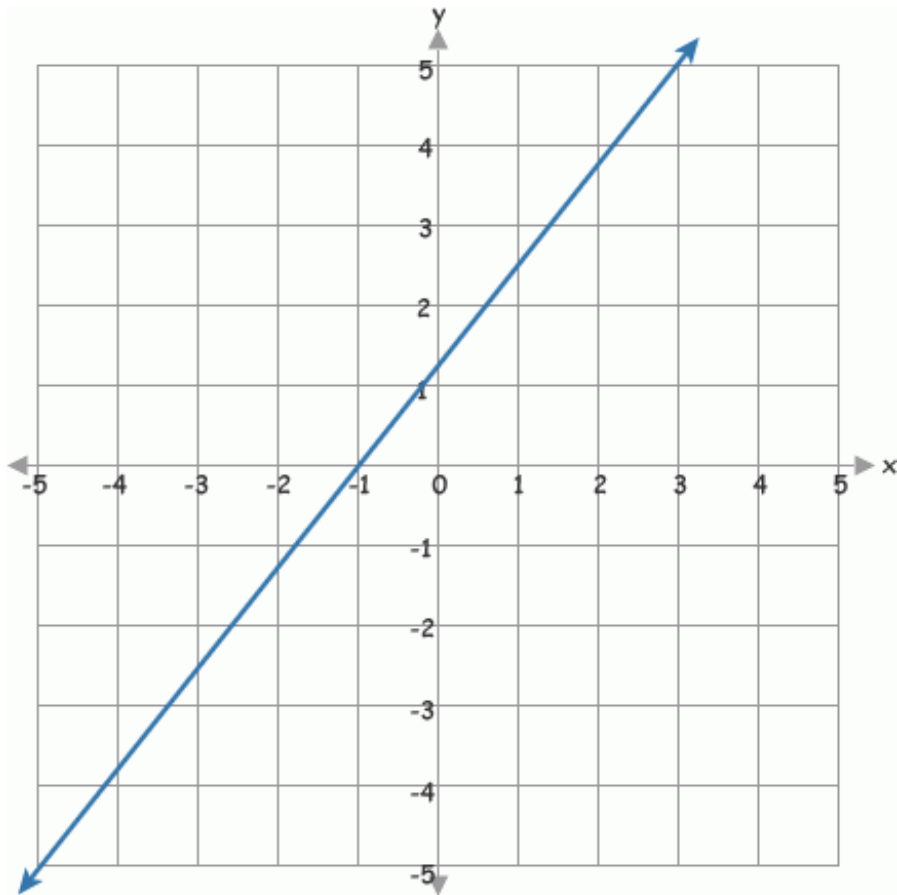
What is the slope of the line shown above?

Question 6:



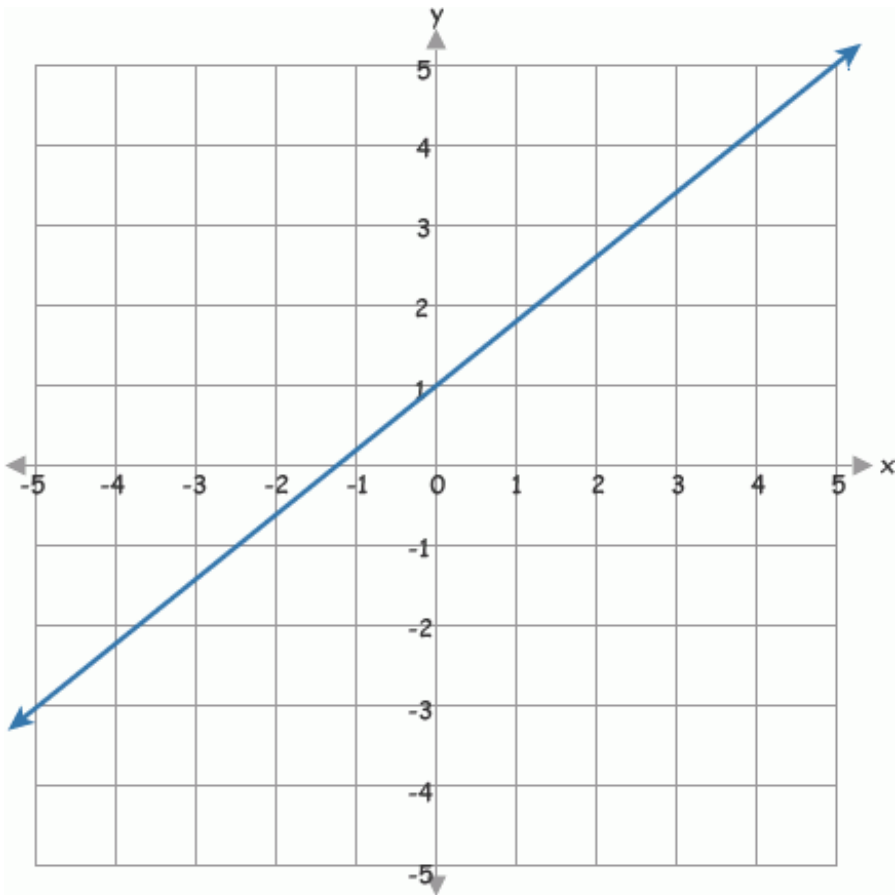
What is the slope of the line shown above?

Question 7:



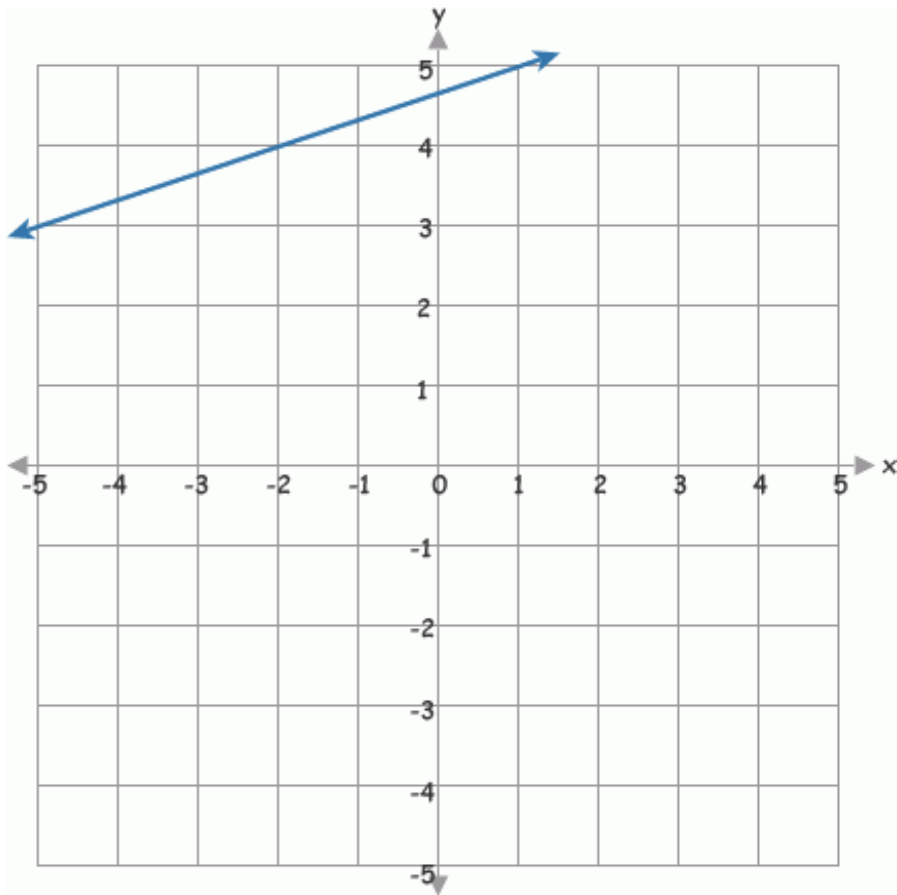
What is the slope of the line shown above?

Question 8:



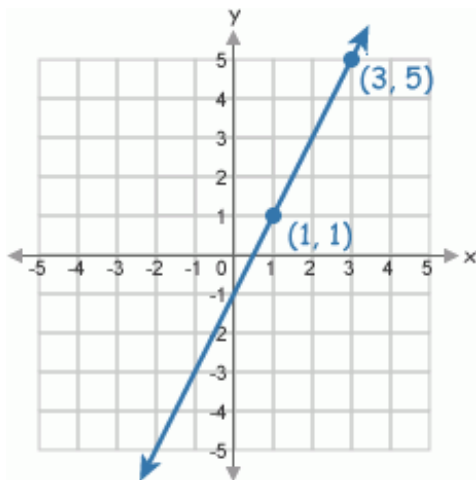
What is the slope of the line shown above?

Question 9:



What is the slope of the line shown above?

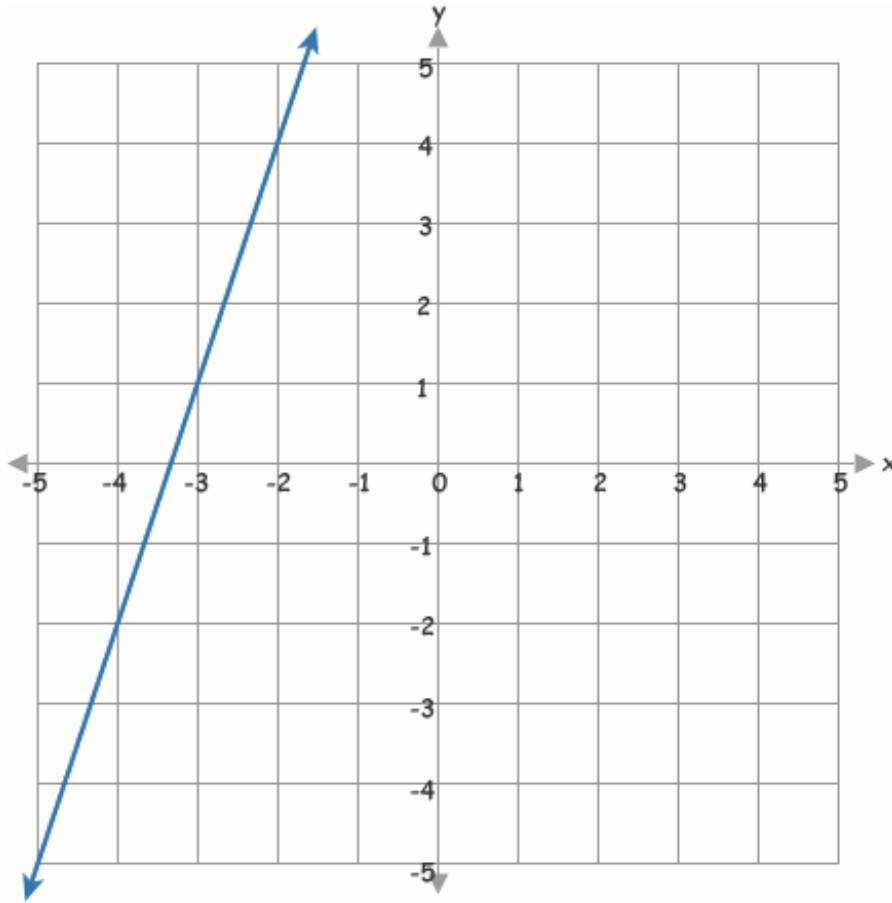
Question 10:



What is the slope of the line shown above?

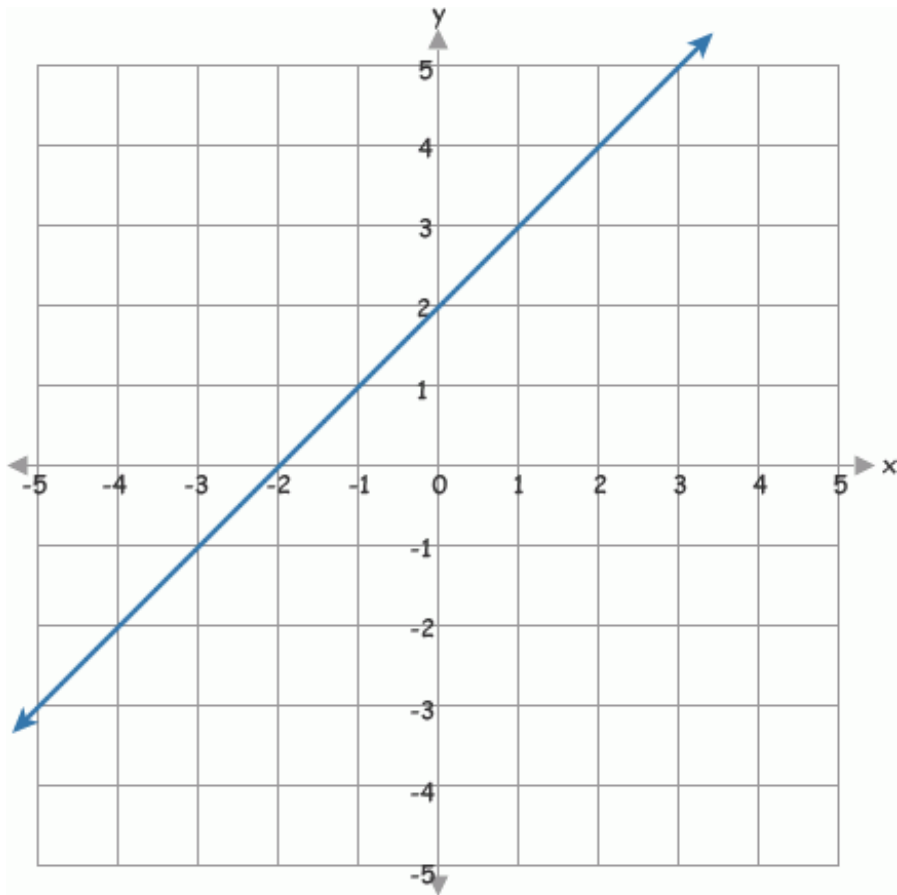
Lesson Topic: Find the positive slope of a line on a graph Part 2

Question 1:



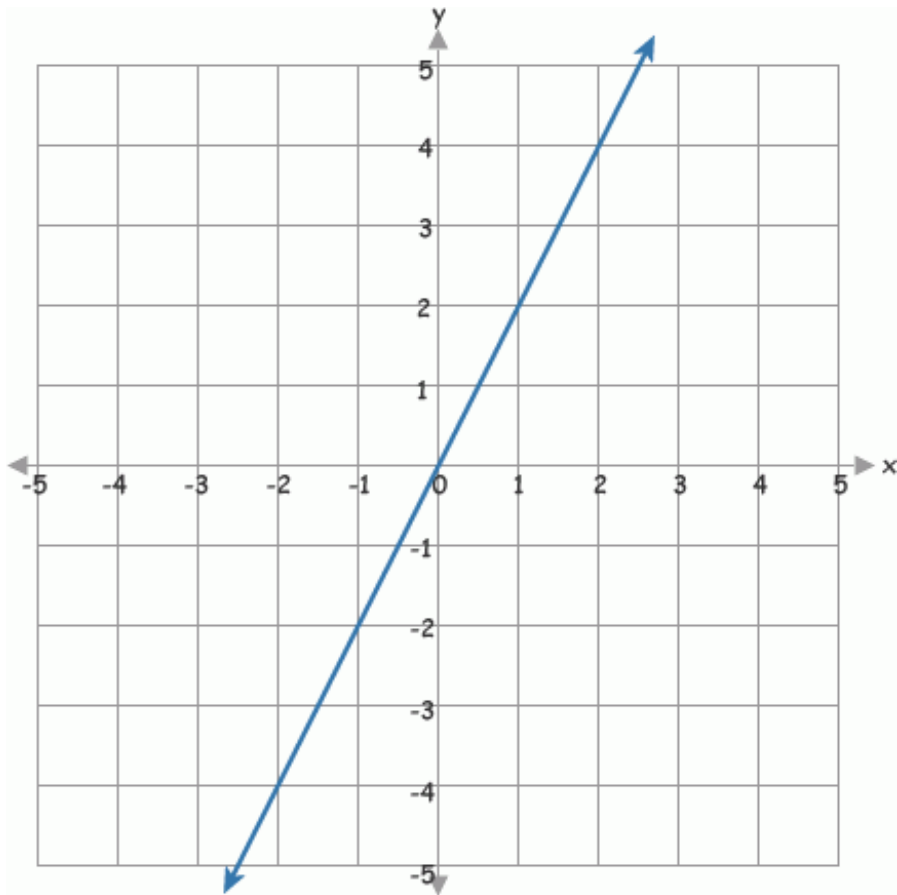
What is the slope of the line shown above?

Question 2:



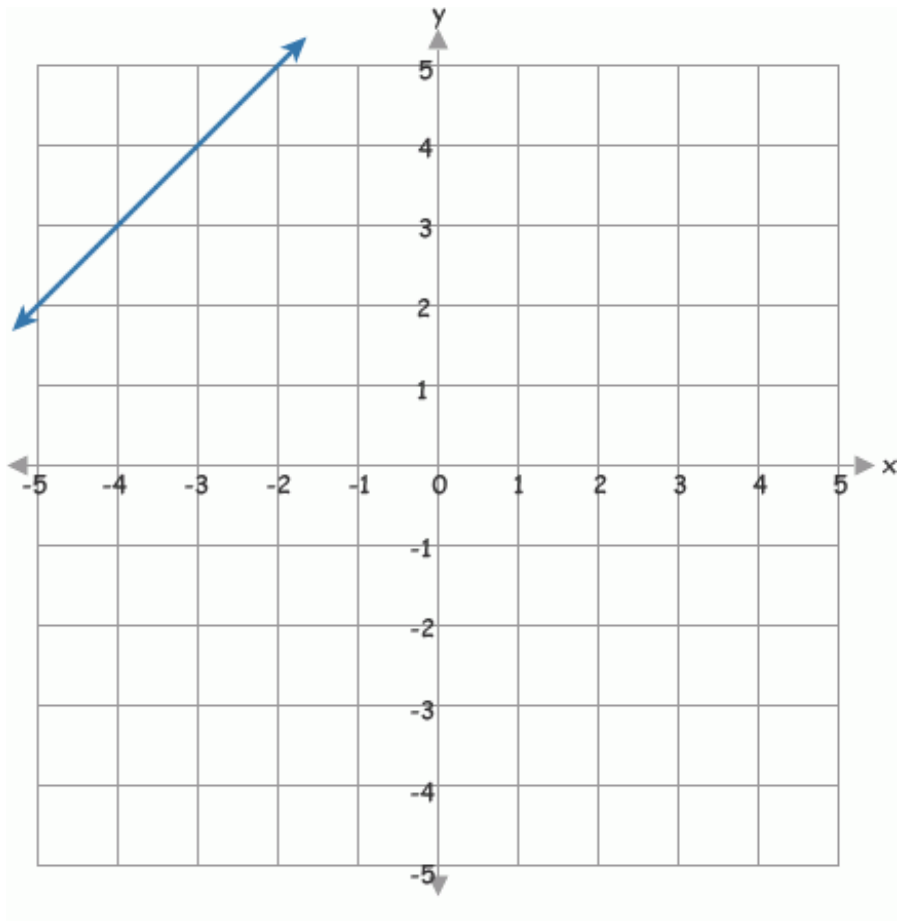
What is the slope of the line shown above?

Question 3:



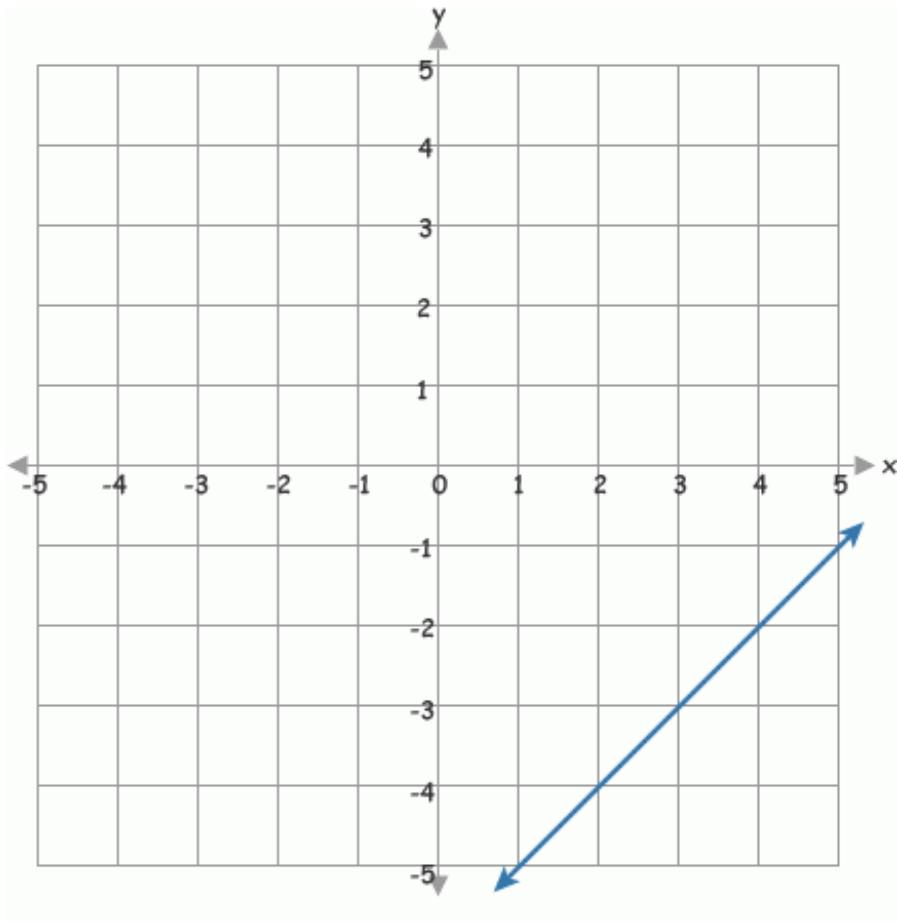
What is the slope of the line shown above?

Question 4:



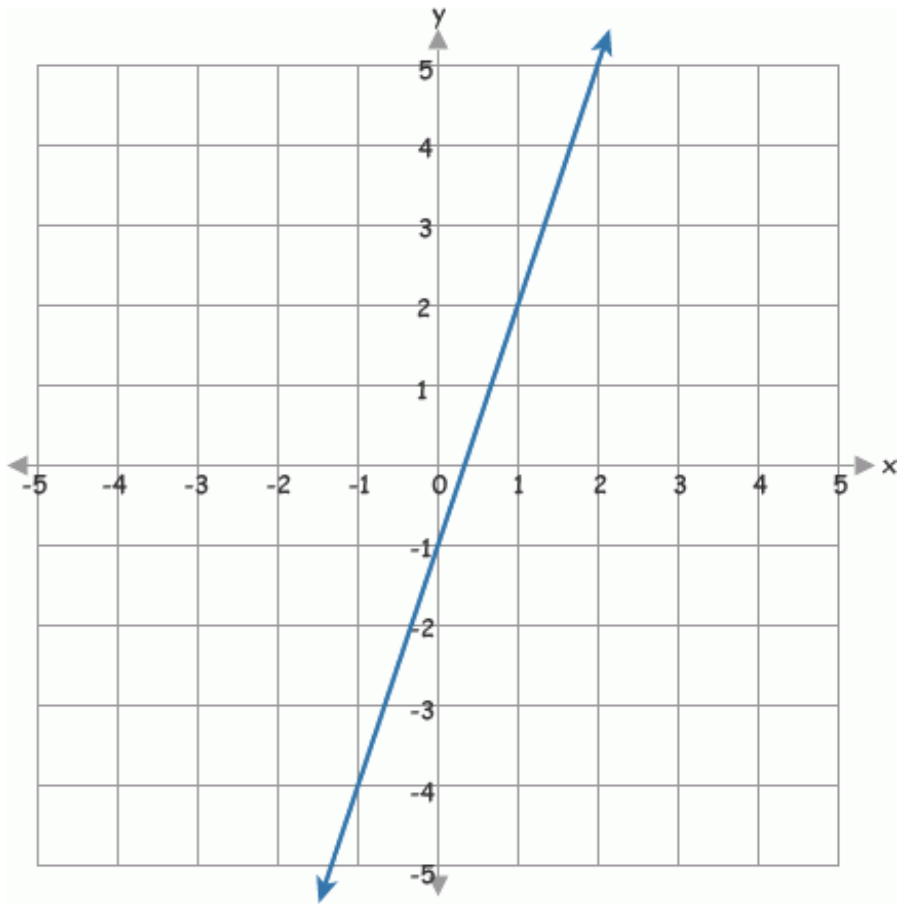
What is the slope of the line shown above?

Question 5:



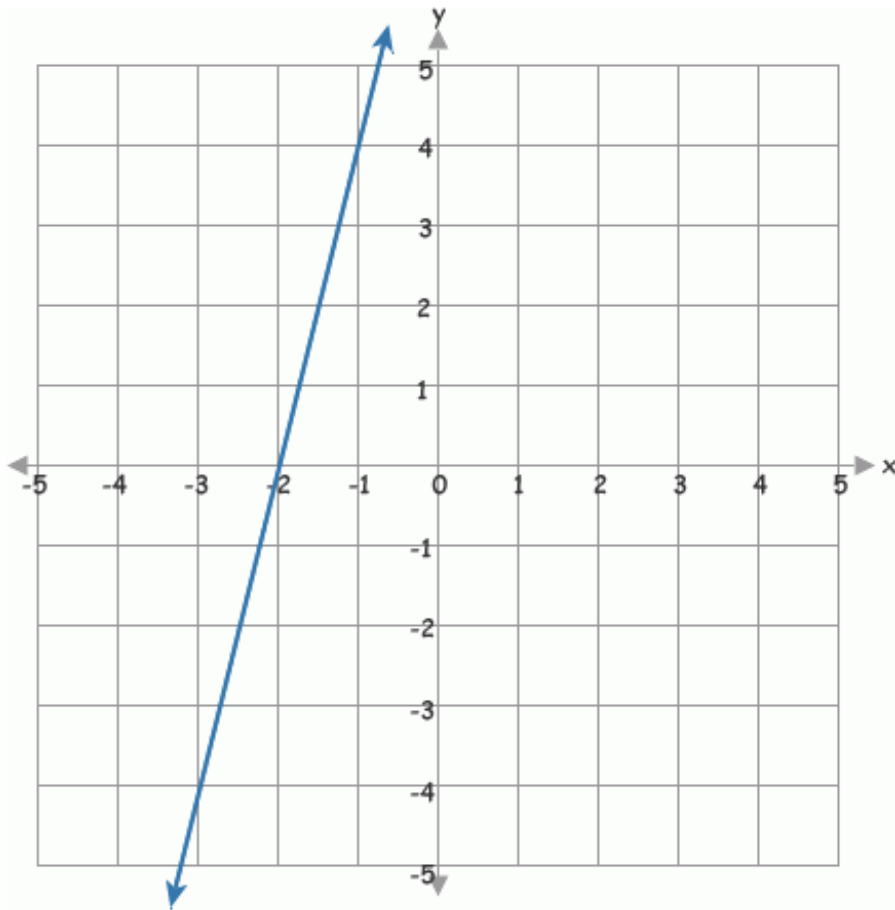
What is the slope of the line shown above?

Question 6:



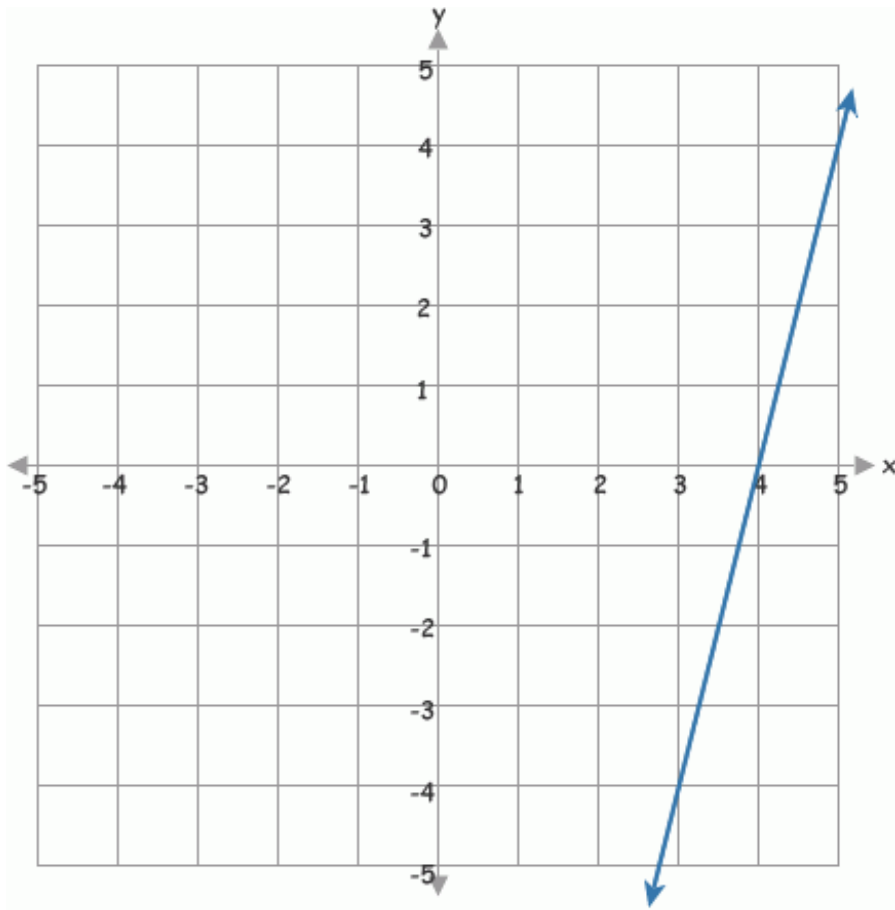
What is the slope of the line shown above?

Question 7:



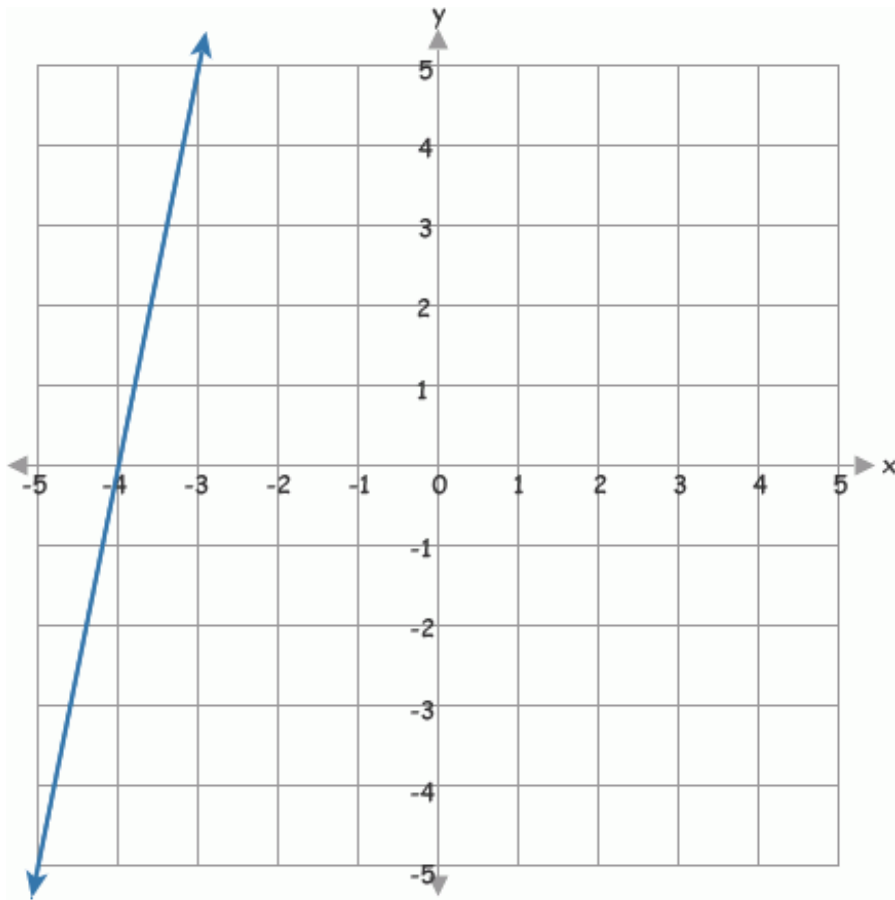
What is the slope of the line shown above?

Question 8:



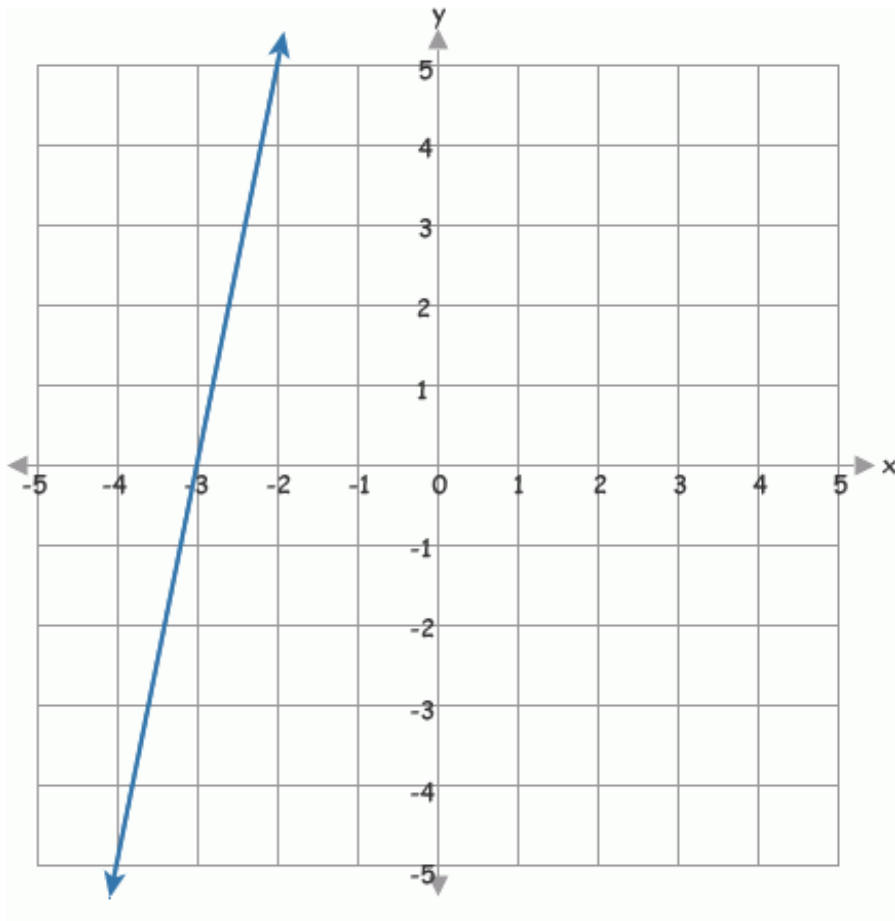
What is the slope of the line shown above?

Question 9:



What is the slope of the line shown above?

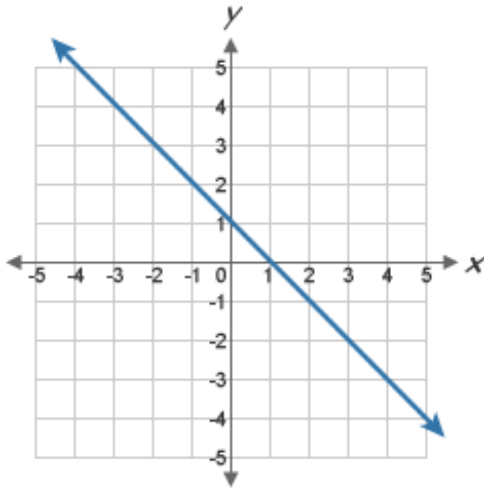
Question 10:



What is the slope of the line shown above?

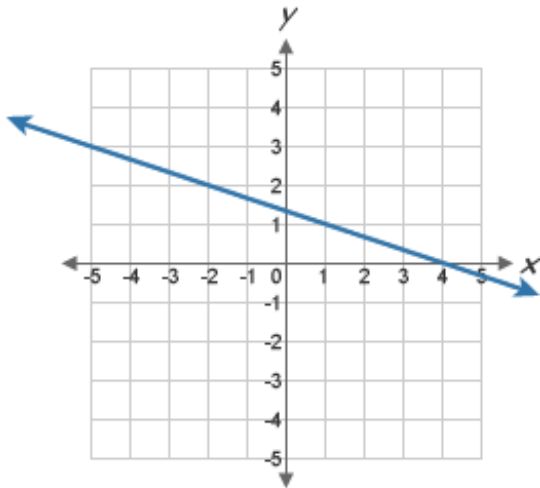
Lesson Topic: Find the negative slope of a line on a graph Part 1

Question 1:



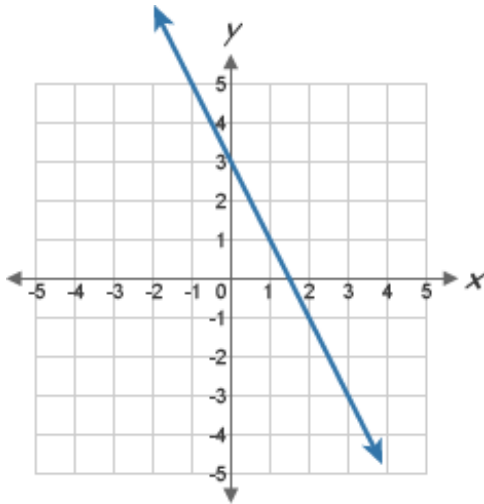
What is the slope of the line?

Question 2:



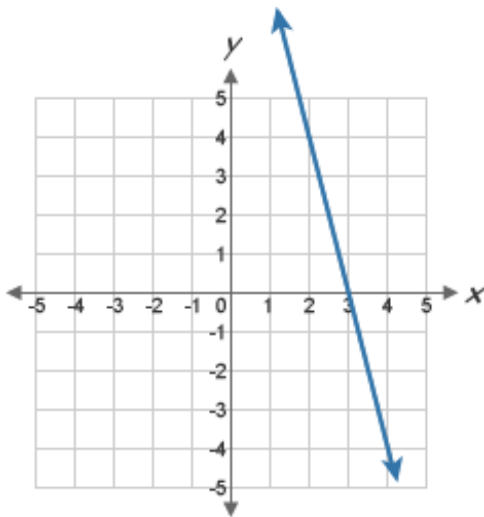
What is the slope of the line?

Question 3:



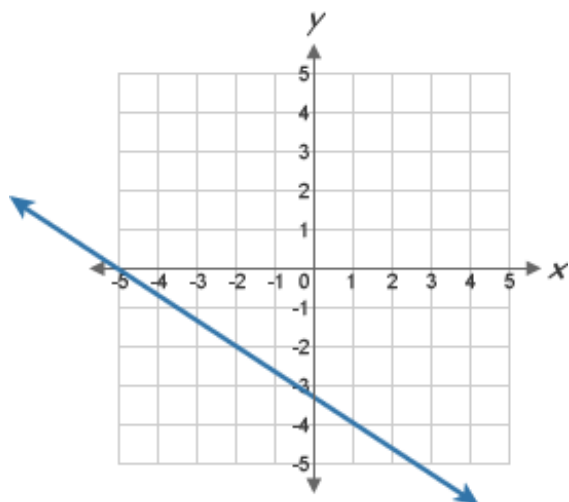
What is the slope of the line?

Question 4:



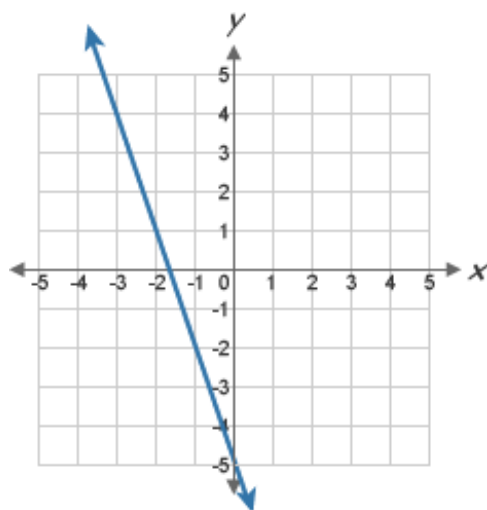
What is the slope of the line?

Question 5:



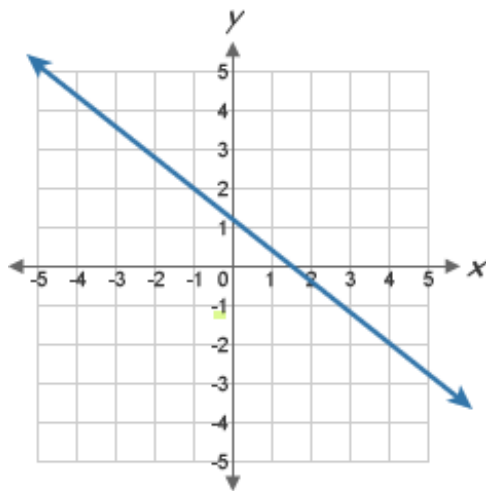
What is the slope of the line?

Question 6:



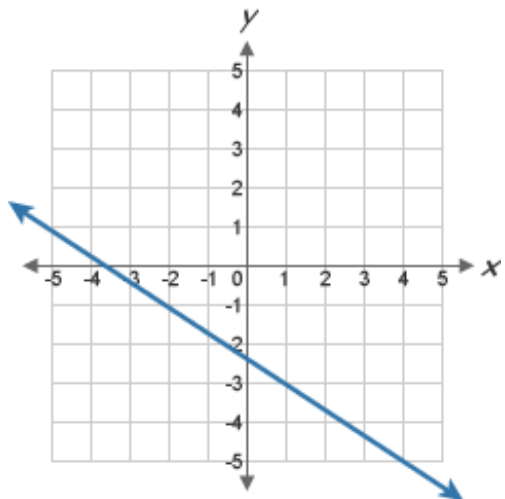
What is the slope of the line?

Question 7:



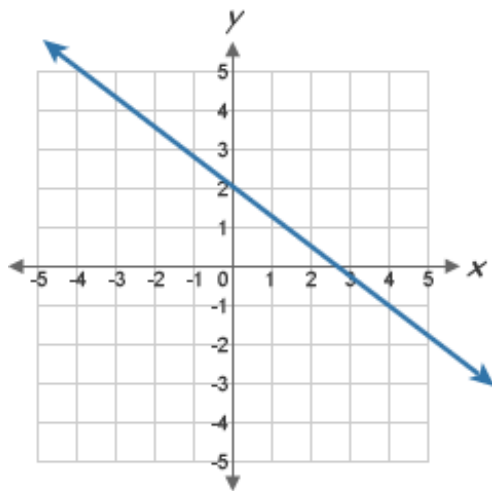
What is the slope of the line?

Question 8:



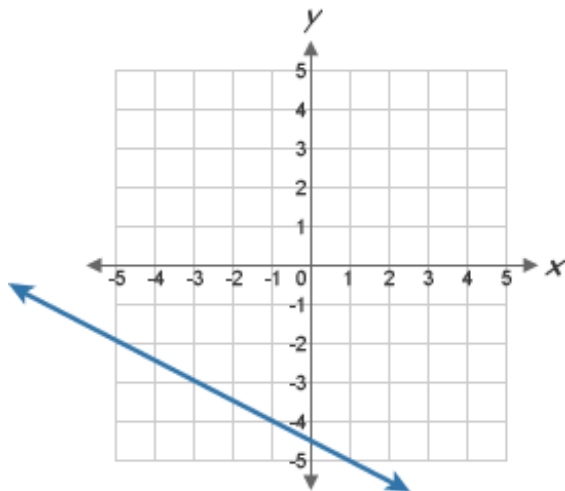
What is the slope of the line?

Question 9:



What is the slope of the line?

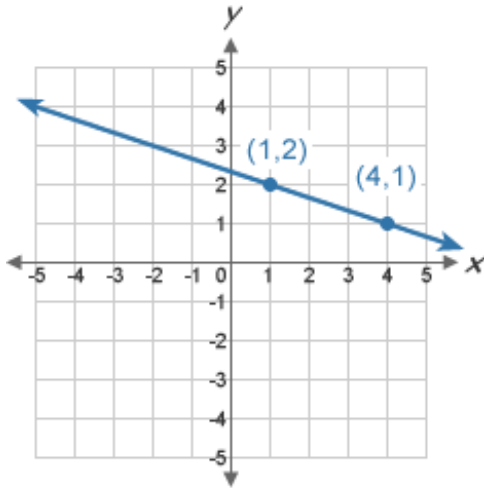
Question 10:



What is the slope of the line?

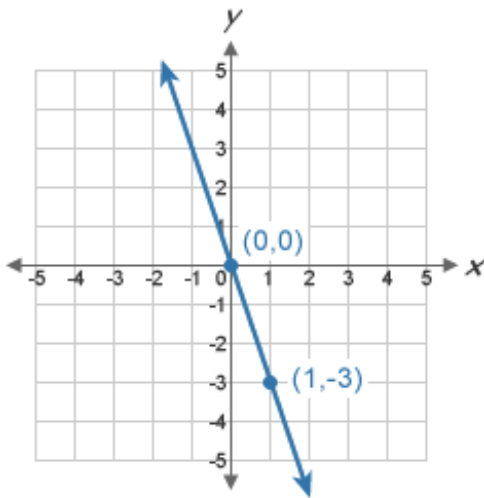
Lesson Topic: Find the negative slope of a line on a graph Part 2

Question 1:



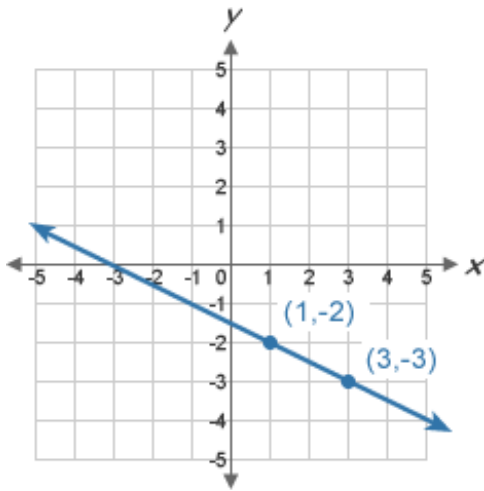
What is the slope of the line shown above?

Question 2:



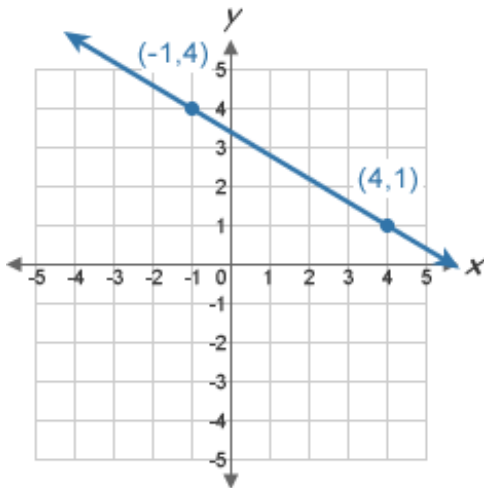
What is the slope of the line shown above?

Question 3:



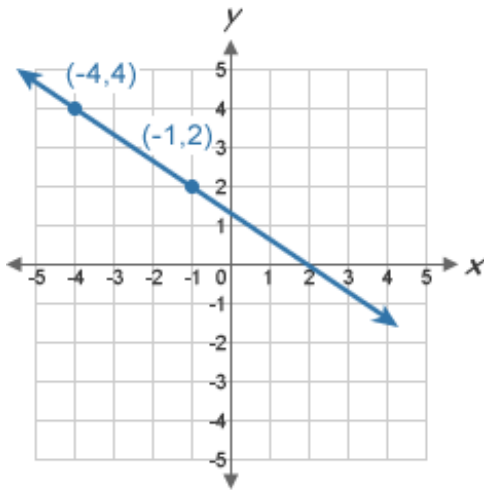
What is the slope of the line shown above?

Question 4:



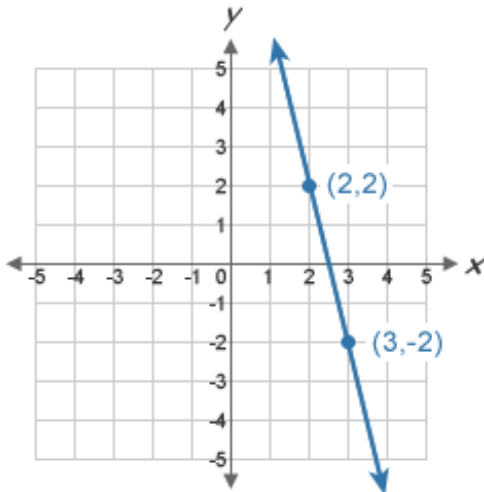
What is the slope of the line shown above?

Question 5:



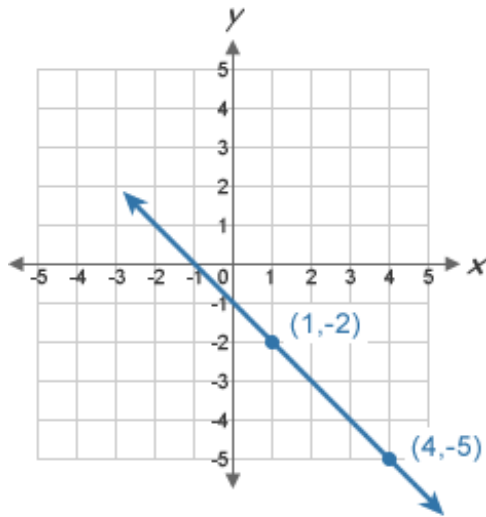
What is the slope of the line shown above?

Question 6:



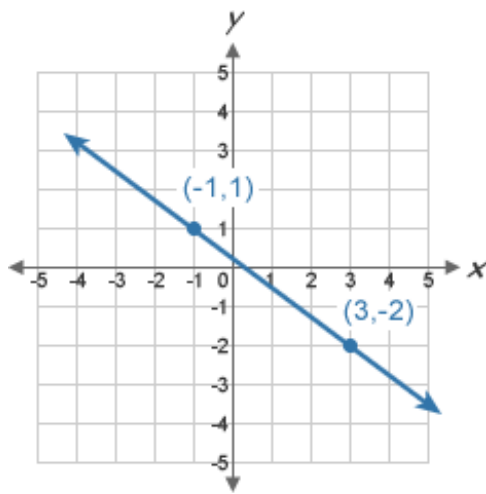
What is the slope of the line shown above?

Question 7:



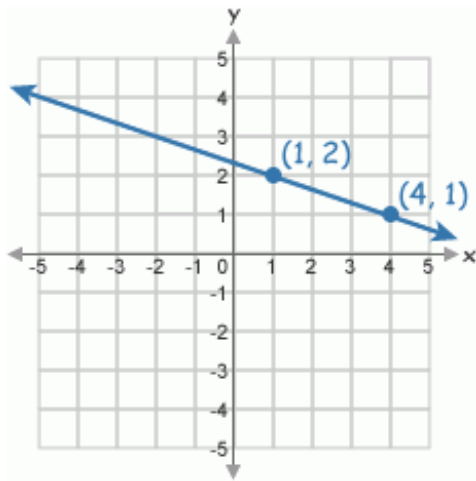
What is the slope of the line shown above?

Question 8:



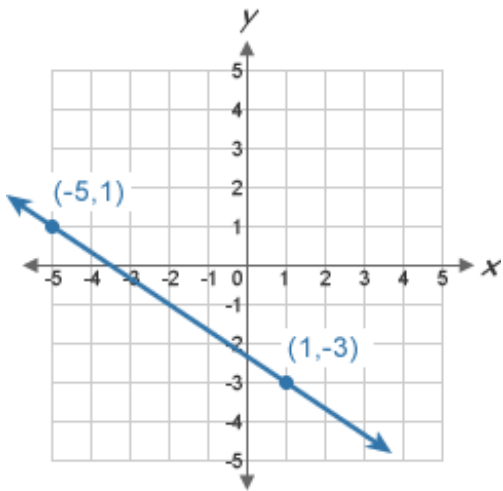
What is the slope of the line shown above?

Question 9:



What is the slope of the line shown above?

Question 10:

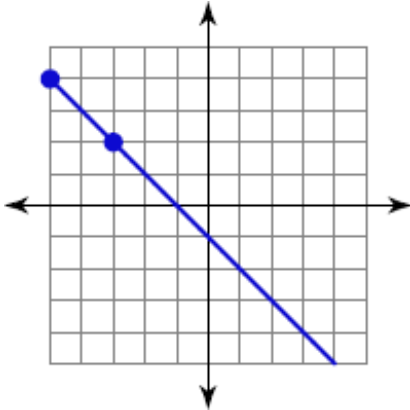


What is the slope of the line shown above?

Lesson Topic: Find positive and negative slopes of a line on a graph

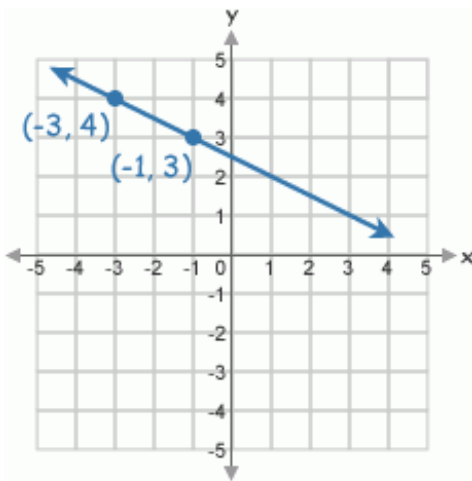
Question 1:

Find the slope of the line graphed below.



- ☐ 5
- ☐ 1
- ☐ -1
- ☐ -5

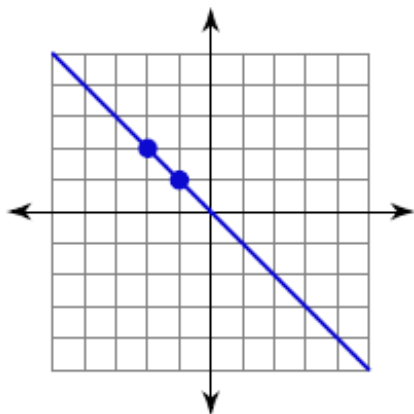
Question 2:



What is the slope of the line shown above?

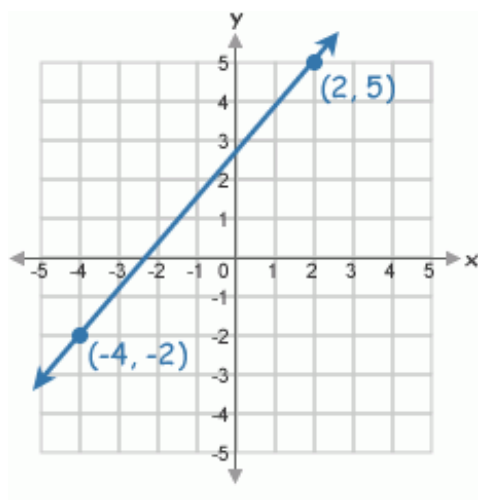
Question 3:

Find the slope of the line graphed below.



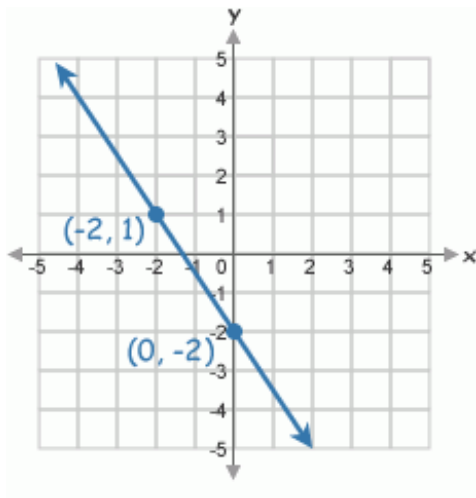
- ☐ 1
- ☐ -1
- ☐ $-\frac{1}{2}$
- ☐ $\frac{1}{2}$

Question 4:



What is the slope of the line shown above?

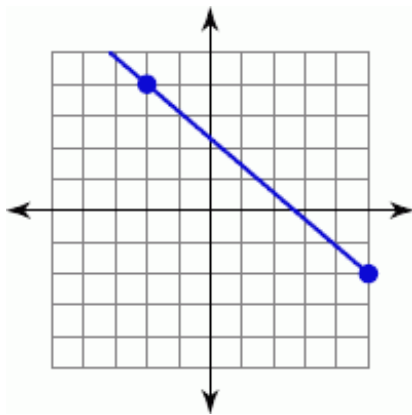
Question 5:



What is the slope of the line shown above?

Question 6:

Find the slope of the line graphed below.



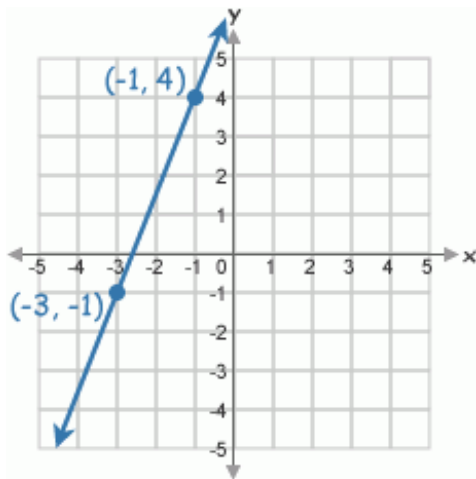
☐ $\frac{7}{6}$

☐ $-\frac{7}{6}$

☐ $-\frac{6}{7}$

☐ $\frac{6}{7}$

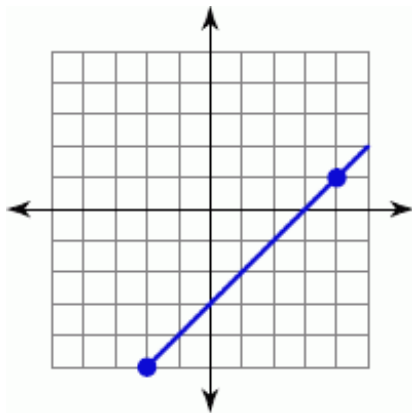
Question 7:



What is the slope of the line shown above?

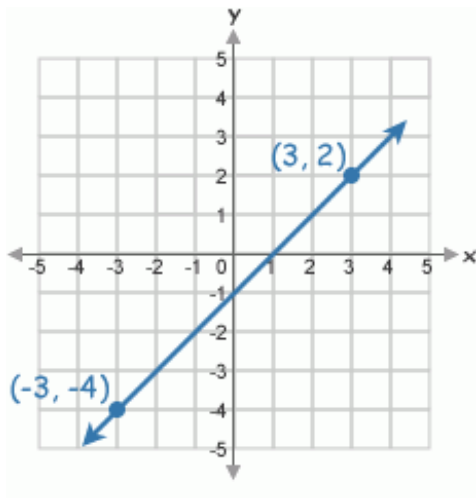
Question 8:

Find the slope of the line graphed below.



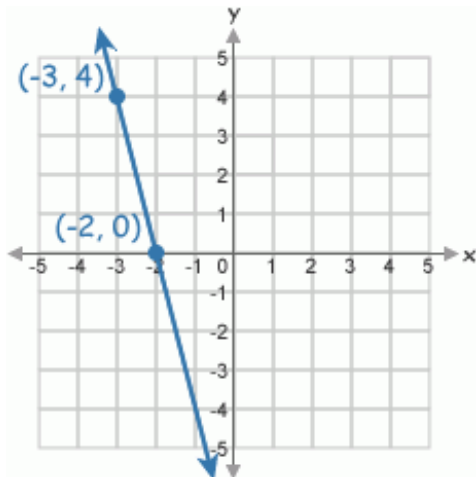
- ☐ -1
- ☐ $-\frac{1}{2}$
- ☐ 1
- ☐ $\frac{1}{2}$

Question 9:



What is the slope of the line shown above?

Question 10:



What is the slope of the line shown above?

Lesson Topic: Find slope and intercept in an equation Part 1

Question 1:

Find the slope and y-intercept of the following equation:

$$y = x + 2$$

The **slope** of the equation is .

The **y-intercept** of the equation is .

Question 2:

Find the slope and y-intercept of the following equation:

$$y = 6x + 5$$

The **slope** of the equation is .

The **y-intercept** of the equation is .

Question 3:

Find the slope and y-intercept of the following equation:

$$y = x + 8$$

The **slope** of the equation is .

The **y-intercept** of the equation is .

Question 4:

Find the slope and y-intercept of the following equation:

$$y = 7x + 9$$

The **slope** of the equation is .

The **y-intercept** of the equation is .

Question 5:

Find the slope and y-intercept of the following equation:

$$y = 2x + 11$$

The **slope** of the equation is .

The **y-intercept** of the equation is .

Question 6:

Find the slope and y-intercept of the following equation:

$$y = 2x + 5$$

The **slope** of the equation is .

The **y-intercept** of the equation is .

Question 7:

Find the slope and y-intercept of the following equation:

$$y = \left(\frac{1}{4}\right)x + 1$$

The **slope** of the equation is .

The **y-intercept** of the equation is .

Question 8:

Find the slope and y-intercept of the following equation:

$$y = \left(\frac{7}{8}\right)x + 4$$

The **slope** of the equation is .

The **y-intercept** of the equation is .

Question 9:

Find the slope and y-intercept of the following equation:

$$y = 5x + 5$$

The **slope** of the equation is .

The **y-intercept** of the equation is .

Question 10:

Find the slope and y-intercept of the following equation:

$$y = 5x + 4$$

The **slope** of the equation is .

The **y-intercept** of the equation is .

Lesson Topic: Find slope and intercept in an equation Part 2

Question 1:

Find the slope and y-intercept of the following equation:

$$y = -3x - 1$$

The **slope** of the equation is .

The **y-intercept** of the equation is .

Question 2:

Find the slope and y-intercept of the following equation:

$$y = -x - 7$$

The **slope** of the equation is .

The **y-intercept** of the equation is .

Question 3:

Find the slope and y-intercept of the following equation:

$$y = -x - 10$$

The **slope** of the equation is .

The **y-intercept** of the equation is .

Question 4:

Find the slope and y-intercept of the following equation:

$$y = -2x - 4$$

The **slope** of the equation is .

The **y-intercept** of the equation is .

Question 5:

Find the slope and y-intercept of the following equation:

$$y = -4x - 1$$

The **slope** of the equation is .

The **y-intercept** of the equation is .

Question 6:

Find the slope and y-intercept of the following equation:

$$y = -(1/5)x - 2$$

The **slope** of the equation is .

The **y-intercept** of the equation is .

Question 7:

Find the slope and y-intercept of the following equation:

$$y = -(1/2)x - 9$$

The **slope** of the equation is .

The **y-intercept** of the equation is .

Question 8:

Find the slope and y-intercept of the following equation:

$$y = -(3/8)x - 1$$

The **slope** of the equation is .

The **y-intercept** of the equation is .

Question 9:

Find the slope and y-intercept of the following equation:

$$y = -(3/2)x - 3$$

The **slope** of the equation is .

The **y-intercept** of the equation is .

Question 10:

Find the slope and y-intercept of the following equation:

$$y = -4x - 5$$

The **slope** of the equation is .

The **y-intercept** of the equation is .

Lesson Topic: Find slope and intercept in an equation Part 3

Question 1:

Find the slope and y-intercept of the following equation:

$$y = 3x - 1$$

The **slope** of the equation is .

The **y-intercept** of the equation is .

Question 2:

Find the slope and y-intercept of the following equation:

$$y = -2x + 6$$

The **slope** of the equation is .

The **y-intercept** of the equation is .

Question 3:

Find the slope and y-intercept of the following equation:

$$y = x - 3$$

The **slope** of the equation is .

The **y-intercept** of the equation is .

Question 4:

Find the slope and y-intercept of the following equation:

$$y = -5x + 10$$

The **slope** of the equation is .

The **y-intercept** of the equation is .

Question 5:

Find the slope and y-intercept of the following equation:

$$y = -x + 4$$

The **slope** of the equation is .

The **y-intercept** of the equation is .

Question 6:

Find the slope and y-intercept of the following equation:

$$y = (\frac{3}{4})x - 5$$

The **slope** of the equation is .

The **y-intercept** of the equation is .

Question 7:

Find the slope and y-intercept of the following equation:

$$y = 6x - 1$$

The **slope** of the equation is .

The **y-intercept** of the equation is .

Question 8:

Find the slope and y-intercept of the following equation:

$$y = \left(\frac{1}{2}\right)x - 7$$

The **slope** of the equation is .

The **y-intercept** of the equation is .

Question 9:

Find the slope and y-intercept of the following equation:

$$y = -\left(\frac{1}{3}\right)x + 8$$

The **slope** of the equation is .

The **y-intercept** of the equation is .

Question 10:

Find the slope and y-intercept of the following equation:

$$y = 8x - 9$$

The **slope** of the equation is .

The **y-intercept** of the equation is .

Lesson Topic: Write linear equations in slope-intercept form Part 1

Question 1:

Write an equation in slope-intercept form of a line with slope 3 and y-intercept $\frac{2}{3}$.

- ☐ $y = \frac{2}{3}$
- ☐ $y = \frac{2}{3}x + 1$
- ☐ $y = \frac{2}{3} + x$
- ☐ $y = 3x + \frac{2}{3}$
- ☐ none of the above

Question 2:

Write an equation in slope-intercept form of a line with slope 1.99 and y-intercept 5.

- ☐ $y = -1.99x$
- ☐ $y = 1.99 - x$
- ☐ $y = 1.99 + x$
- ☐ $y = 1.99$
- ☐ none of the above

Question 3:

Write an equation in slope-intercept form of a line with slope $\frac{1}{4}$ and y-intercept -2.

- ☐ $y = \frac{1}{5} + x + \frac{2}{3}$
- ☐ $y = \frac{1}{4}x - 2$

- ☐ $y = \frac{1}{5} - 3$
- ☐ $y = \frac{1}{5}x + \frac{2}{3}$
- ☐ none of the above

Question 4:

Write an equation in slope-intercept form of a line with slope -3.75 and y-intercept -8.

- ☐ $y = 8.99 - x$
- ☐ $y = -3.75x - 8$
- ☐ $y = -3.75x + 10$
- ☐ $y = -8x + 4.$
- ☐ none of the above

Question 5:

Write an equation in slope-intercept form of a line with slope -2 and y-intercept 3.5.

- ☐ $y = -2x + 3.5$
- ☐ $y = -5x + 3.5$
- ☐ $y = -4x + 3$
- ☐ $y = 3.5x + 2$
- ☐ none of the above

Question 6:

Write an equation in slope-intercept form of a line with slope $8\frac{1}{5}$ and y-intercept 2.

- ☐ $y = 8\frac{1}{5}x + 2$

- ☐ $y = 8 \frac{1}{5}$
- ☐ $y = 8 \frac{1}{5} - 3x$
- ☐ $y = 2 \frac{1}{5} + x$
- ☐ none of the above

Question 7:

Write an equation in slope-intercept form of a line with slope $\frac{3}{4}$ and y-intercept 1.

- ☐ $y = x - 2 \frac{3}{4}$
- ☐ $y = 2 \frac{3}{4} x$
- ☐ $y = x + 2 \frac{3}{4}$
- ☐ $y = \frac{3}{4} x + 1$
- ☐ none of the above

Question 8:

Write an equation in slope-intercept form of a line with slope -3 and y-intercept $\frac{2}{5}$.

- ☐ $y = -3x + \frac{2}{5}$
- ☐ $y = 2 \frac{3}{4} x$
- ☐ $y = \frac{2}{5} x + 3$
- ☐ $y = 3x + 2 \frac{1}{4}$
- ☐ none of the above

Question 9:

Write an equation, in slope-intercept form, of a line with a slope of $8 \frac{1}{5}$ and a y-intercept of 2.

- ☐ $y = 8 \frac{1}{5}$
- ☐ $y = 8 \frac{1}{5} - 3x$
- ☐ $y = 8 \frac{1}{5} x + 2$
- ☐ $y = 2 \frac{1}{5} + x$
- ☐ none of the above

Question 10:

Write an equation in slope-intercept form of a line with slope $\frac{1}{5}$ and y-intercept $\frac{2}{3}$.

- ☐ $y = \frac{1}{5} + x + \frac{2}{3}$
- ☐ $y = \frac{1}{5} - x$
- ☐ $y = \frac{1}{5} + \frac{2}{3} x$
- ☐ $y = \frac{1}{5} x + \frac{2}{3}$
- ☐ none of the above

Lesson Topic: Write linear equations in slope-intercept form Part 2

Question 1:

Write an equation for the line that passes through (4, -5) and (3, -2).

- ☐ $y = -3x - 7$
- ☐ $y = 3x + 7$
- ☐ $y = -3x + 7$
- ☐ $y = 3x - 7$
- ☐ none of the above

Question 2:

Write an equation for the line that passes through (-5, 4) and (-4, 2).

- ☐ $y = 2x - 6$
- ☐ $y = 2x + 6$
- ☐ $y = -2x + 6$
- ☐ $y = -2x - 6$
- ☐ none of the above

Question 3:

Write an equation for the line that passes through (2, 4) and (1, 0).

- ☐ $y = 4x + 4$
- ☐ $y = 4x - 4$
- ☐ $y = -4x + 4$
- ☐ $y = -4x - 4$
- ☐ none of the above

Question 4:

Write an equation for the line that passes through (5, 1) and (6, 3).

- ☐ $y = -2x - 9$
- ☐ $y = -2x + 9$
- ☐ $y = 2x - 9$
- ☐ $y = 2x + 9$
- ☐ none of the above

Question 5:

Write an equation for the line that passes through (4, 12) and (-8, -18).

- ☐ $y = 2x + \frac{5}{2}$
- ☐ $y = \frac{2}{5}x + 2$
- ☐ $y = \frac{5}{2}x + 2$
- ☐ $y = -2x + \frac{5}{2}$
- ☐ none of the above

Question 6:

Write an equation for the line that passes through (-12, -9) and (24, 3).

- ☐ $y = -\frac{1}{3}x + 5$
- ☐ $y = \frac{1}{3}x - 5$
- ☐ $y = -\frac{1}{3}x - 5$
- ☐ $y = \frac{1}{3}x + 5$
- ☐ none of the above

Question 7:

Write an equation for the line that passes through (1, -1) and (0, -4).

- ☐ $y = 3x - 4$

- ☐ $y = 3x + 4$
- ☐ $y = -3x + 4$
- ☐ $y = -3x - 4$
- ☐ none of the above

Question 8:

Write an equation for the line that passes through (1, 4) and (-2, -2).

- ☐ $y = -2x - 2$
- ☐ $y = 2x - 2$
- ☐ $y = 2x + 2$
- ☐ $y = -2x + 2$
- ☐ none of the above

Question 9:

Write an equation for the line that passes through (2, 3) and (-8, 8).

- ☐ $y = \frac{1}{2}x + 4$
- ☐ $y = -\frac{1}{2}x + 4$
- ☐ $y = -\frac{1}{2}x - 4$
- ☐ $y = \frac{1}{2}x - 4$
- ☐ none of the above

Question 10:

Write an equation for the line that passes through (2, 3) and (3, 6).

- ☐ $y = 3x - 3$

- ☐ $y = -3x + 3$
- ☐ $y = 3x + 3$
- ☐ $y = -3x - 3$
- ☐ none of the above

Lesson Topic: Write linear equations in slope-intercept form Part 3

Question 1:

What is the slope of the line with the equation $-5 - x = y$?

- ☐ 1
- ☐ -1
- ☐ 5
- ☐ -5

Question 2:

What is the slope of the line with the equation $16 + x = -4y$?

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

Question 3:

What is the slope of the line with the equation $x + 1 = -y$?

- ☐ 2
- ☐ -2
- ☐ 1
- ☐ -1

Question 4:

What is the slope of the line with the equation $9x = 6 + 6y$?

- ☐ $\frac{3}{2}$
- ☐ $-\frac{3}{2}$

- ☐ $\frac{2}{3}$
- ☐ $-\frac{2}{3}$

Question 5:

What is the slope of the line with the equation $-5x = -3y$?

- ☐ $\frac{5}{3}$
- ☐ $-\frac{5}{3}$
- ☐ $-\frac{3}{5}$
- ☐ $\frac{3}{5}$

Question 6:

What is the slope of the line with the equation $3x = -y - 5$?

- ☐ -3
- ☐ $\frac{1}{3}$
- ☐ $-\frac{1}{3}$
- ☐ 3

Question 7:

What is the slope of the line with the equation $25 = 5y - 7x$?

- ☐ $-\frac{7}{5}$
- ☐ $\frac{7}{5}$
- ☐ $-\frac{5}{7}$
- ☐ $\frac{5}{7}$

Question 8:

What is the slope of the line with the equation $4 + 2y = 3x$?

- ☐ $\frac{3}{2}$
- ☐ $-\frac{3}{2}$
- ☐ $\frac{2}{3}$
- ☐ $-\frac{2}{3}$

Question 9:

What is the slope of the line with the equation $10x = 4 + 4y$?

- ☐ $-\frac{2}{5}$
- ☐ $\frac{2}{5}$
- ☐ $\frac{5}{2}$
- ☐ $-\frac{5}{2}$

Question 10:

What is the slope of the line with the equation $-7x + 4y = -8$?

- ☐ $-\frac{4}{7}$
- ☐ $\frac{4}{7}$
- ☐ $-\frac{7}{4}$
- ☐ $\frac{7}{4}$

Lesson Topic: Rewrite equations in slope-intercept form to find the slope and y-intercept

Question 1:

Determine the slope and y-intercept of the graph:

$$7x + 4y = 28$$

- ☐ $m = 7/4, b = -7$
- ☐ $m = -7/4, b = 7$
- ☐ $m = -7/4, b = -7$
- ☐ $m = 7/4, b = 7$

Question 2:

Determine the slope and y-intercept of the graph:

$$4x + y = -11$$

- ☐ $m = -4, b = 11$
- ☐ $m = 4, b = -11$
- ☐ $m = -4, b = -11$
- ☐ $m = 4, b = 11$

Question 3:

Determine the slope and y-intercept of the graph:

$$11x + 13y = 23$$

- ☐ $m = -11/13, b = 23/13$
- ☐ $m = 11/13, b = 23/13$
- ☐ $m = 11/13, b = -23/13$
- ☐ $m = -11/13, b = -23/13$
- ☐ none of the above

Question 4:

Determine the slope and y-intercept of the graph:

$$2x + 16y = 4$$

- ☐ $m = 1/8, b = 1/4$
- ☐ $m = 1/8, b = -1/4$
- ☐ $m = -1/8, b = 1/4$
- ☐ $m = -1/8, b = -1/4$
- ☐ none of the above

Question 5:

Determine the slope and y-intercept of the graph:

$$3x + 4y = 12$$

- ☐ $m = -3/4, b = 3$
- ☐ $m = -3/4, b = -3$
- ☐ $m = 3/4, b = -3$
- ☐ $m = 3/4, b = 3$
- ☐ none of the above

Question 6:

Determine the slope and y-intercept of the graph:

$$4x - 4y = 16$$

- ☐ $m = -1, b = -4$
- ☐ $m = -1, b = 4$
- ☐ $m = 1, b = 4$
- ☐ $m = 1, b = -4$
- ☐ none of the above

Question 7:

Determine the slope and y-intercept of the graph:

$$10x - 13y = 36$$

- ☐ $m = 10/13, b = -36/13$
- ☐ $m = -10/13, b = -36/13$
- ☐ $m = 10/13, b = 36/13$
- ☐ $m = -10/13, b = 36/13$

Question 8:

Determine the slope and y-intercept of the graph:

$$2x + 5y = 10$$

- ☐ $m = 2/5, b = -2$
- ☐ $m = -2/5, b = -2$
- ☐ $m = -2/5, b = 2$
- ☐ $m = 2/5, b = 2$

Question 9:

Determine the slope and y-intercept of the graph:

$$y = \frac{7}{8}x - 13$$

- ☐ $m = -7/8, b = -13$
- ☐ $m = 7/8, b = -13$
- ☐ $m = 7/8, b = 13$
- ☐ $m = -7/8, b = 13$

Question 10:

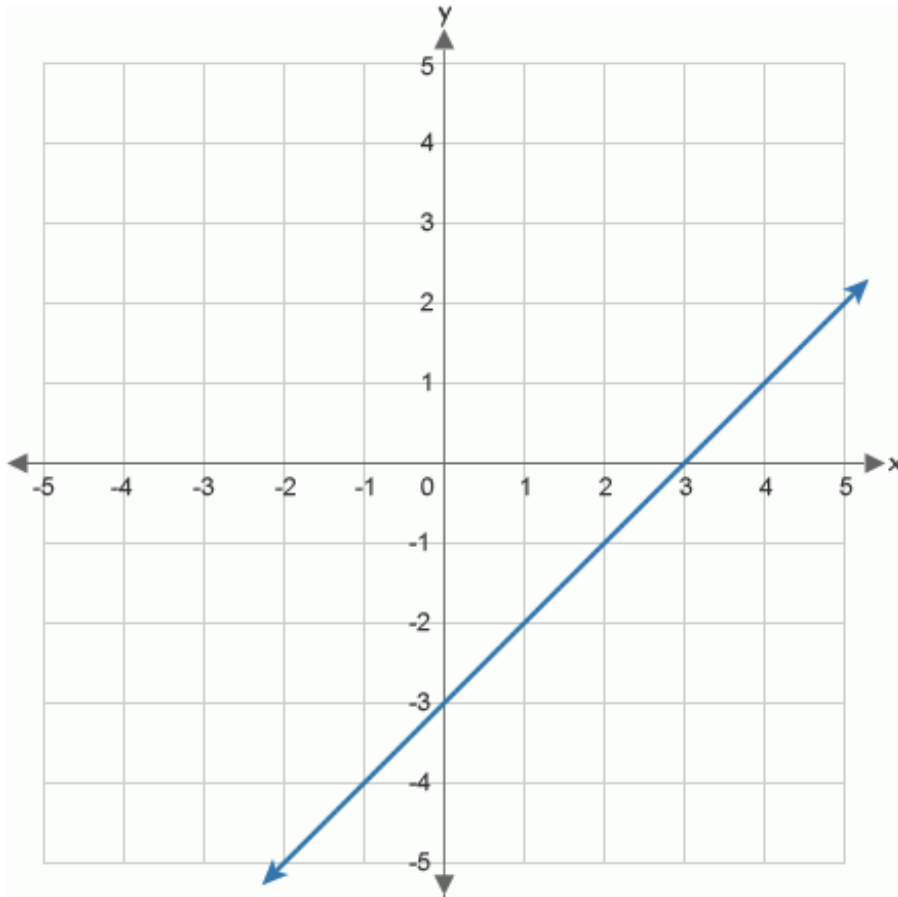
Determine the slope and y-intercept of the graph:

$$6x - 3y = 15$$

- ☐ $m = 5, b = 5$
- ☐ $m = -2, b = 5$
- ☐ $m = 2, b = 5$
- ☐ $m = -2, b = -5$
- ☐ none of the above

Lesson Topic: Write linear equations in slope-intercept form using graphs

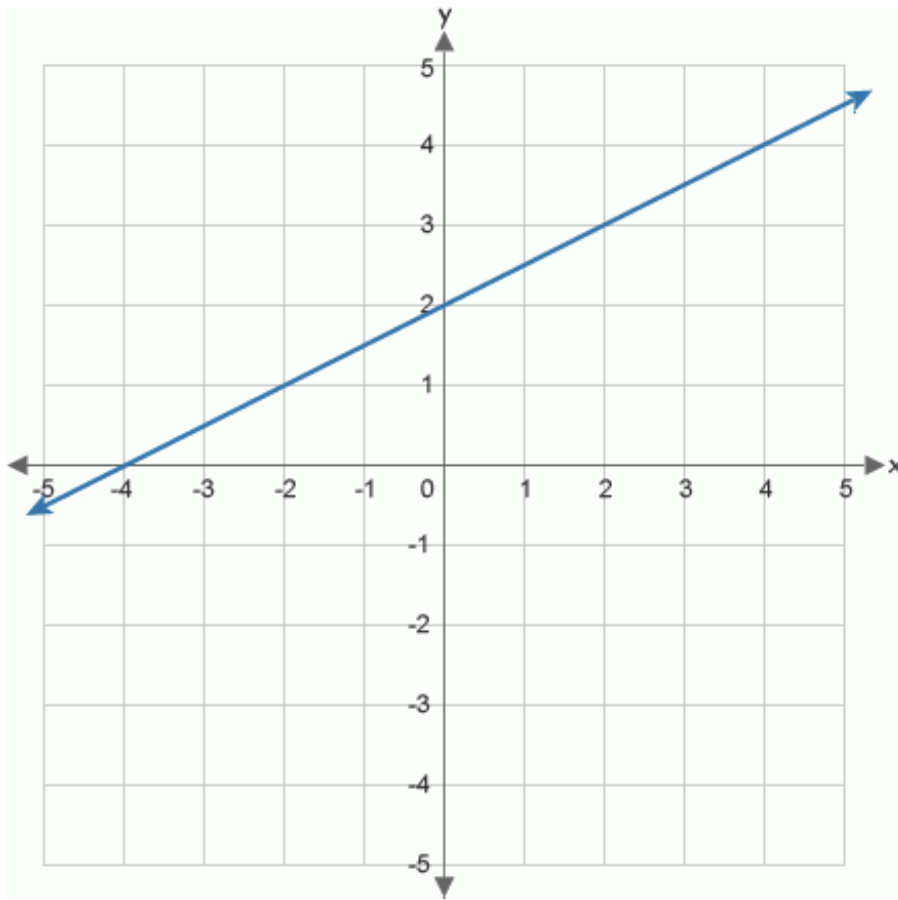
Question 1:



Write an equation for the line shown above:

$$y = \boxed{}x + \boxed{}$$

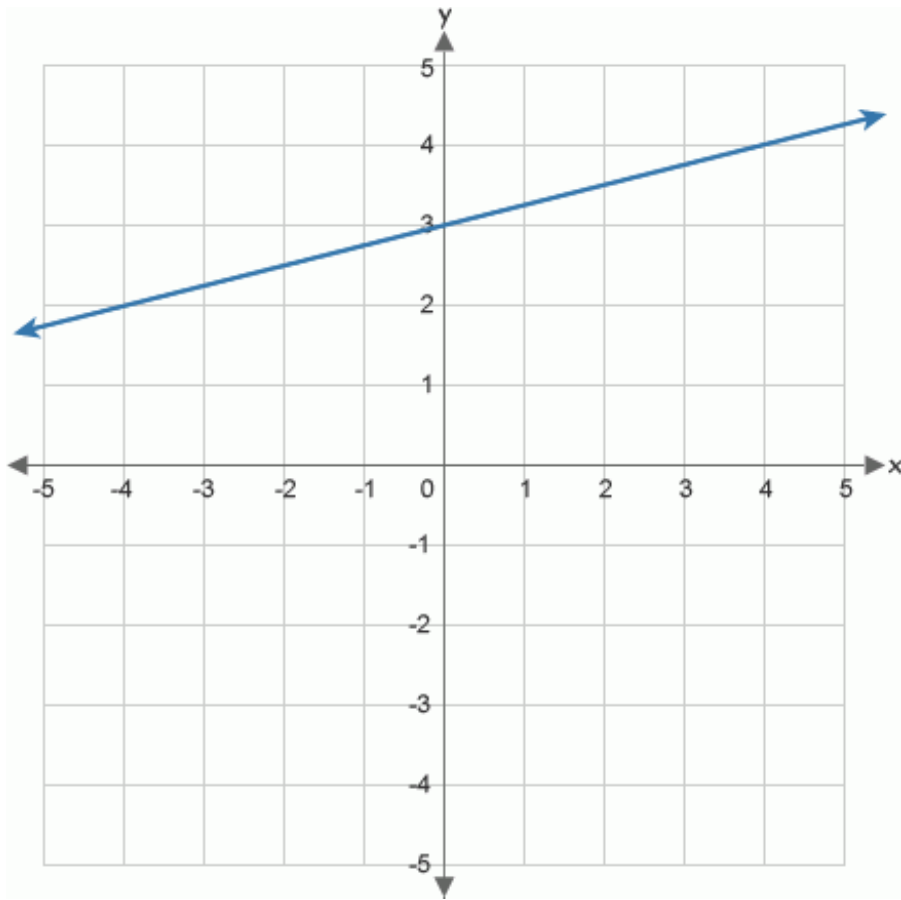
Question 2:



Write an equation for the line shown above:

$$y = \boxed{}x + \boxed{}$$

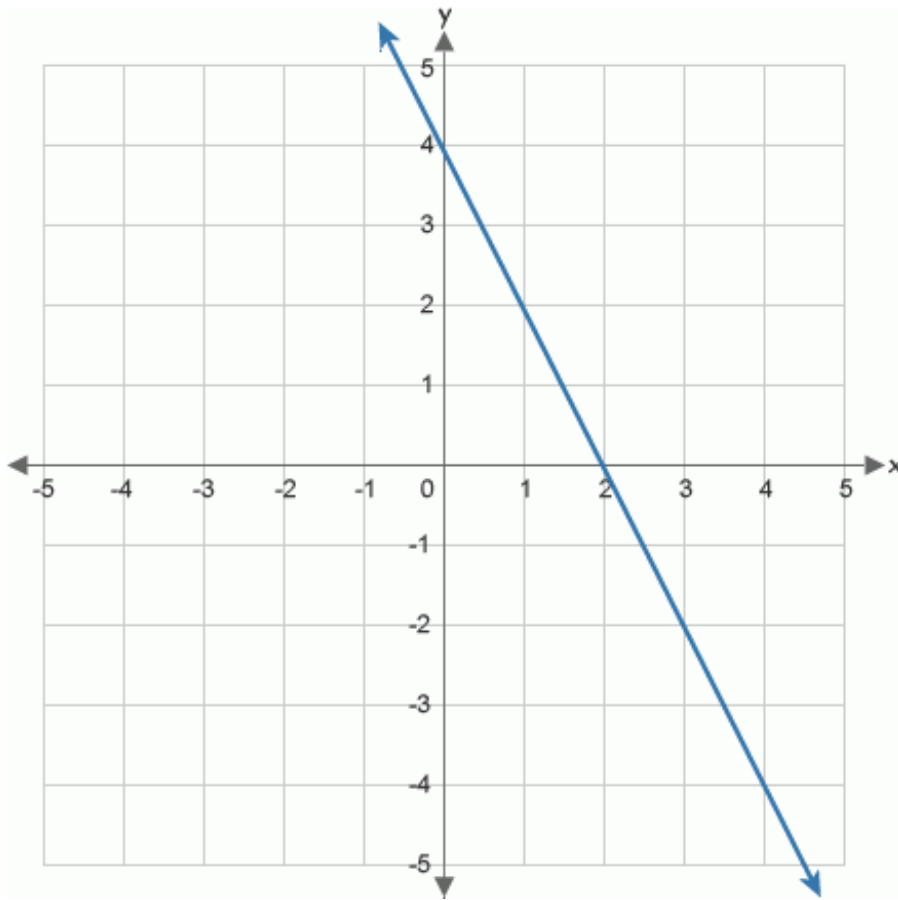
Question 3:



Write an equation for the line shown above:

$$y = \boxed{}x + \boxed{}$$

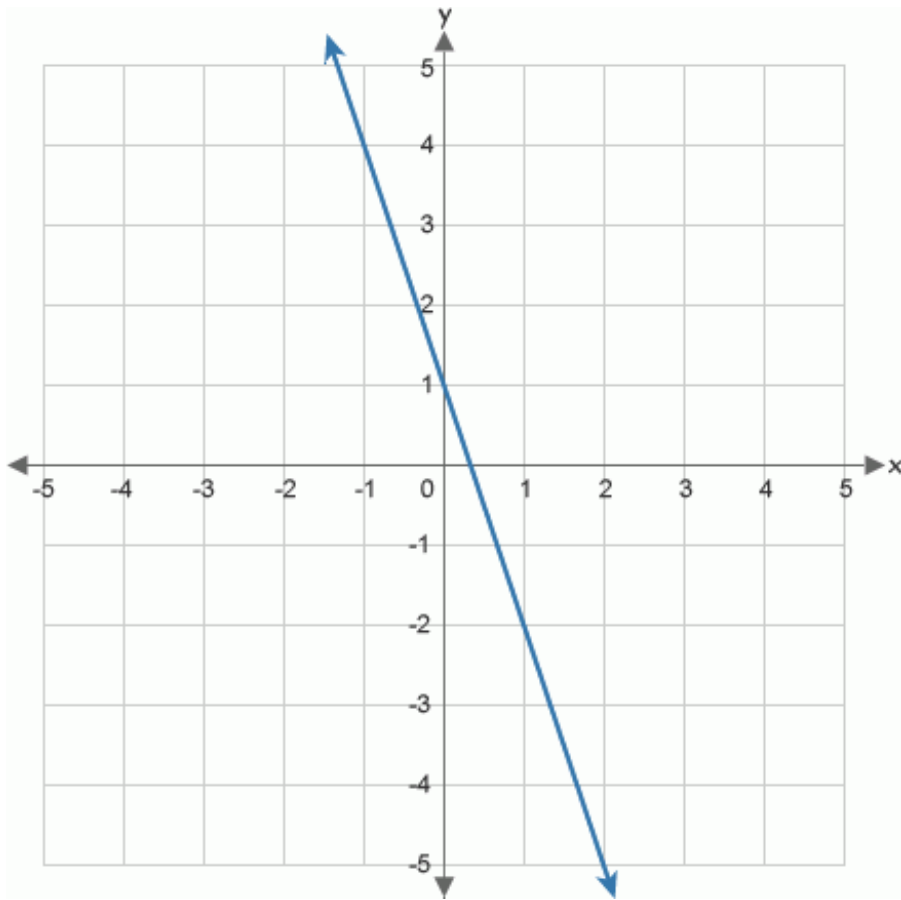
Question 4:



Write an equation for the line shown above:

$$y = \boxed{}x + \boxed{}$$

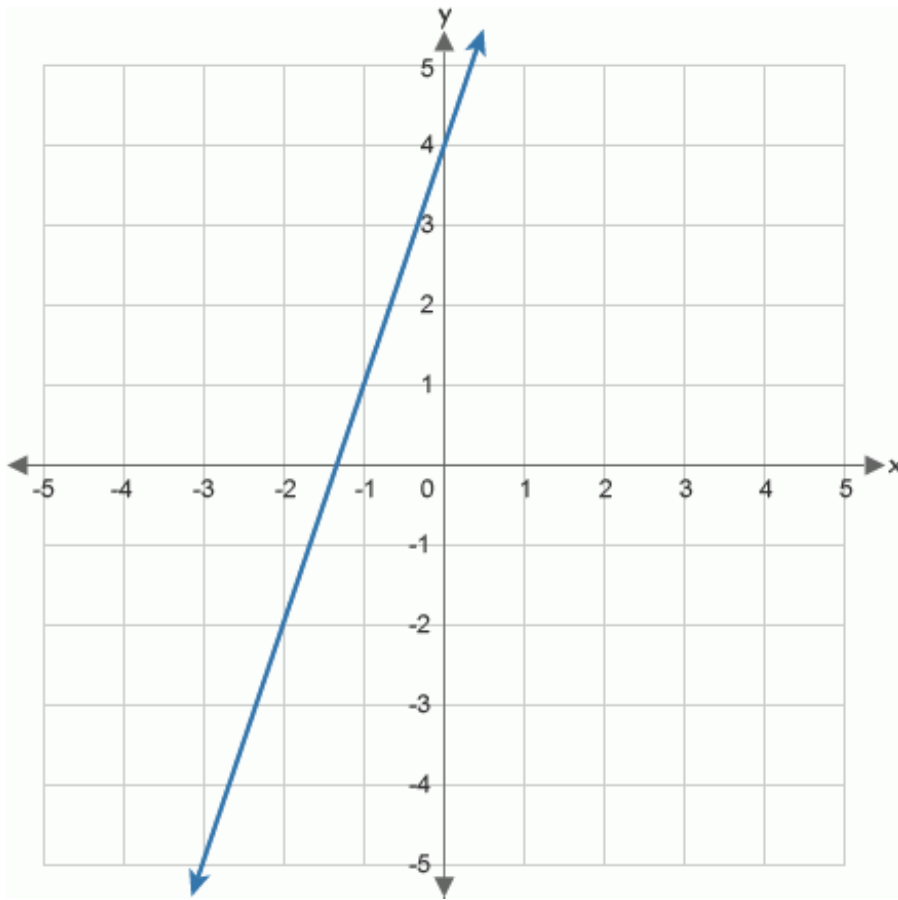
Question 5:



Write an equation for the line shown above:

$$y = \boxed{}x + \boxed{}$$

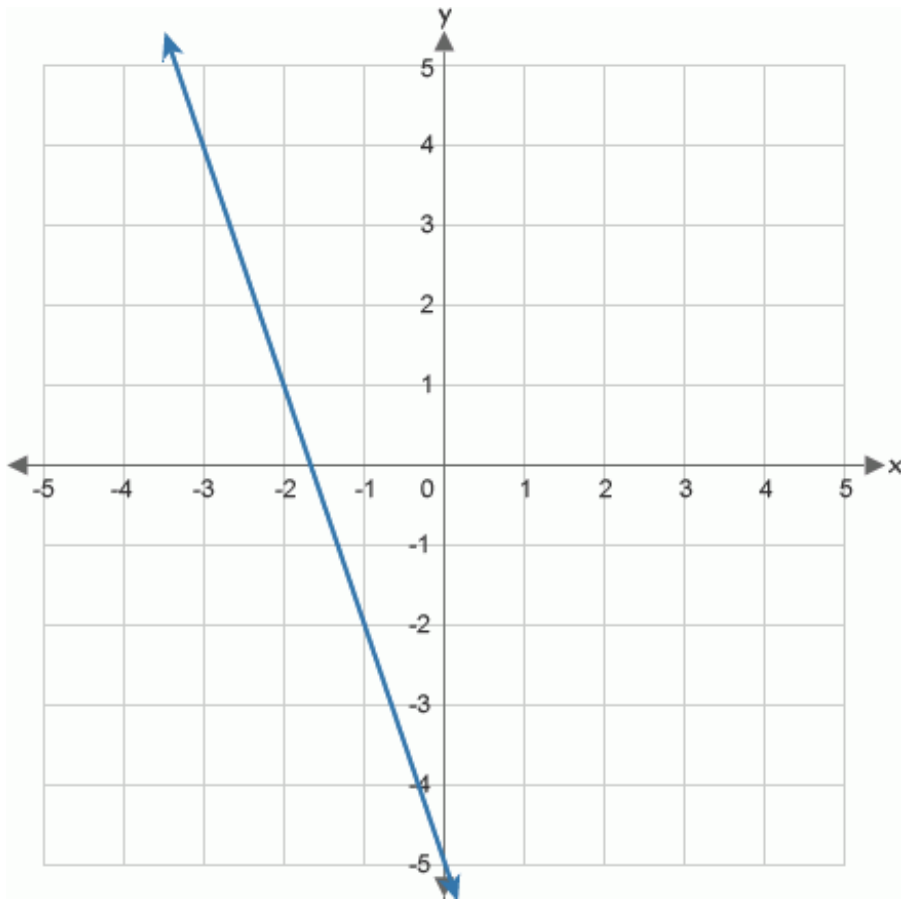
Question 6:



Write an equation for the line shown above:

$$y = \boxed{}x + \boxed{}$$

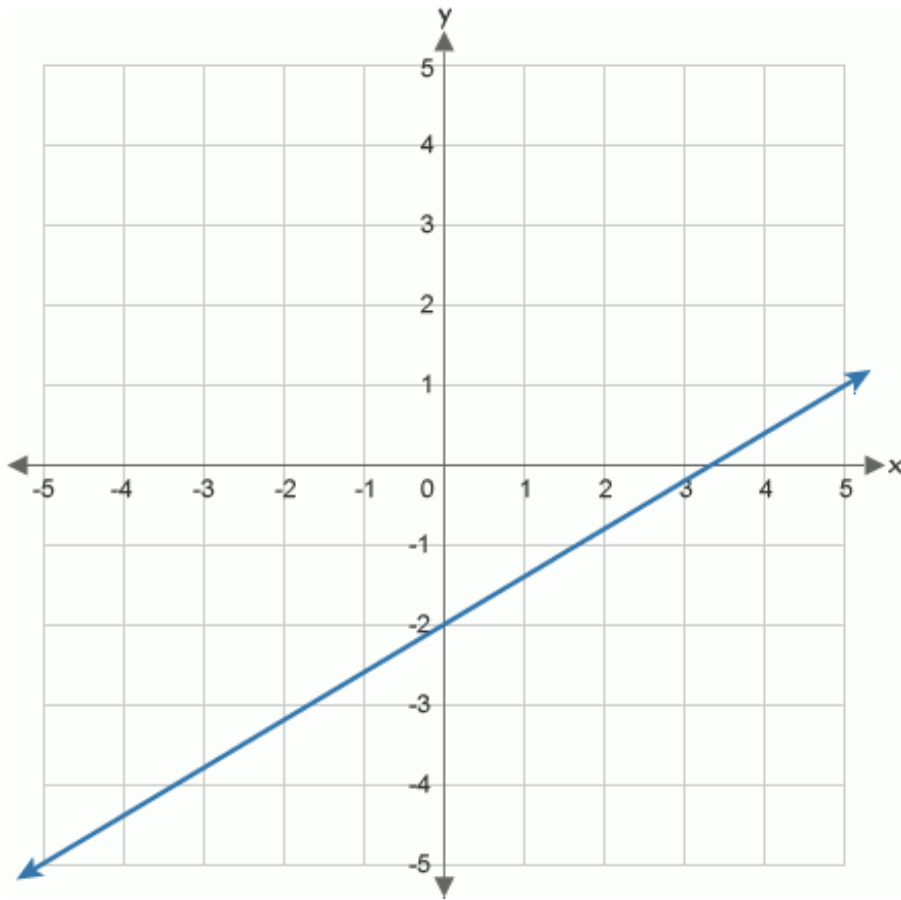
Question 7:



Write an equation for the line shown above:

$$y = \boxed{}x + \boxed{}$$

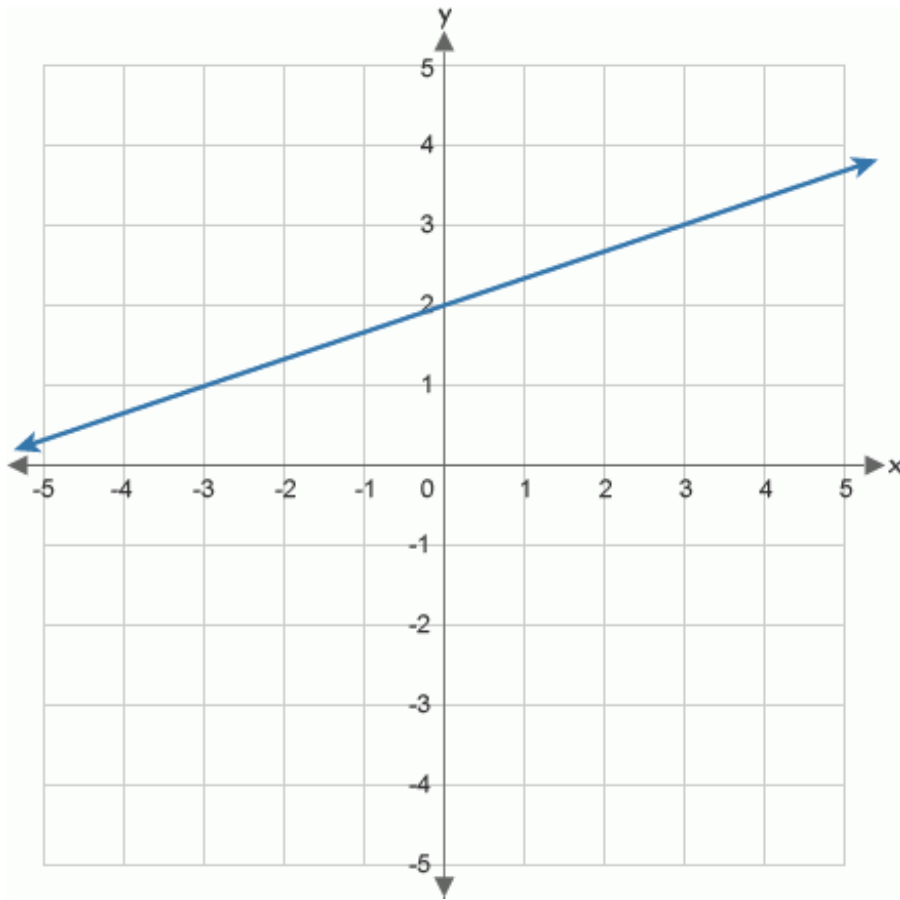
Question 8:



Write an equation for the line shown above:

$$y = \boxed{}x + \boxed{}$$

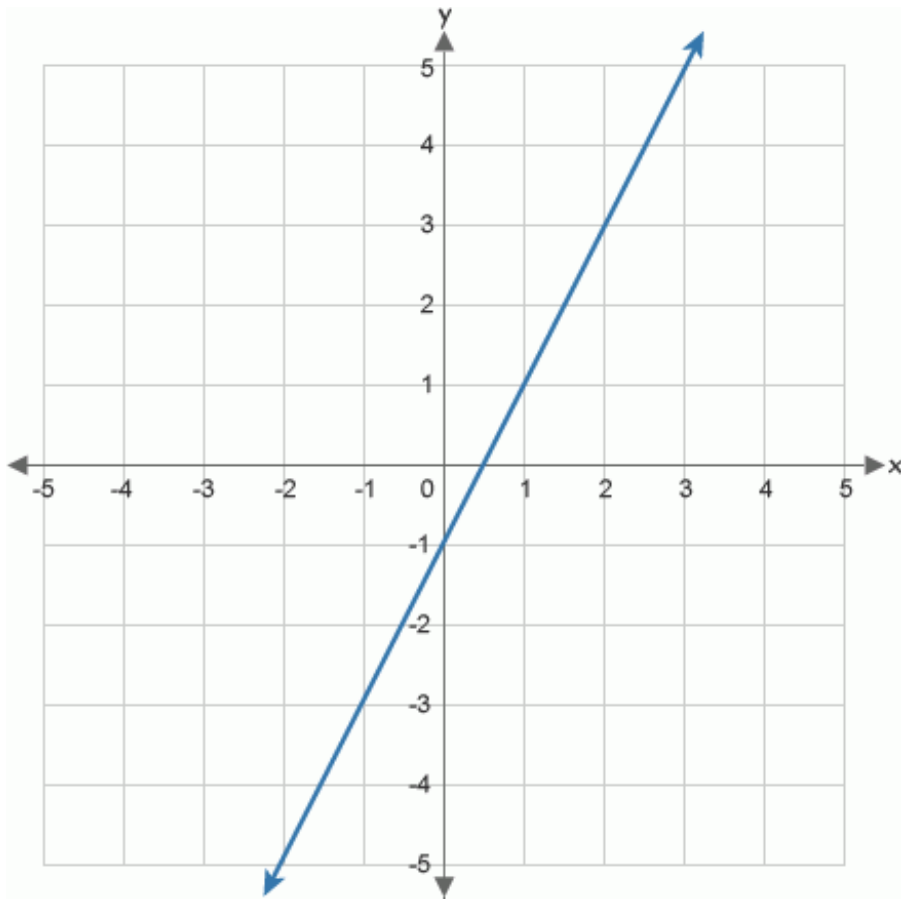
Question 9:



Write an equation for the line shown above:

$$y = \boxed{}x + \boxed{}$$

Question 10:



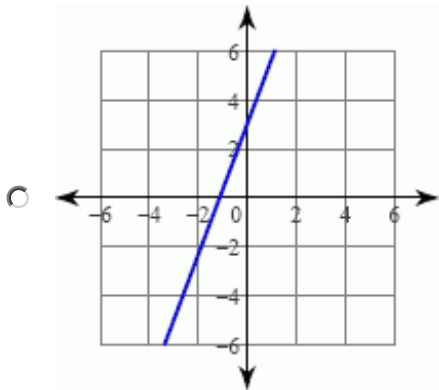
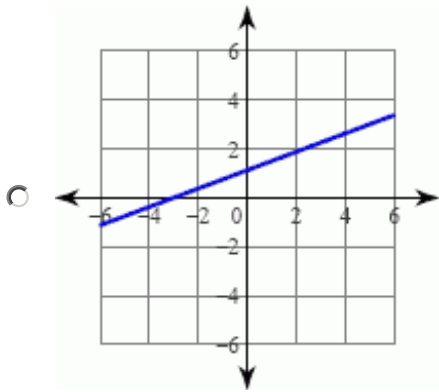
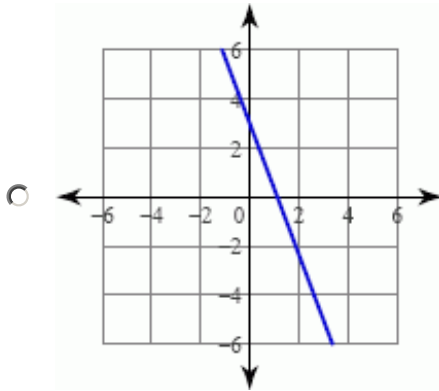
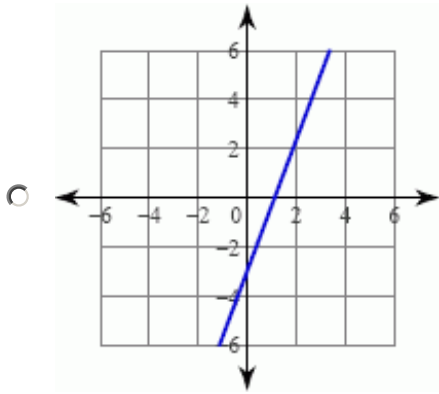
Write an equation for the line shown above:

$y = \boxed{}x + \boxed{}$

Lesson Topic: Graph linear equations Part 1

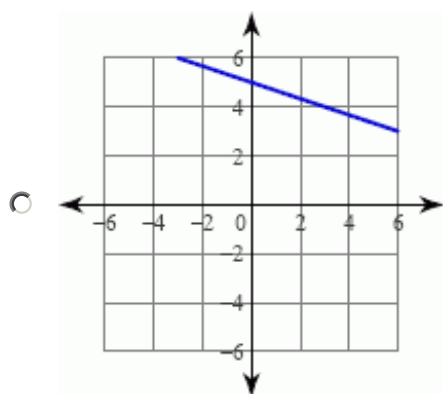
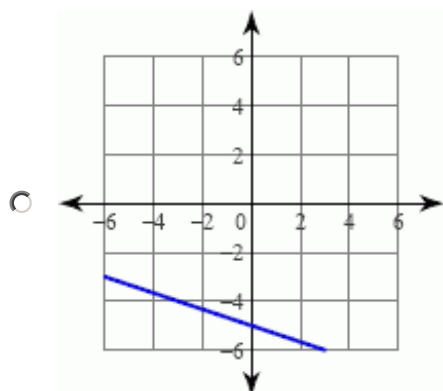
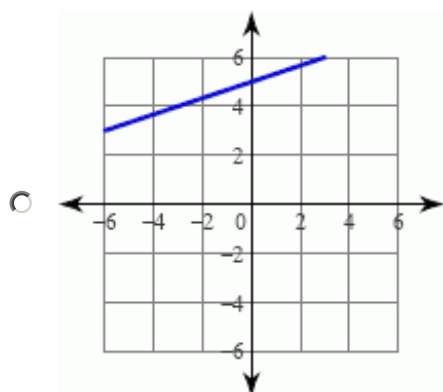
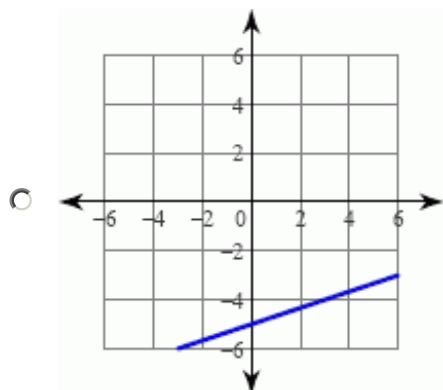
Question 1:

Graph $y = \frac{8}{3}x + 3$ using the slope and y-intercept..



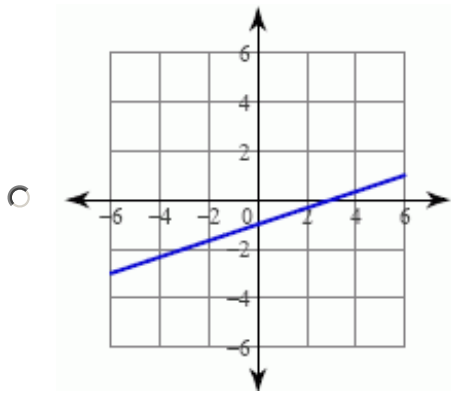
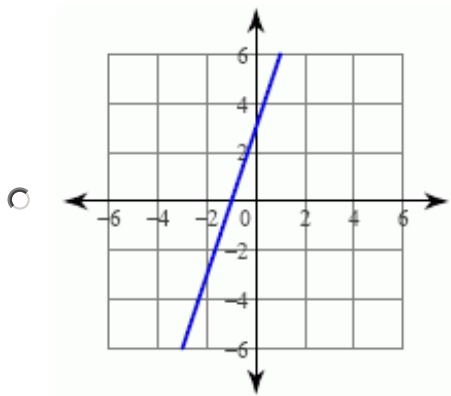
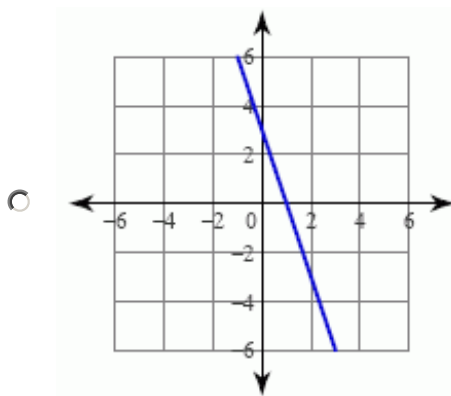
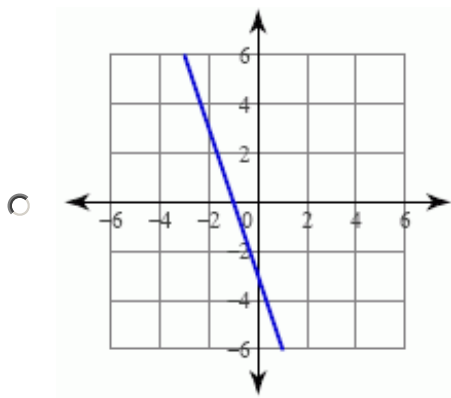
Question 2:

Graph $y = -\frac{1}{3}x + 5$ using the slope and y-intercept.



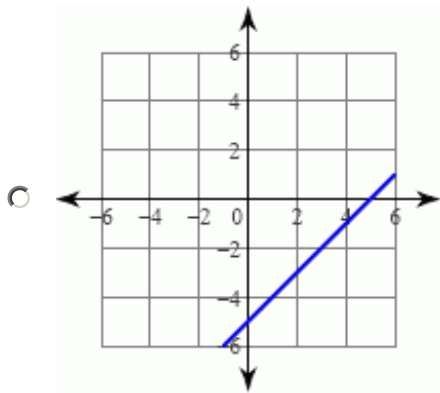
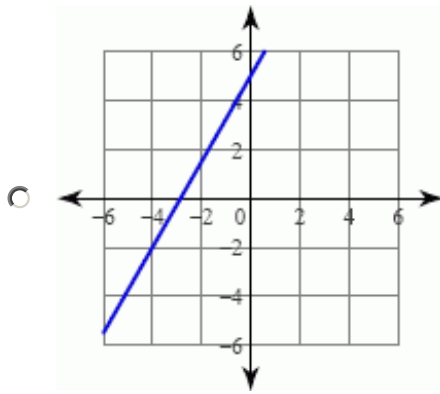
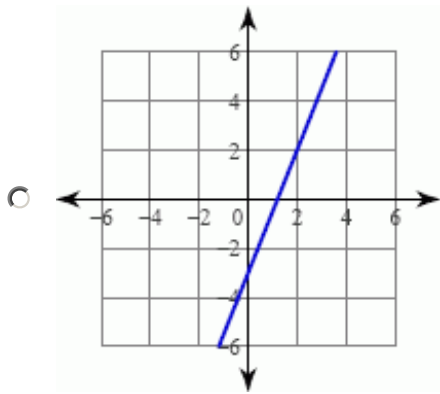
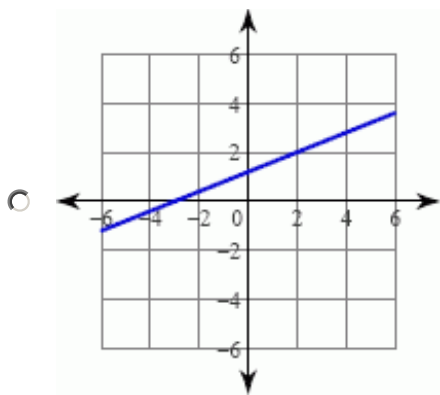
Question 3:

Graph $3 + 3x = -y$ using the slope and y-intercept.



Question 4:

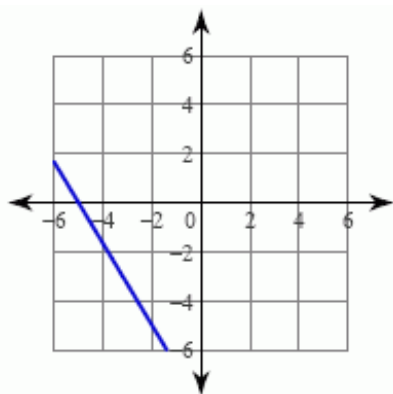
Graph $y = \frac{5}{2}x - 3$ using the slope and y-intercept.



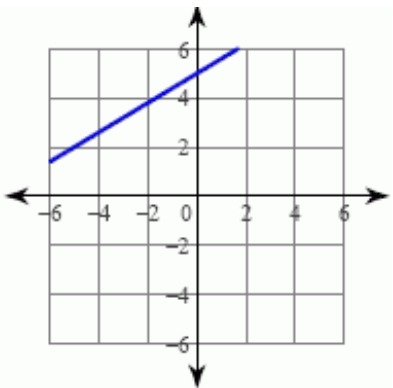
Question 5:

Graph $0 = -3x - 25 + 5y$ using the slope and the y-intercept.

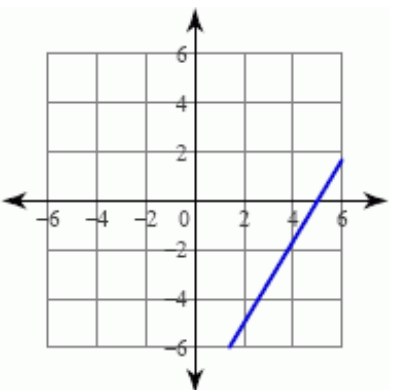
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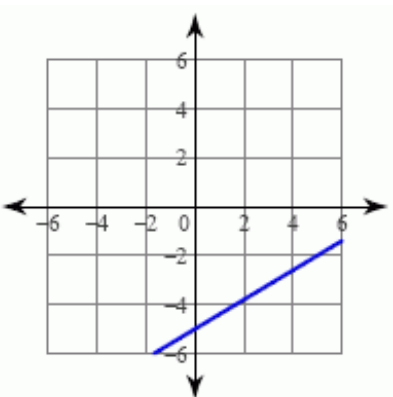
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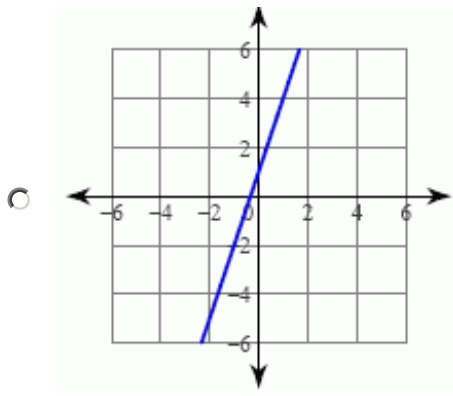
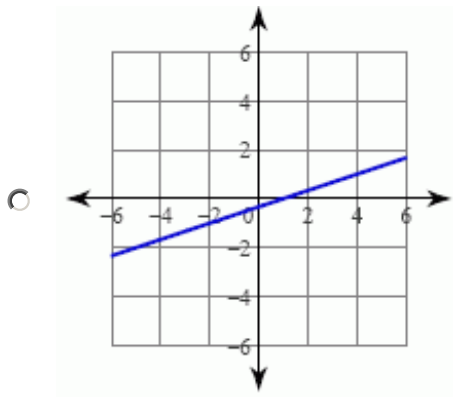
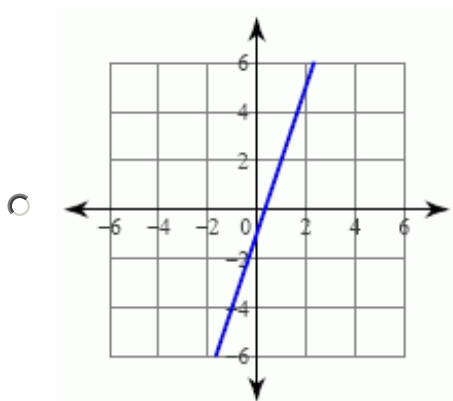
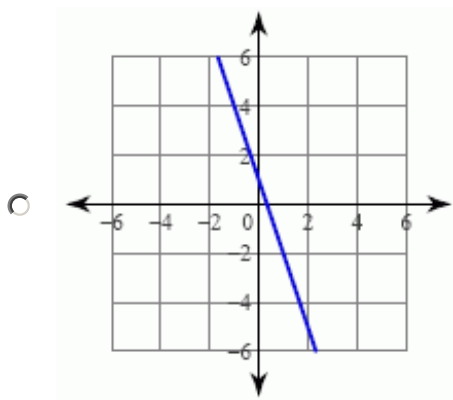


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Question 6:

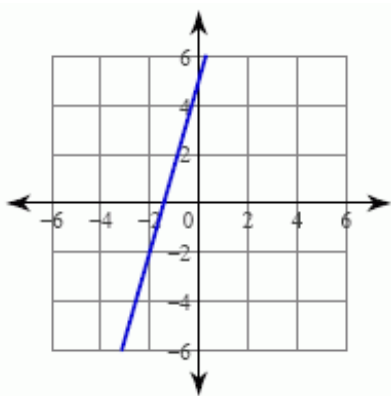
Graph $-3x + y = 1$ using the slope and y-intercept.



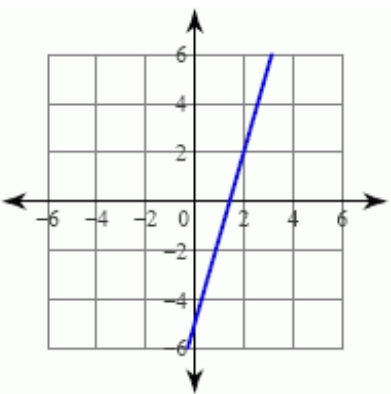
Question 7:

Graph $10 = 7x - 2y$ using the slope and y-intercept.

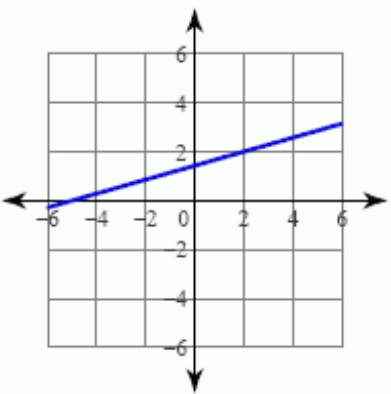
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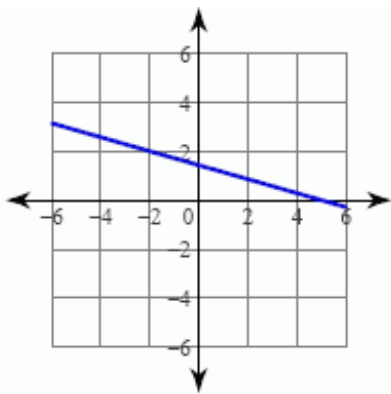
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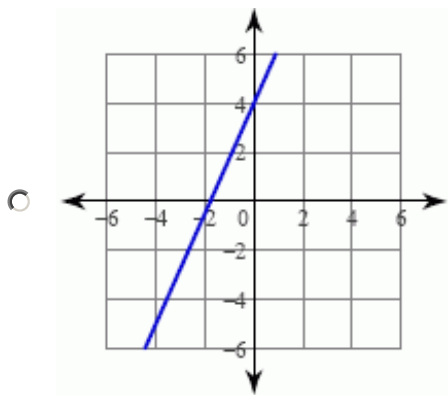
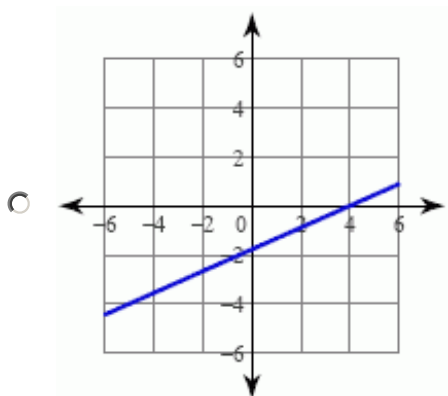
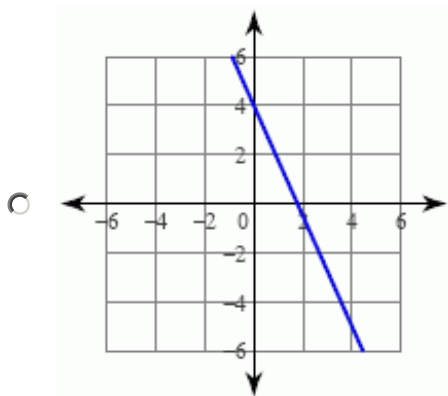
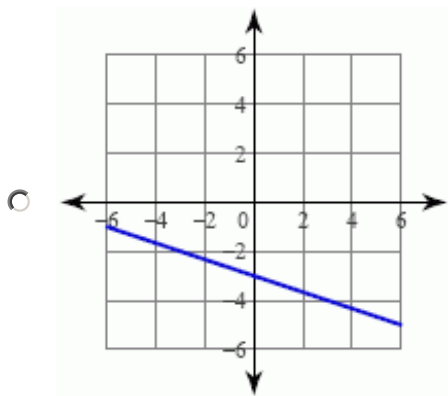


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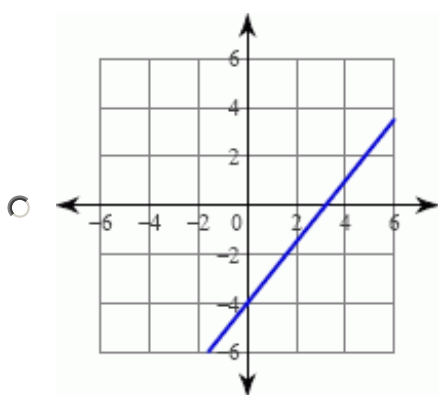
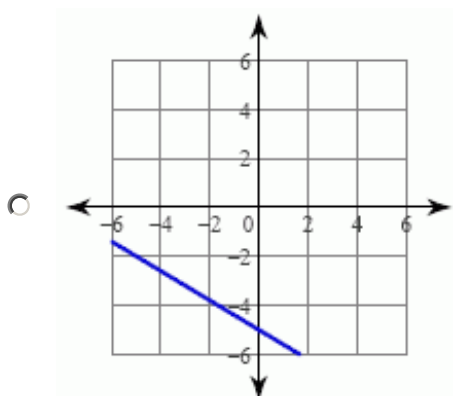
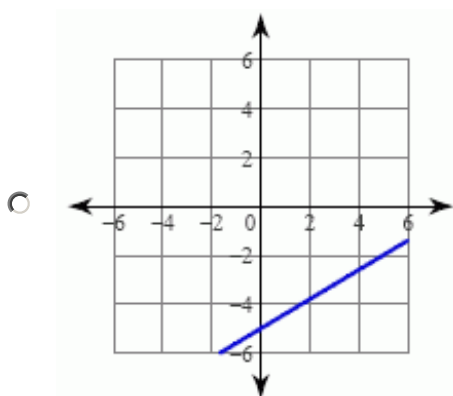
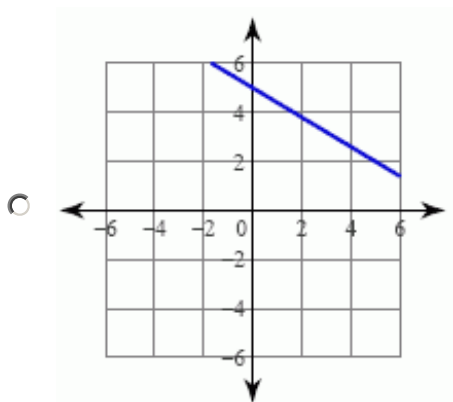
Question 8:

Graph $1 = \frac{1}{4}y + \frac{9}{16}x$ using the slope and y-intercept.



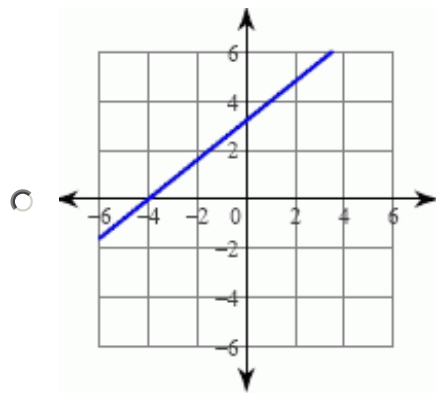
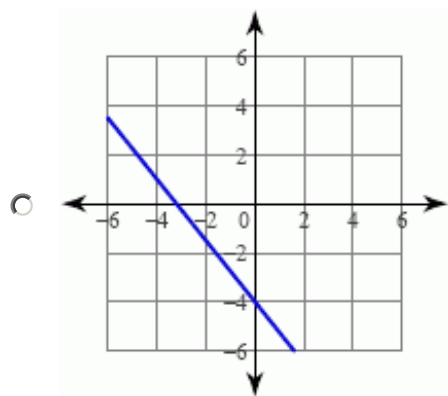
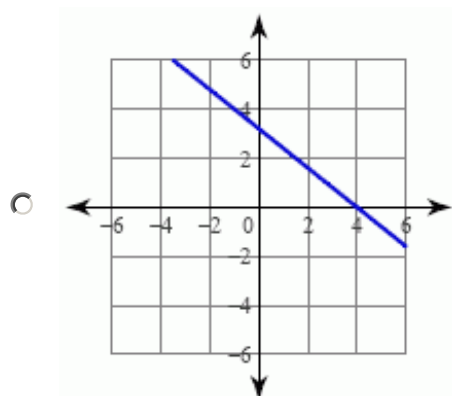
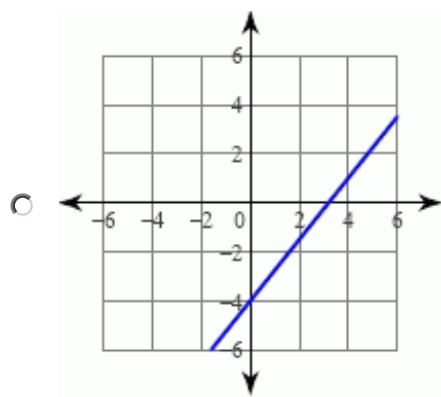
Question 9:

Graph $25 = -5y - 3x$ using the slope and y-intercept.



Question 10:

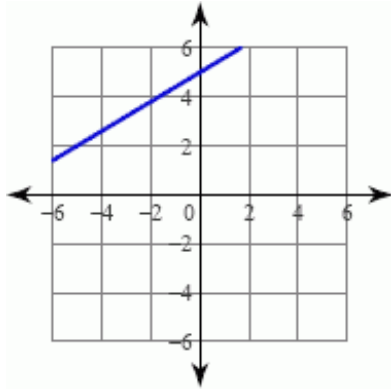
Graph $0 = -5x + 4y + 16$ using the slope and y-intercept.



Lesson Topic: Graph linear equations Part 2

Question 1:

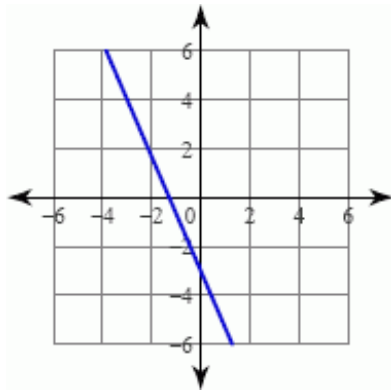
Which equation matches the graph shown?



- ☐ $y = \frac{3}{5}x - 5$
- ☐ $y = \frac{3}{5}x + 5$
- ☐ $y = \frac{1}{5}x - 5$
- ☐ $y = -\frac{1}{5}x + 5$

Question 2:

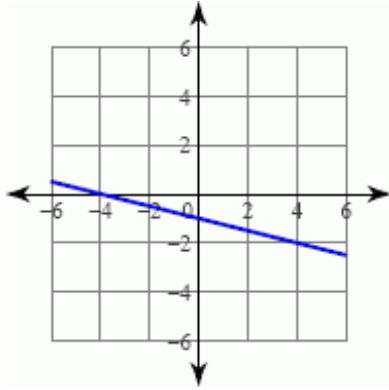
Which equation matches the graph shown?



- ☐ $y = -\frac{7}{3}x - 3$
- ☐ $y = -\frac{1}{3}x - 5$
- ☐ $y = -\frac{7}{3}x - 5$
- ☐ $y = -\frac{1}{3}x - 3$

Question 3:

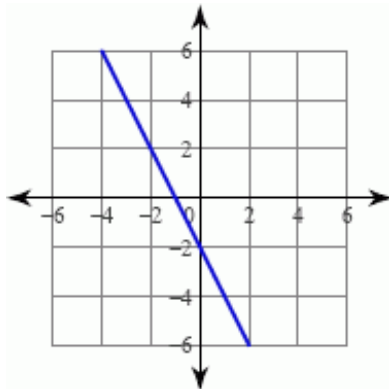
Which equation matches the graph shown?



- ☐ $y = -\frac{1}{4}x - 1$
- ☐ $y = -\frac{1}{4}x - 10$
- ☐ $y = -\frac{3}{4}x - 1$
- ☐ $y = -\frac{1}{4}x + 5$

Question 4:

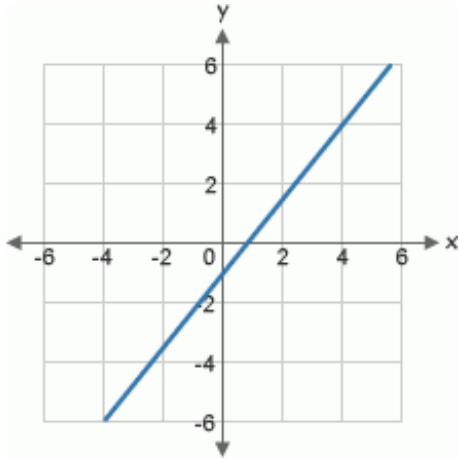
Which equation matches the graph shown?



- ☐ $y = -2x - 2$
- ☐ $y = -2x - 4$
- ☐ $y = -4x - 4$
- ☐ $y = -4x - 2$

Question 5:

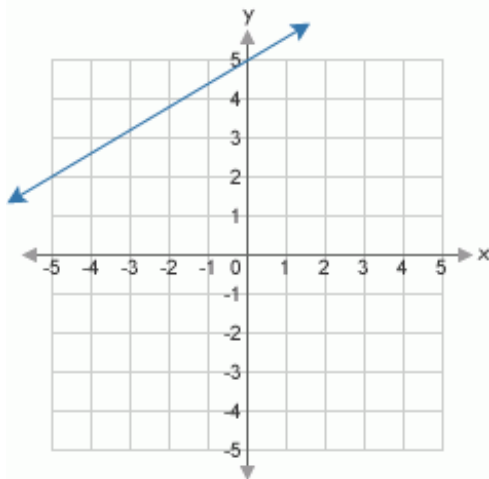
Which equation matches the graph shown?



- ☐ $y = -\frac{4}{5}x - 2$
- ☐ $y = -\frac{5}{4}x + 1$
- ☐ $y = \frac{4}{5}x + 2$
- ☐ $y = \frac{5}{4}x - 1$

Question 6:

Which equation matches the graph shown?



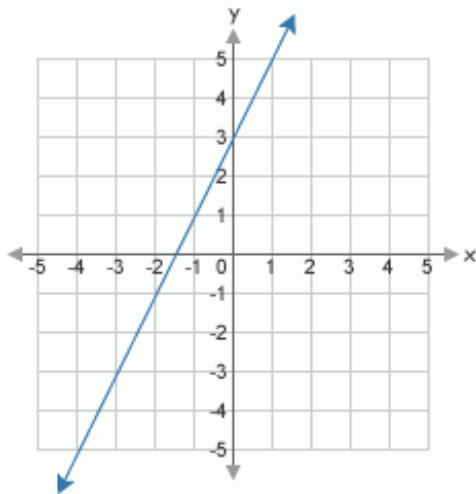
- ☐ $y = -\frac{1}{5}x + 5$
- ☐ $y = \frac{3}{5}x + 5$

☐ $y = \frac{3}{5}x - 5$

☐ $y = \frac{1}{5}x - 5$

Question 7:

Which equation matches the graph shown?



☐ $y = -2x + 10$

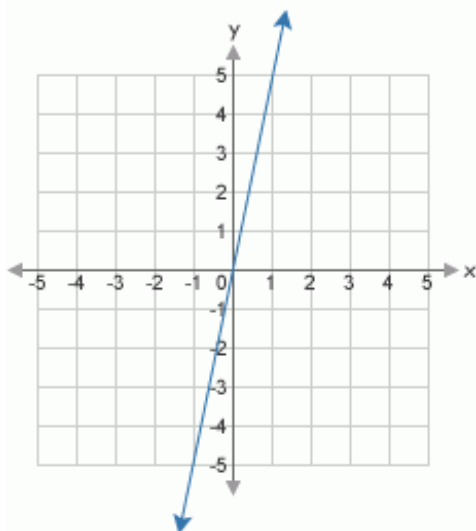
☐ $y = -2x + 3$

☐ $y = 2x + 6$

☐ $y = 2x + 3$

Question 8:

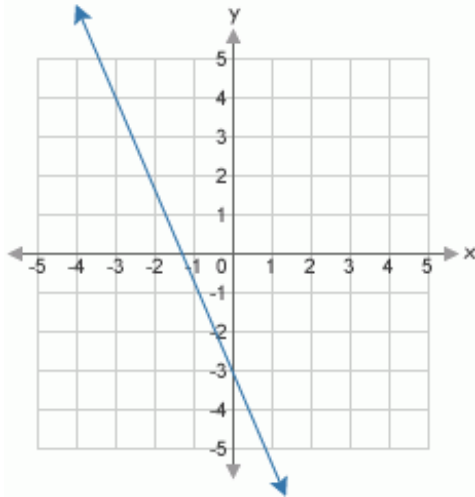
Which equation matches the graph shown?



- ☐ $y = 3x$
- ☐ $y = 5x$
- ☐ $y = 3x + 2$
- ☐ $y = 5x + 3$

Question 9:

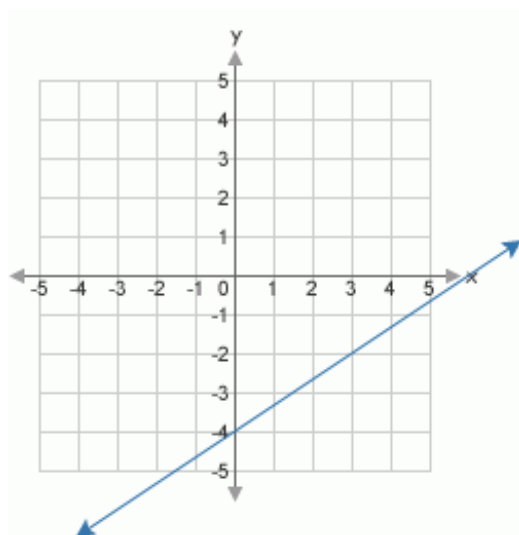
Which equation matches the graph shown?



- ☐ $y = -\frac{7}{3}x - 3$
- ☐ $y = -\frac{7}{3}x - 5$
- ☐ $y = -\frac{1}{3}x - 3$
- ☐ $y = -\frac{1}{3}x - 5$

Question 10:

Which equation matches the graph shown?



☐ $y = \frac{2}{3}x - 4$

☐ $y = \frac{2}{5}x - 4$

☐ $y = -\frac{2}{3}x - 4$

☐ $y = -\frac{2}{5}x - 4$

Lesson Topic: Determine x- and y-intercept

Question 1:

Write the x-intercept of the graph of $8x - 4y = 2$.

(, 0)

Question 2:

Write the y-intercept of the graph of $x + 10y = 13$.

(0,)

Question 3:

Determine the coordinates of the y-intercept of $-9x + 5y = 2$.

- ☐ (0, $-\frac{2}{5}$)
- ☐ (0, $-\frac{5}{2}$)
- ☐ (0, $\frac{2}{5}$)
- ☐ (0, $\frac{5}{2}$)
- ☐ none of the above

Question 4:

Write the x-intercept of the graph of $-4x - 7y = 21$.

(, 0)

Question 5:

Write the x-intercept of the graph of $x + 10y = 13$?

(, 0)

Question 6:

Write the y-intercept of the graph of $8x - 4y = 2$?

(0,)

Question 7:

Determine the coordinates of the y-intercept of $8x - 2y = 16$?

- ☐ (0, 8)
- ☐ (0, -8)
- ☐ (0, -2)
- ☐ (0, 2)
- ☐ none of the above

Question 8:

Write the x-intercept of the graph of $3x + y = 4$?

(, 0)

Question 9:

Write the x-intercept of the graph of $-3x + 5y = 18$?

(, 0)

Question 10:

Write the y-intercept of the graph of $-4x - 7y = 21$.

(0,)

Lesson Topic: Calculate the slope with decimals and fractions

Question 1:

Find the slope between two points on a graph that are located at (3, 5) and (5, 6).

- ☐ 0.6
- ☐ 0.7
- ☐ 0.5
- ☐ -0.5

Question 2:

Find the slope between two points on a graph that are located at (1, 3.2) and (3, 5.9).

- ☐ 2.35
- ☐ -1.35
- ☐ -2.35
- ☐ 1.35

Question 3:

Find the slope between two points on a graph that are located at (4.4, 2.8) and (8.3, 5).

- ☐ 1.66
- ☐ 0.56
- ☐ 1.56
- ☐ 0.66

Question 4:

Find the slope between two points on a graph that are located at (4.7, 3.1) and (2.7, 5.8).

- ☐ 1.35
- ☐ -2.35

- ☐ 2.35
- ☐ -1.35

Question 5:

Find the slope between two points on a graph that are located at (9.2, 6.2) and (9.6, 0.9).

- ☐ 1.25
- ☐ -1.25
- ☐ -13.25
- ☐ 13.25

Question 6:

Find the slope between two points on a graph that are located at (9, 1.4) and (4.2, 4).

- ☐ -0.54
- ☐ -1.54
- ☐ 0.54
- ☐ 1.54

Question 7:

Find the slope between two points on a graph that are located at (9.5, 5.3) and (2.1, 1.6).

- ☐ 0.5
- ☐ 0.25
- ☐ -0.5
- ☐ -0.25

Question 8:

Find the slope between two points on a graph that are located at (3.2, 3.4) and (0.2, 9.2).

- ☐ 1.93

- ☐ -1.93
- ☐ -0.93
- ☐ 0.93

Question 9:

Find the slope between two points on a graph that are located at (7.4, 7.1) and (5.9, 9.9).

- ☐ 1.87
- ☐ 2.87
- ☐ -2.87
- ☐ -1.87

Question 10:

Find the slope between two points on a graph that are located at (5.9, 10) and (9.3, 2.7).

- ☐ -2.15
- ☐ 2.15
- ☐ 0.15
- ☐ -0.15
- ☐ none of the above

Lesson: Solving Systems of Equations

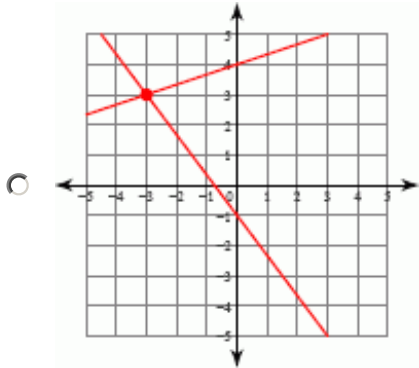
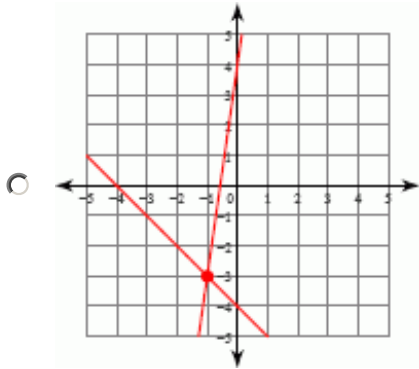
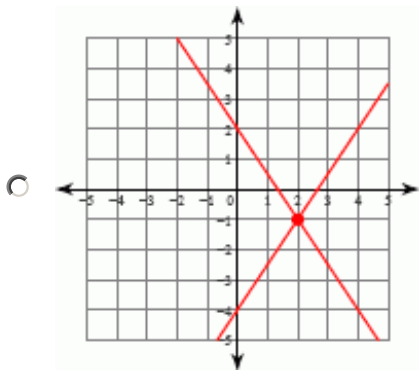
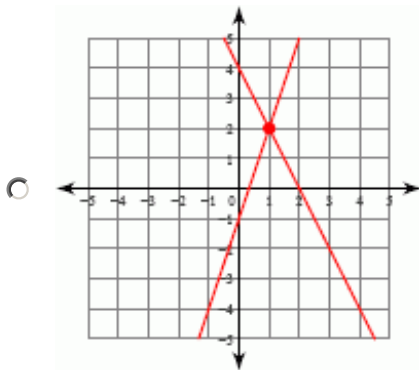
Lesson Topic: Solve a system of equations by graphing (part 1)

Question 1:

Solve the system of equations by graphing.

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

$$y = \frac{3}{2}x - 4$$

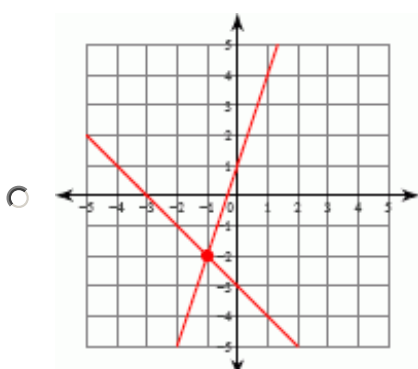
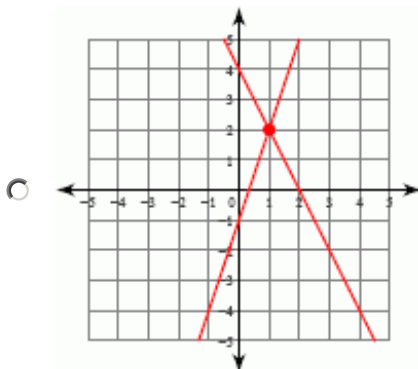
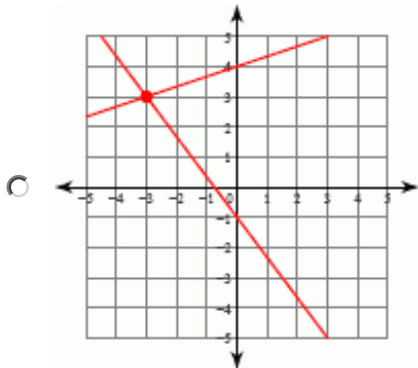
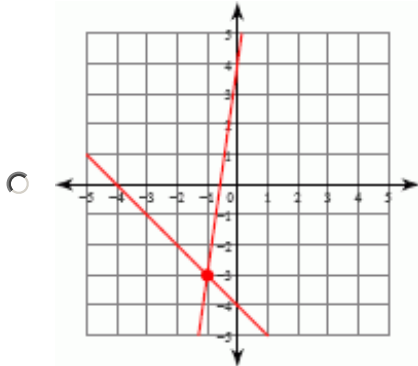


Question 2:

Solve the system of equations by graphing.

$$y = -\frac{4}{3}x - 1$$

$$y = \frac{1}{3}x + 4$$

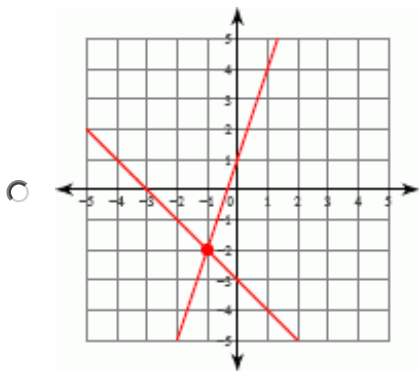
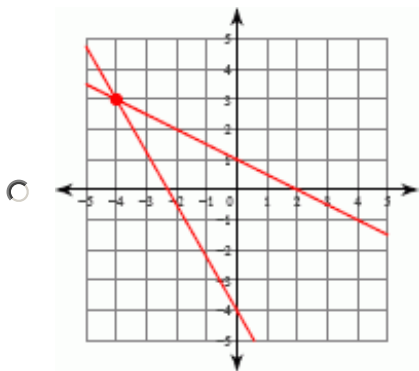
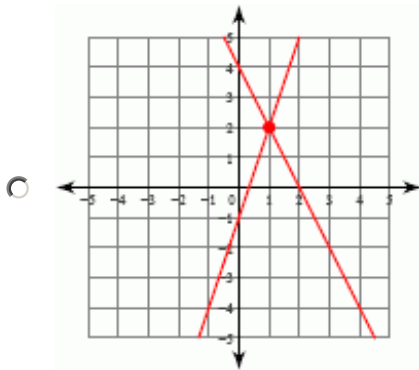
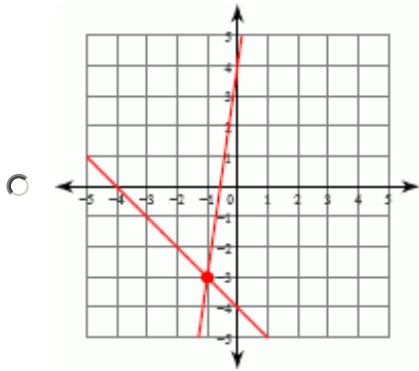


Question 3:

Solve the system of equations by graphing.

$$y = -x - 4$$

$$y = 7x + 4$$

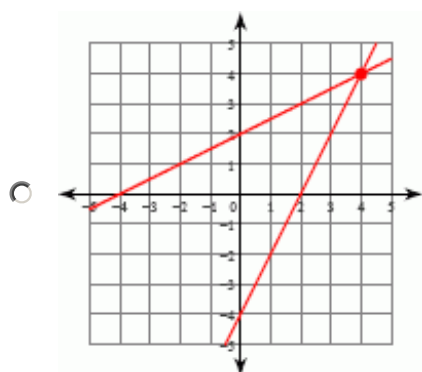
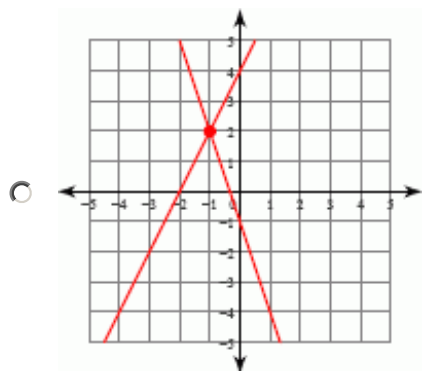
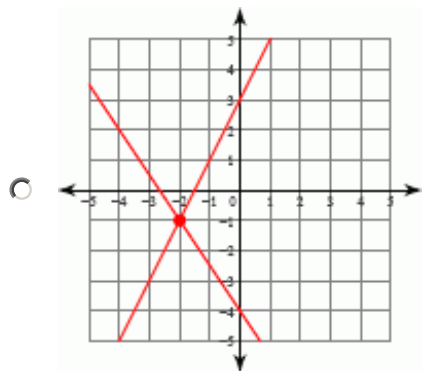
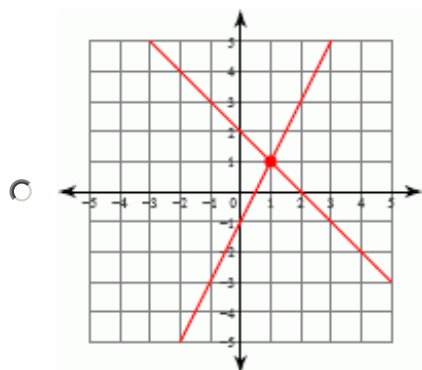


Question 4:

Solve the system of equations by graphing.

$$y = -x + 2$$

$$y = 2x - 1$$

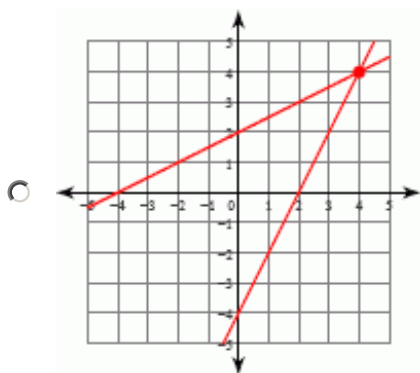
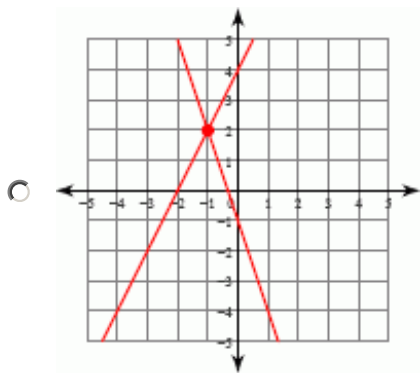
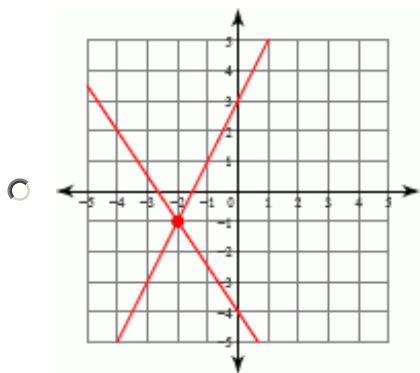
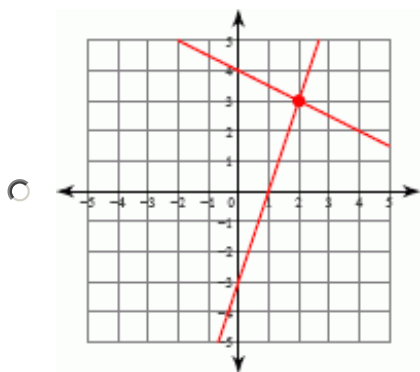


Question 5:

Solve the system of equations by graphing.

$$y = 2x + 3$$

$$y = -\frac{3}{2}x - 4$$

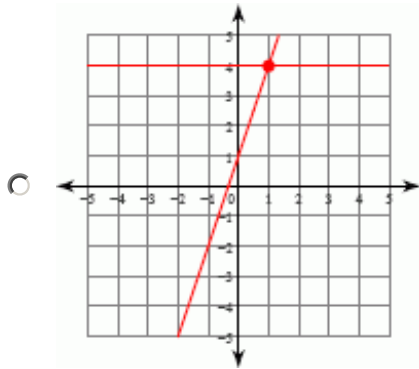
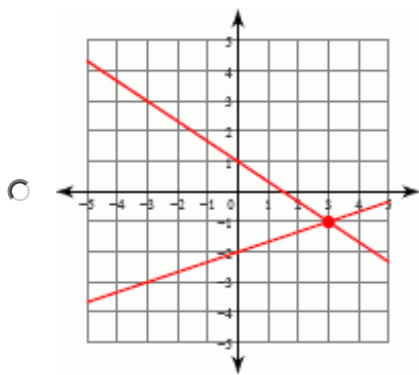
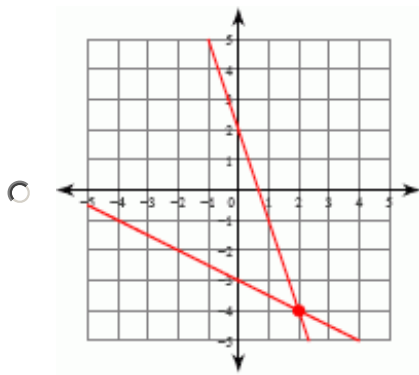
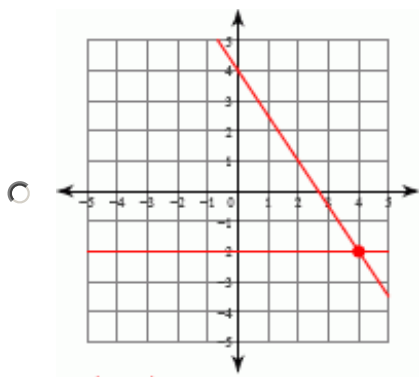


Question 6:

Solve the system of equations by graphing.

$$y = -2$$

$$y = -\frac{3}{2}x + 4$$

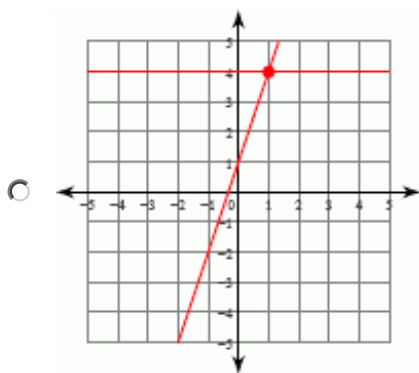
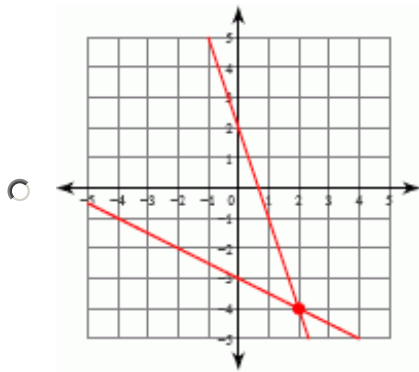
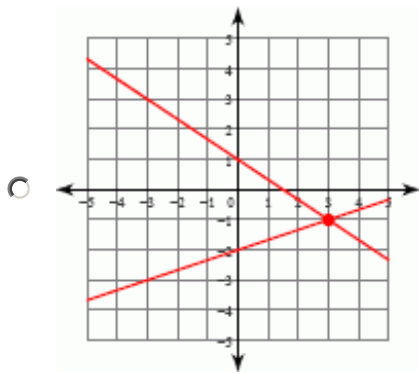
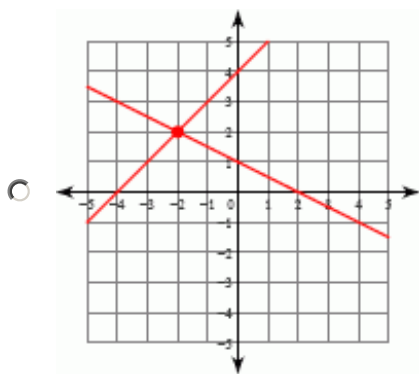


Question 7:

Solve the system of equations by graphing.

$$y = 4$$

$$y = 3x + 1$$

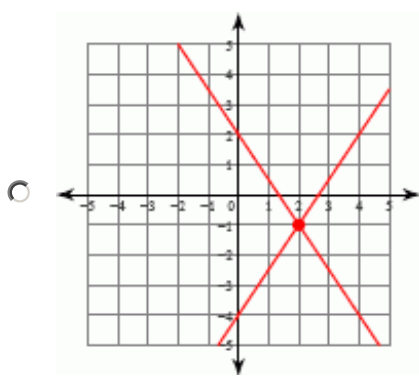
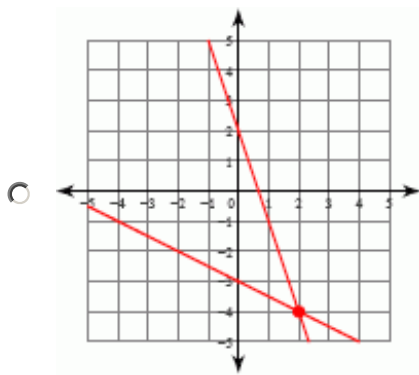
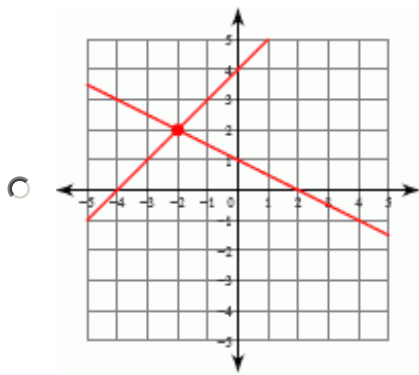
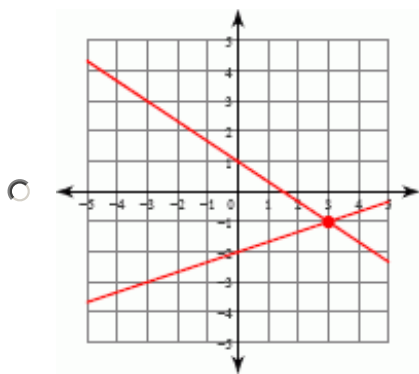


Question 8:

Solve the system of equations by graphing.

$$y = \frac{1}{3}x - 2$$

$$y = -\frac{2}{3}x + 1$$

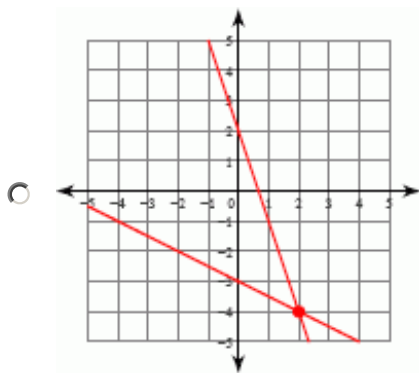
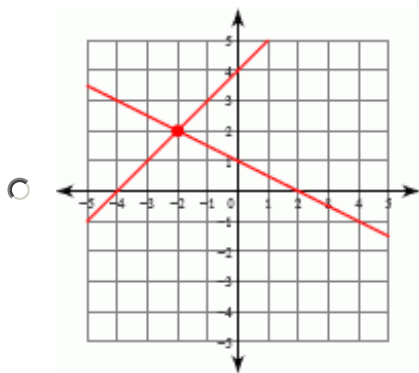
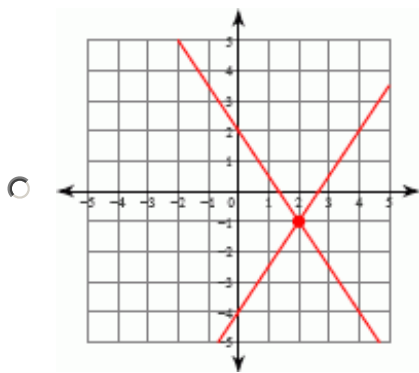
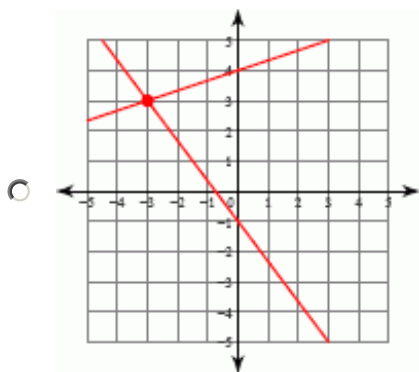


Question 9:

Solve the system of equations by graphing.

$$y = -\frac{1}{2}x - 3$$

$$y = -3x + 2$$



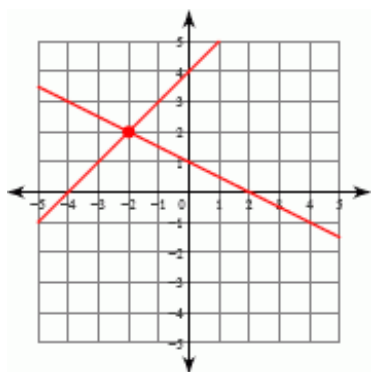
Question 10:

Solve the system of equations by graphing.

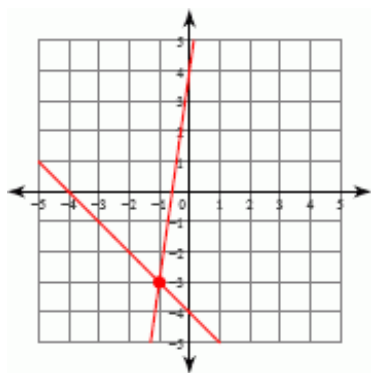
$$y = -\frac{1}{2}x + 1$$

$$y = x + 4$$

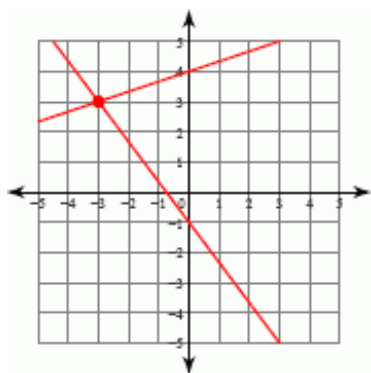
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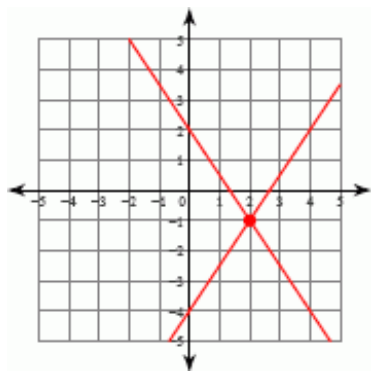
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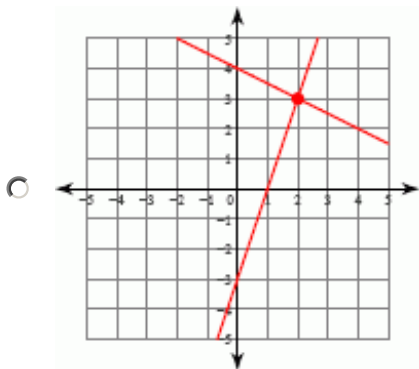
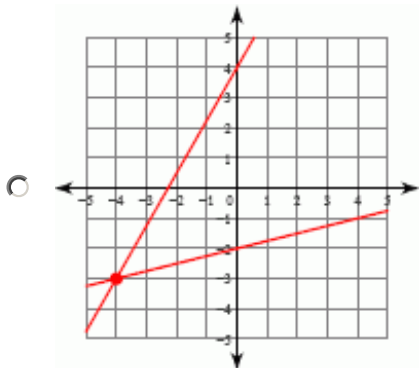
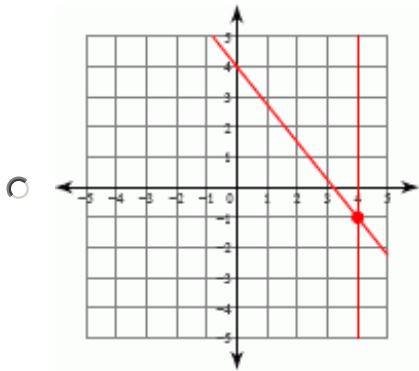
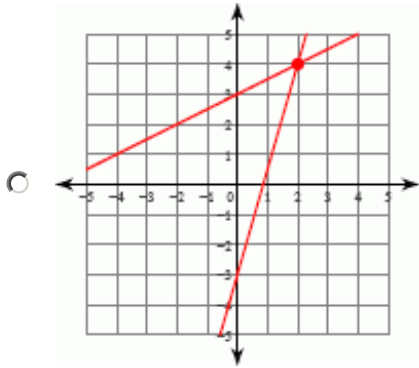
Lesson Topic: Solve a system of equations by graphing (part 2)

Question 1:

Solve the system of equations by graphing.

$$6x - 2y = 6$$

$$x + 2y = 8$$

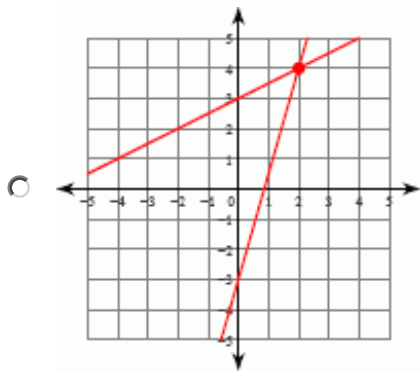
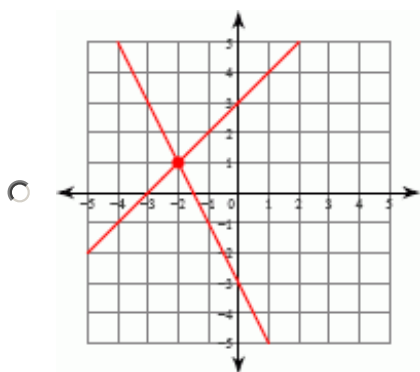
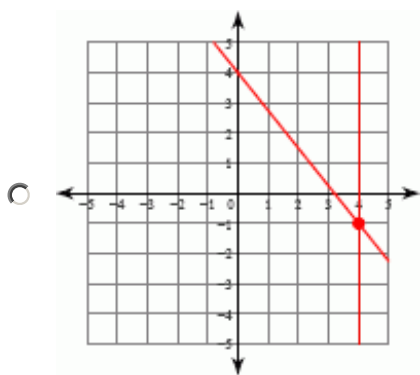
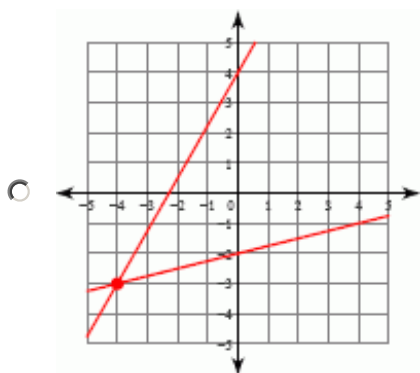


Question 2:

Solve the system of equations by graphing.

$$5x + 4y = 16$$

$$x = 4$$

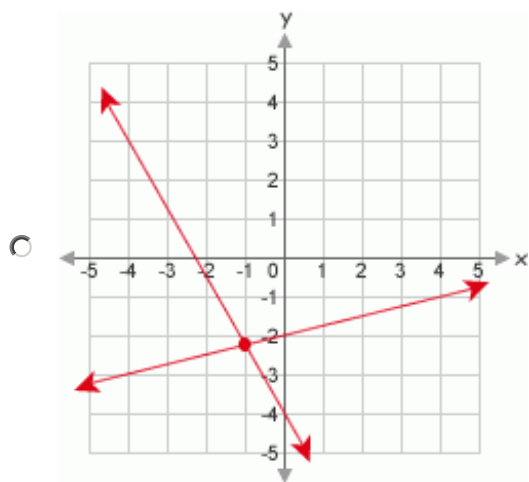
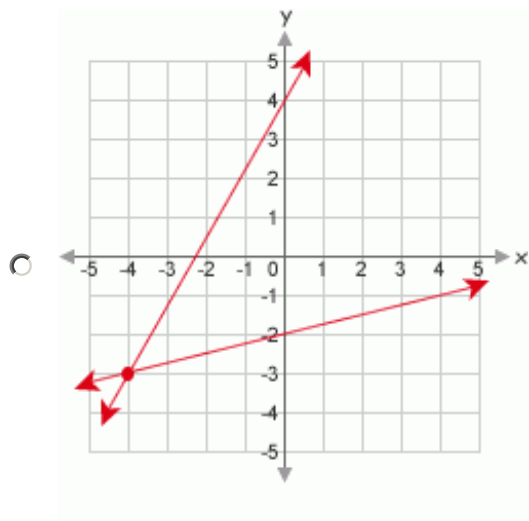
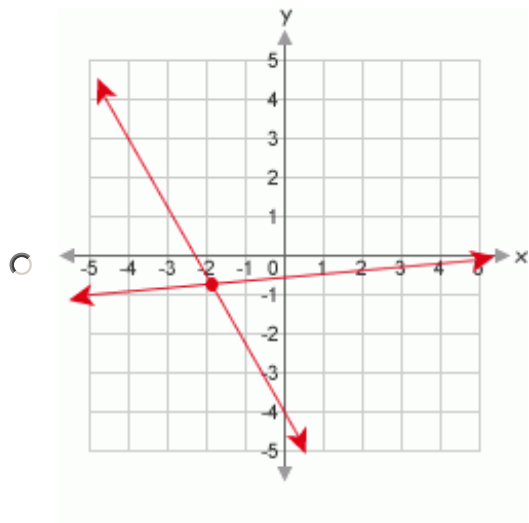


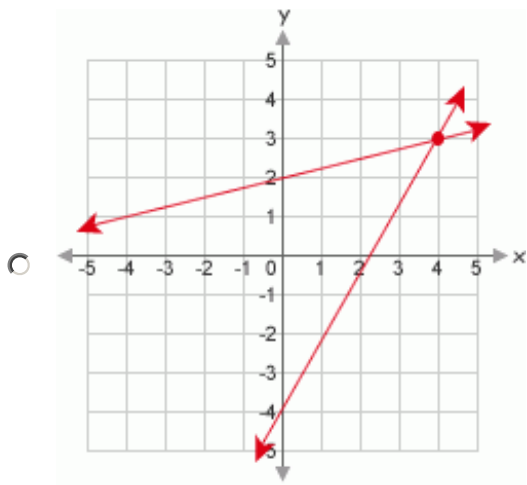
Question 3:

Solve the system of equations by graphing.

$$-\frac{1}{4}x + y = -2$$

$$7x - 4y = -16$$



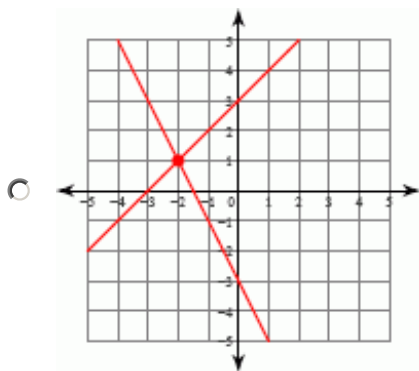
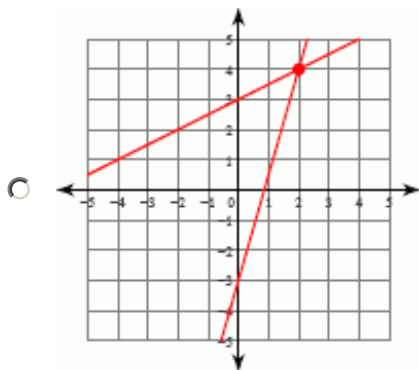


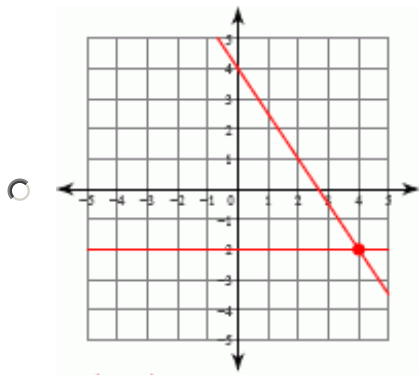
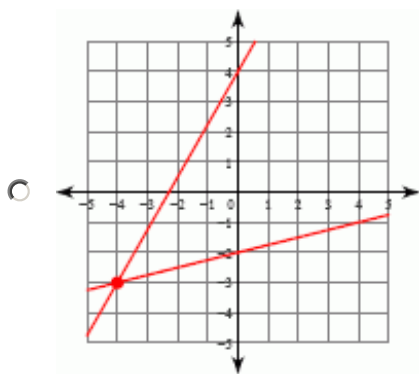
Question 4:

Solve the system of equations by graphing.

$$7x - 2y = -6$$

$$-3x + 6y = 18$$



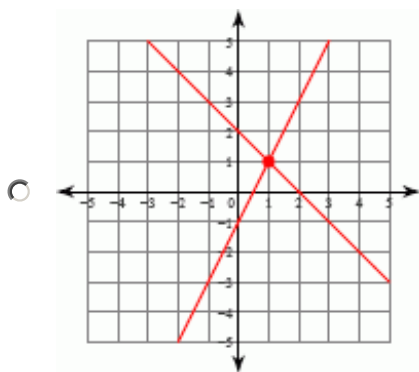
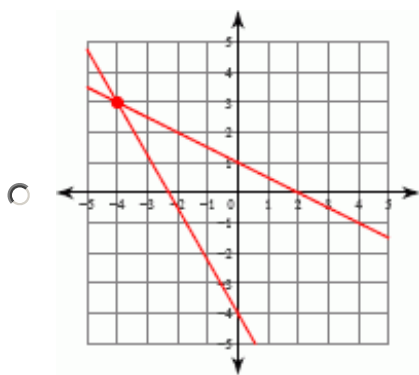


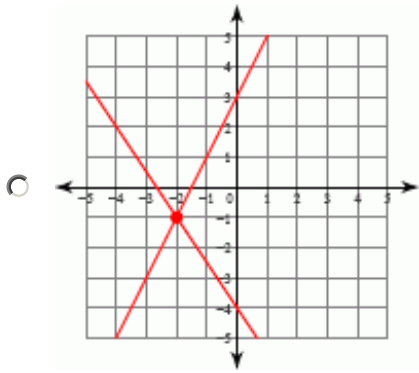
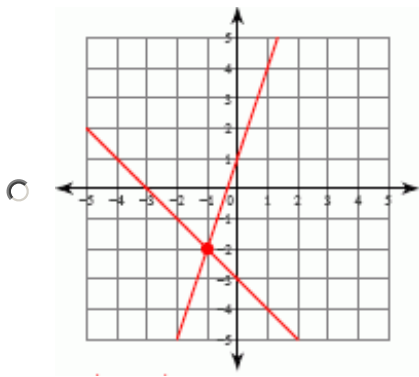
Question 5:

Solve the system of equations by graphing.

$$-3x - 3y = 9$$

$$-3x + y = 1$$



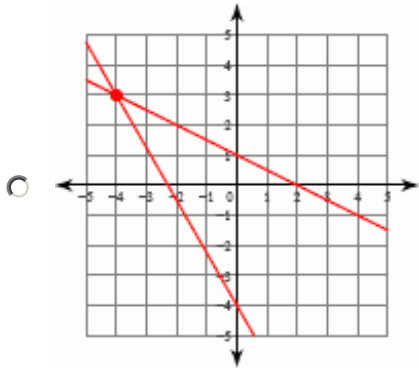
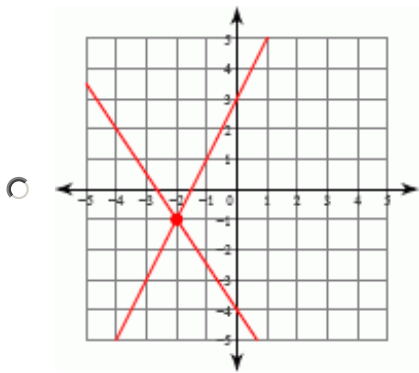


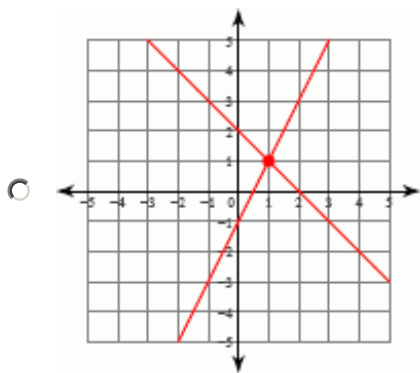
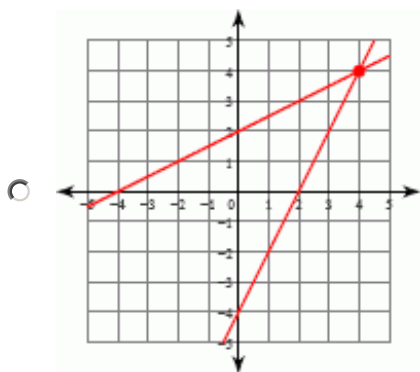
Question 6:

Solve the system of equations by graphing.

$$x + 2y = 2$$

$$7x + 4y = -16$$



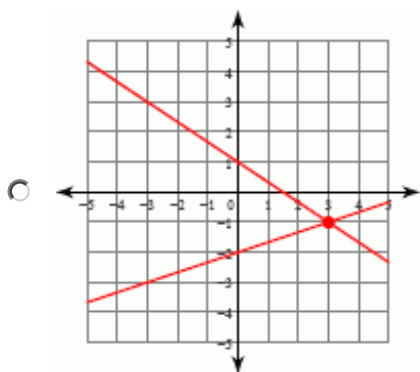
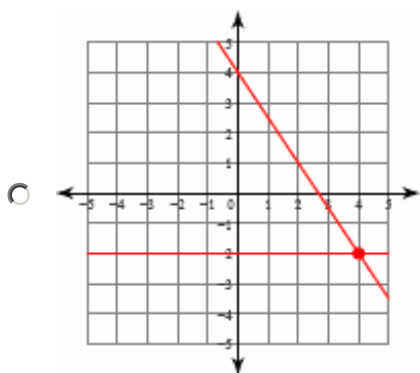


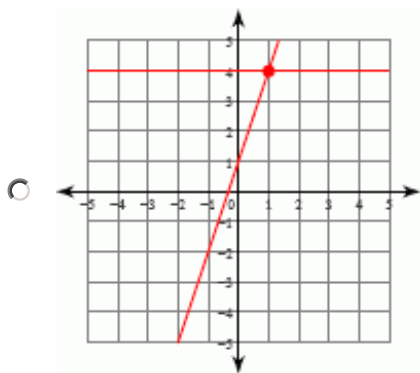
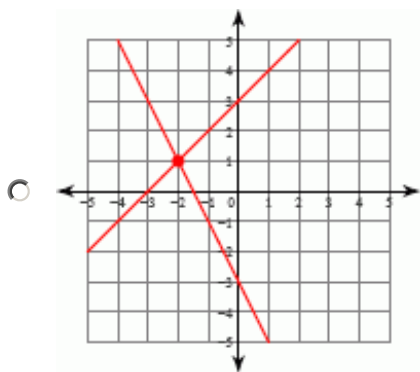
Question 7:

Solve the system of equations by graphing.

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

$$x - y = -3$$



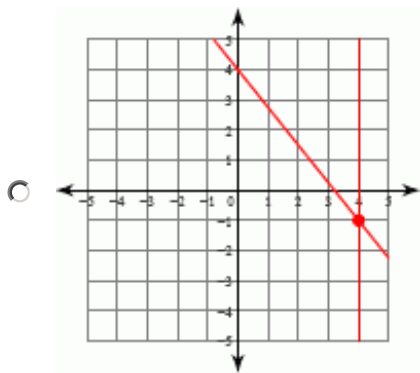
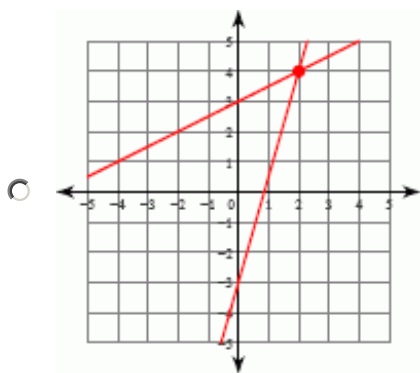


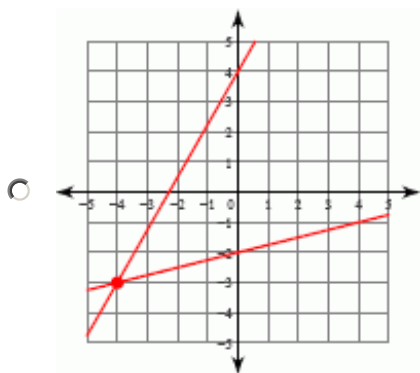
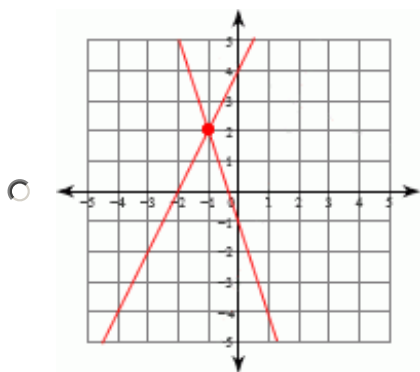
Question 8:

Solve the system of equations by graphing.

$$-3x - y = 1$$

$$2x - y = -4$$



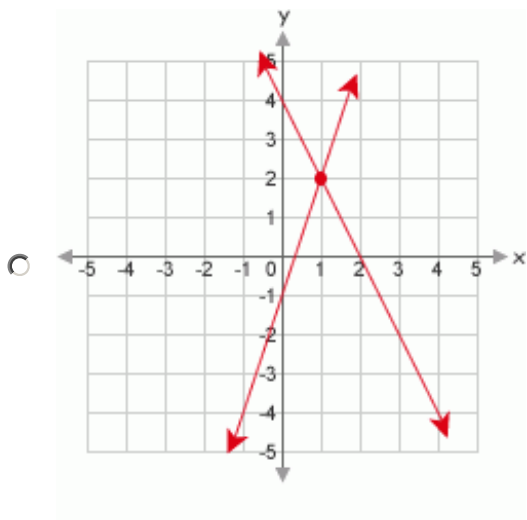


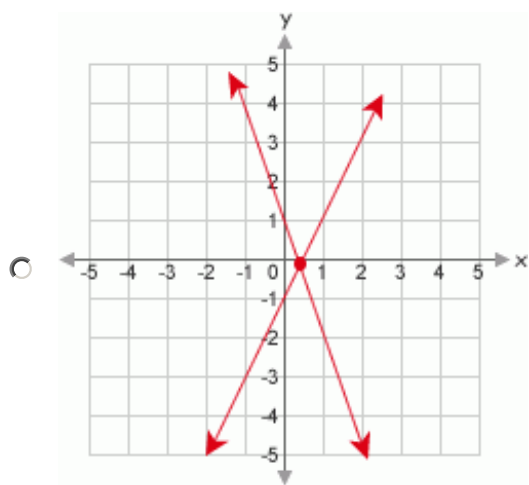
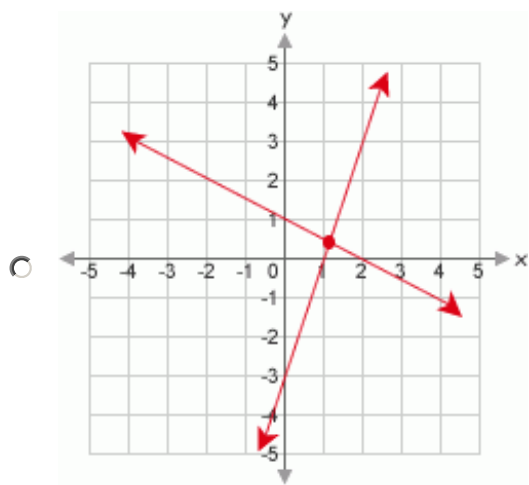
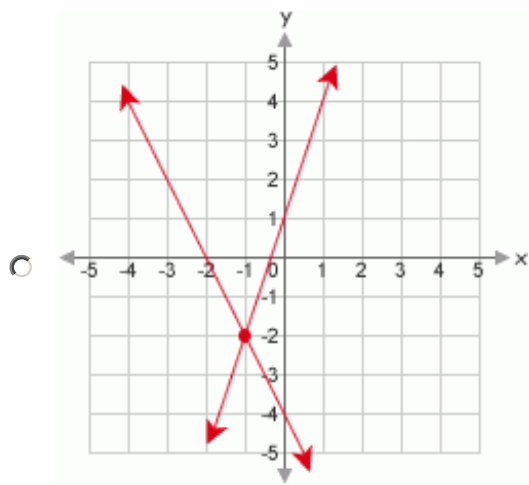
Question 9:

Solve the system of equations by graphing.

$$9x - 3y = 3$$

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





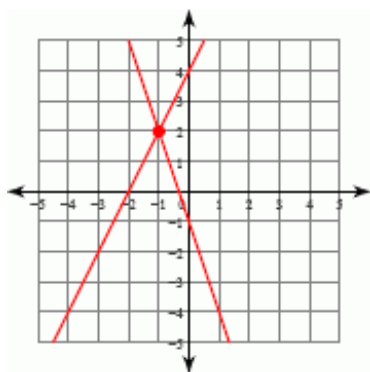
Question 10:

Solve the system of equations by graphing.

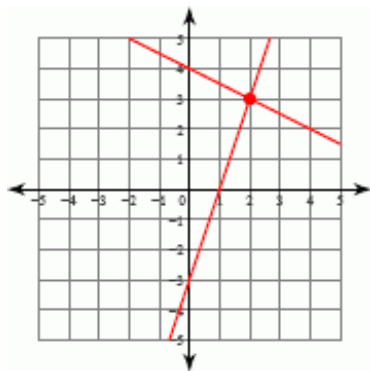
$$x - 2y = -4$$

$$2x - y = 4$$

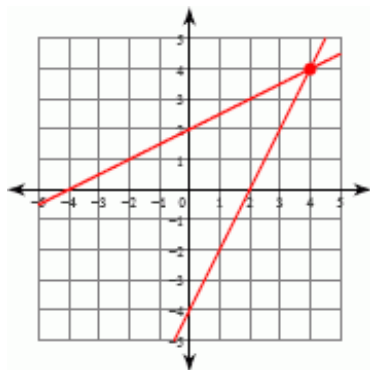
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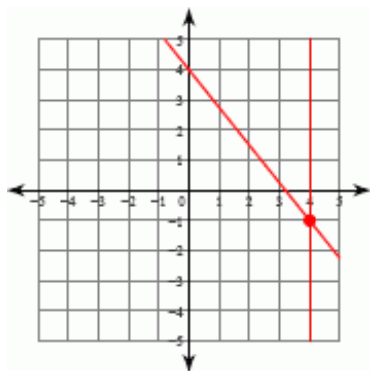
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Lesson Topic: Solve a system of equations using substitution

Question 1:

Solve the system of equations using the substitution method.

$$-5x - 3y = 16$$

$$y = x$$

$$(x, y) = (\boxed{}, \boxed{})$$

Question 2:

Solve the system of equations using the substitution method.

$$-7x - 4y = -11$$

$$y = x$$

$$(x, y) = (\boxed{}, \boxed{})$$

Question 3:

Solve the system of equations using the substitution method.

$$7x + 8y = 0$$

$$y = -6x$$

$$(x, y) = (\boxed{}, \boxed{})$$

Question 4:

Solve the system of equations using the substitution method.

$$y = -8x$$

$$-5x + 4y = 0$$

$$(x, y) = (\boxed{}, \boxed{})$$

Question 5:

Solve the system of equations using the substitution method.

$$2x - y = -10$$

$$y = 4x$$

$$(x, y) = (\boxed{}, \boxed{})$$

Question 6:

Solve the system of equations using the substitution method.

$$y = -7x$$

$$-7x - 2y = -7$$

$$(x, y) = (\square, \square)$$

Question 7:

Solve the system of equations using the substitution method.

$$y = -2x$$

$$-3x + 3y = -18$$

$$(x, y) = (\square, \square)$$

Question 8:

Solve the system of equations using the substitution method.

$$y = -2x$$

$$-5x - 7y = 0$$

$$(x, y) = (\square, \square)$$

Question 9:

Solve the system of equations using the substitution method.

$$y = 8x$$

$$-5x + 3y = 19$$

$$(x, y) = (\square, \square)$$

Question 10:

Solve the system of equations using the substitution method.

$$-4x + 2y = 0$$

$$y = -2x$$

$$(x, y) = (\square, \square)$$

Correct Answers

Lesson: Linear Equations

Lesson Topic: Find the y-intercept of a line on a graph

Question 1:

1

Question 2:

2

Question 3:

3

Question 4:

-3

Question 5:

-2

Question 6:

4

Question 7:

-1

Question 8:

3

Question 9:

-5

Question 10:

-3

Lesson Topic: Define slope

Question 1:

MC1

Question 2:

MC2

Question 3:

MC3

Question 4:

MC1

Question 5:

MC2

Question 6:

MC1

Question 7:

MC2

Question 8:

MC3

Question 9:

MC1

Question 10:

MC2

Lesson Topic: Identify positive and negative slope on a graph

Question 1:

MC1

Question 2:

MC3

Question 3:

MC4

Question 4:

MC2

Question 5:

MC4

Question 6:

MC1

Question 7:

MC2

Question 8:

MC1

Question 9:

MC1

Question 10:

MC2

Lesson Topic: Find the positive slope of a line on a graph Part 1

Question 1:

$\frac{1}{2}$

Question 2:

$\frac{1}{3}$

Question 3:

$\frac{3}{4}$

Question 4:

$\frac{1}{4}$

Question 5:

$\frac{2}{5}$

Question 6:

$$\frac{2}{3}$$

Question 7:

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

Question 8:

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

Question 9:

$$\frac{1}{3}$$

Question 10:

$$2$$

Lesson Topic: Find the positive slope of a line on a graph Part 2

Question 1:

$$3$$

Question 2:

$$1$$

Question 3:

$$2$$

Question 4:

$$1$$

Question 5:

$$1$$

Question 6:

$$3$$

Question 7:

$$4$$

Question 8:

$$4$$

Question 9:

$$5$$

Question 10:

$$5$$

Lesson Topic: Find the negative slope of a line on a graph Part 1

Question 1:

$$-1|$$

Question 2:

Question 3:

Question 4:

$$-4|$$

Question 5:

-0.6666|

Question 6:

Question 7:

Question 8:

Question 9:

Question 10:

Lesson Topic: Find the negative slope of a line on a graph Part 2

Question 1:

Question 2:

Question 3:

Question 4:

Question 5:

Question 6:

Question 7:

Question 8:

Question 9:

-.3333

Question 10:

Lesson Topic: Find positive and negative slopes of a line on a graph

Question 1:

MC3

Question 2:

-.5

Question 3:

MC2

Question 4:

1.1666

Question 5:

-1.5

Question 6:

MC3

Question 7:

2.5

Question 8:

MC3

Question 9:

1

Question 10:

-4

Lesson Topic: Find slope and intercept in an equation Part 1

Question 1:

The slope of the equation is **1**. The y-intercept of the equation is **2**.

Question 2:

The slope of the equation is **6**. The y-intercept of the equation is **5**.

Question 3:

The slope of the equation is **1**. The y-intercept of the equation is **8**.

Question 4:

The slope of the equation is **7**. The y-intercept of the equation is **9**.

Question 5:

The slope of the equation is **2**. The y-intercept of the equation is **11**.

Question 6:

The slope of the equation is **2**. The y-intercept of the equation is **5**.

Question 7:

The slope of the equation is $\frac{1}{4}$. The y-intercept of the equation is **1**.

Question 8:

The slope of the equation is $\frac{7}{8}$. The y-intercept of the equation is **4**.

Question 9:

The slope of the equation is **5**. The y-intercept of the equation is **5**.

Question 10:

The slope of the equation is **5**. The y-intercept of the equation is **4**.

Lesson Topic: Find slope and intercept in an equation Part 2

Question 1:

The slope of the equation is **-3**. The y-intercept of the equation is **-1**.

Question 2:

The slope of the equation is **-1**. The y-intercept of the equation is **-7**.

Question 3:

The slope of the equation is **-1**. The y-intercept of the equation is **-10**.

Question 4:

The slope of the equation is **-2**. The y-intercept of the equation is **-4**.

Question 5:

The slope of the equation is **-4**. The y-intercept of the equation is **-1**.

Question 6:

The slope of the equation is $-\frac{1}{5}$. The y-intercept of the equation is **-2**.

Question 7:

The slope of the equation is $-\frac{1}{2}$. The y-intercept of the equation is **-9**.

Question 8:

The slope of the equation is $-\frac{3}{8}$. The y-intercept of the equation is **-1**.

Question 9:

The slope of the equation is $-\frac{3}{2}$. The y-intercept of the equation is **-3**.

Question 10:

The slope of the equation is **-4**. The y-intercept of the equation is **-5**.

Lesson Topic: Find slope and intercept in an equation Part 3

Question 1:

The slope of the equation is **3**. The y-intercept of the equation is **-1**.

Question 2:

The slope of the equation is **-2**. The y-intercept of the equation is **6**.

Question 3:

The slope of the equation is **1**. The y-intercept of the equation is **-3**.

Question 4:

The slope of the equation is **-5**. The y-intercept of the equation is **10**.

Question 5:

The slope of the equation is **-1**. The y-intercept of the equation is **4**.

Question 6:

The slope of the equation is $\frac{3}{4}$. The y-intercept of the equation is **-5**.

Question 7:

The slope of the equation is **6**. The y-intercept of the equation is **-1**.

Question 8:

The slope of the equation is $\frac{1}{2}$. The y-intercept of the equation is **-7**.

Question 9:

The slope of the equation is $-\frac{1}{3}$. The y-intercept of the equation is **8**.

Question 10:

The slope of the equation is **8**. The y-intercept of the equation is **-9**.

Lesson Topic: Write linear equations in slope-intercept form Part 1

Question 1:

MC4

Question 2:

MC5

Question 3:

MC2

Question 4:

MC2

Question 5:

MC1

Question 6:

MC1

Question 7:

MC4

Question 8:

MC1

Question 9:

MC3

Question 10:

MC4

Lesson Topic: Write linear equations in slope-intercept form Part 2

Question 1:

MC3

Question 2:

MC4

Question 3:

MC2

Question 4:

MC3

Question 5:

MC3

Question 6:

MC2

Question 7:

MC1

Question 8:

MC3

Question 9:

MC2

Question 10:

MC1

Lesson Topic: Write linear equations in slope-intercept form Part 3

Question 1:

MC2

Question 2:

MC4

Question 3:

MC4

Question 4:

MC1

Question 5:

MC1

Question 6:

MC1

Question 7:

MC2

Question 8:

MC1

Question 9:

MC3

Question 10:

MC4

Lesson Topic: Rewrite equations in slope-intercept form to find the slope and y-intercept

Question 1:

MC2

Question 2:

MC3

Question 3:

MC1

Question 4:

MC3

Question 5:

MC1

Question 6:

MC4

Question 7:

MC1

Question 8:

MC3

Question 9:

MC2

Question 10:

MC5

Lesson Topic: Write linear equations in slope-intercept form using graphs

Question 1:

$$y = 1x + (-3)$$

$$y = x - 3$$

Question 2:

$$y = (1/2)x + 2$$

Question 3:

$$y = (1/4)x + 3$$

Question 4:

$$y = -2x + 4$$

Question 5:

$$y = -3x + 1$$

Question 6:

$$y = 3x + 4$$

Question 7:

$$y = -3x + (-5)$$

$$y = -3x - 5$$

Question 8:

$$y = (3/5)x + -2 \quad y = (3/5)x - 2$$

Question 9:

$$y = 1/3x + 2$$

Question 10:

$$y = 2x + (-1)$$

$$y = 2x - 1$$

Lesson Topic: Graph linear equations Part 1

Question 1:

MC4

Question 2:

MC4

Question 3:

MC1

Question 4:

MC2

Question 5:

MC2

Question 6:

MC4

Question 7:

MC2

Question 8:

MC2

Question 9:

MC3

Question 10:

MC1

Lesson Topic: Graph linear equations Part 2

Question 1:

MC2

Question 2:

MC1

Question 3:

MC1

Question 4:

MC1

Question 5:

MC4

Question 6:

MC2

Question 7:

MC4

Question 8:

MC2

Question 9:

MC1

Question 10:

MC1

Lesson Topic: Determine x- and y-intercept

Question 1:

$y = 2x - \frac{1}{2}$ When $y = 0$, $x = \frac{1}{4}$ x-intercept = $(\frac{1}{4}, 0)$

Question 2:

$y = 1.3 - 0.1x$ When $x = 0$, $y = 1.3$ y-intercept = $(0, 1.3)$

Question 3:

MC3

Question 4:

$y = -3 - \frac{4}{7}x$ When $y = 0$, $x = -\frac{21}{4}$. x-intercept = $(-\frac{21}{4}, 0)$

Question 5:

$y = 1.3 - 0.1x$ When $y = 0$, $x = 13$. x-intercept = $(13, 0)$

Question 6:

$y = 2x - \frac{1}{2}$ When $x = 0$, $y = -\frac{1}{2}$. y-intercept = $(0, -\frac{1}{2})$

Question 7:

MC2

Question 8:

$1\frac{1}{3}$

Question 9:

-6

Question 10:

$y = -3 - \frac{4}{7}x$ When $x = 0$, $y = -3$. y -intercept = $(0, -3)$

Lesson Topic: Calculate the slope with decimals and fractions

Question 1:

MC3

Question 2:

MC4

Question 3:

MC2

Question 4:

MC4

Question 5:

MC3

Question 6:

MC1

Question 7:

MC1

Question 8:

MC2

Question 9:

MC4

Question 10:

MC1

Lesson: Solving Systems of Equations

Lesson Topic: Solve a system of equations by graphing (part 1)

Question 1:

MC2

Question 2:

MC2

Question 3:

MC1

Question 4:

MC1

Question 5:

MC2

Question 6:

MC1

Question 7:

MC4

Question 8:

MC1

Question 9:

MC4

Question 10:

MC1

Lesson Topic: Solve a system of equations by graphing (part 2)**Question 1:**

MC4

Question 2:

MC2

Question 3:

MC2

Question 4:

MC1

Question 5:

MC3

Question 6:

MC2

Question 7:

MC3

Question 8:

MC3

Question 9:

MC1

Question 10:

MC3

Lesson Topic: Solve a system of equations using substitution**Question 1:**

<u>First Substitution</u>	$-5x - 3(x) = 16$	$-8x = 16$	$x = -2$	<u>Second Substitution</u>	$y = (-2)$
$y = -2$ <u>Answer</u>	$(x, y) = (-2, -2)$				

Question 2:

<u>First Substitution</u>	$-7x - 4(x) = -11$	$-11x = -11$	$x = 1$	<u>Second Substitution</u>	$y = (1)$
$y = 1$ <u>Answer</u>	$(x, y) = (1, 1)$				

Question 3:

<u>First Substitution</u>	$7x + 8(-6x) = 0$	$-41x = 0$	$x = 0$	<u>Second Substitution</u>	$y = -$
$6(0)$ $y = 0$ <u>Answer</u>	$(x, y) = (0, 0)$				

Question 4:

<u>First Substitution</u>	$-5x + 4(-8x) = 0$	$x = 0$	<u>Second Substitution</u>	$y = -8(0)$	$y = 0$ <u>Answer</u>
$(x, y) = (0, 0)$					

Question 5:

$$\begin{array}{llll} \text{First Substitution} & 2x - (4x) = -10 & -2x = -10 & x = 5 \text{ Second Substitution} \\ y = 20 \text{ Answer} & (x, y) = (5, 20) & & y = 4(5) \end{array}$$

Question 6:

$$\begin{array}{llll} \text{First Substitution} & -7x - 2(-7x) = -7 & 7x = -7 & x = -1 \text{ Second Substitution} \\ = -7(-1) & y = 7 \text{ Answer} & & y \end{array}$$

$$(x, y) = (-1, 7)$$

Question 7:

$$\begin{array}{llll} \text{First Substitution} & -3x + 3(-2x) = -18 & -9x = -18 & x = 2 \text{ Second Substitution} \\ y = -2(2) & y = -4 \text{ Answer} & & \end{array}$$

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

Question 8:

$$\begin{array}{llll} \text{First Substitution} & -5x - 7(-2x) = 0 & 9x = 0 & x = 0 \text{ Second Substitution} \\ -2(0) & y = 0 \text{ Answer} & & y = \end{array}$$

$$(x, y) = (0, 0)$$

Question 9:

$$\begin{array}{llll} \text{First Substitution} & -5x + 3(8x) = 19 & 19x = 19 & x = 1 \text{ Second Substitution} \\ 8(1) & y = 8 \text{ Answer} & & y = \end{array}$$

$$(x, y) = (1, 8)$$

Question 10:

$$\begin{array}{llll} \text{First Substitution} & -4x + 2(-2x) = 0 & x = 0 \text{ Second Substitution} & y = -2(0) \\ (x, y) = (0, 0) & & & y = 0 \text{ Answer} \end{array}$$