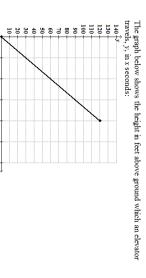
ExamView



What is the rate of change for the relationship represented in the graph?

a. 29

c. 36

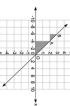
b. 27

d. 30

vl_pre-alg_08_10_examples_notes.gwb - 3/30 - Wed Nov 02 2016 17:24:04



The figure below shows a line graph and two shaded triangles that are similar.



Which statement about the slope of the line is true?

- a. It is $-\frac{1}{2}$ throughout the line.
- b. The slope from point O to point A is $\frac{1}{2}$ times the slope of the line from point
- A to point B.

 a. It is —2 throughout the line.

 d. The slope from point O to point A is two times the slope of the line from point A to point B.

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ExamView

The table and the graph below each show a different relationship between the same two variables, x and y:

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How much less would the value of y be on the graph than its value in the table when x = 12?

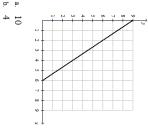
a. 12 b. 8

c. 7 d. 14

ExamView

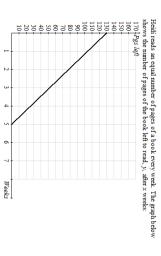
vl_pre-alg_08_10_examples_notes.gwb - 4/30 - Wed Nov 02 2016 17:24:41

Based on the graph, what is the initial value of the linear relationship?



6 6 9

а. 6.



Which equation best shows the relationship between x and y?

b.
$$y = -5x + 130$$

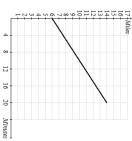
c. y = -5x - 26d. y = -26x + 130

a. y = -26x + 120b. y = -5x + 130

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ExamView 3

The graph below shows the distance, y, in miles, of a bee from its live, for a certain amount of time, x, in minutes:



Based on the graph, what is the initial value of the graph and what does it represent?

- a finite, it represents the original distance of the bee from its live
 b. 0.6 mile per munule; it represents the speed of the bee
 c. 0.6 mile; it represents the original distance of the bee from its live
 d. 6 miles per minute; it represents the speed of the bee

vl_pre-alg_08_10_examples_notes.gwb - 6/30 - Wed Nov 02 2016 17:27:10



charges, y, in dollars, of renting gym equipment for x number of days: Rent-All rents gym equipment for a fixed amount plus a fee based on the number of days for which the equipment is rented. The table shows the total

Equipment Rental

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_					
4	3	2	1	0	Number of days (x)
69	56	43	30	17	Rent in dollars (y)

What is

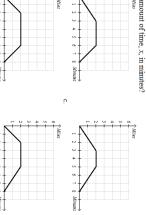
\$13	\$4	hat is the fixed amount charged?
<u>d</u>	c.	
d. \$17	\$30	

ExamView

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A truck travels from a factory to a gas station in 2 minutes. It stops at the gas station for 4 minutes. The truck then returns to the factory in 2 minutes. Which graph best represents the distance, y, in miles, of the truck from the factory after a certain amount of time, x, in minutes?

A Moor

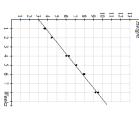


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The graph shows the heights, y (in centimeters), of plants after a certain number of weeks, x. Jason drew the line of best fit on the graph. What would most likely be the approximate height of the plants after 9 weeks?

a. 10.2 b. 12.6 c. 8.5 d. 8.7

vi_pre-alg_08_10_examples_notes.gwb - 15/30 - Wed Nov 02 2016 17:35:59



dodgeball and ping pong? The table shows the number of students in a school who like dodgeball and/or ping pong. What is the relative frequency, by row, of students who like both

Total	Don't Like Ping-Pong	Like Ping-Pong	
90	40	50	Like Dodgeball
104	51	53	Don't Like Dodgeball
194	91	103	Total

49.5% 45.5%

ġ.

d c 48.5% 50.5%

alg_08_10_examples_notes.gwb - 14/30 - Wed Nov 02 2016 17:34:53



_	_	_	_
Total	Don't Have Asthma	Have Asthma	
92	44	48	Have Allergies
119	???	43	Don't Have Allergies
211	120	91	Total

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The table shows the number of students in a school who have allergies and/or have asthma. What is the missing number in the table?

a. 76 73

<u>d</u> 60 70

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Steve solved an equation incorrectly, as shown below:

Step 1: 30 + k = 65?

Step 2: k = 65 + 30

Step 3: k = 35

Which statement best explains why Step 2 is incorrect in Steve's solution?

b. a. He did not add 30 to 65.
b. He did not multiply 65 by 30.
c. He did not subtract 30 from 65.
d. He did not divide 65 by 30.

c.

How many solutions can be found in the equation 27 + 13k = 27 + 13k?

Two

<u>6</u>

Zero

c. Oned. Infinitely many

ExamView

What is the value of x in the equation 3(2x-5)+5=128

.Б 23 29

24 26

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How many solutions can be found in the equation -4k + 4 = 4(k - 2k) + 4?

d. c Two

ġ. Infinitely many

One

An equation is shown below:

ExamView

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4(8k-7) = 132

Which of the following correctly shows the beginning steps to solve this equation?

a. Step 1: 32k-7=132Step 2: 32k=139

c. Step 1: 32k - 7 = 132Step 2: 12k = 139d. Step 1: 8k - 3 = 132Step 2: 8k = 135

b. Step 1: 32k - 28 = 132Step 2: 32k = 160

How many solutions can be found in the equation -35n + 6 = 5(n - 8n) + 6?

- a. Infinitely many
- b. One

c. Zero d. Two

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How many solutions can be found in the equation -22.8n + 8.5 = 5.7(n - 5n) + 8.5?

- a Zer
- b. Infinitely many

c. One d. Two

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The steps below show the incomplete solution to find the value of x in the equation.

$$5x - 2x - 9 = -6 + 11$$

Step 1:
$$5x - 2x - 9 = -6 + 11$$

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Step 2:
$$5x - 2x - 9 = 7$$

Step 3:
$$3x - 9 = 5$$

Step 4:
$$3x = 14$$

In which step did the student first make an error?

c. Step 4 d. Step 3

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ExamView

What is the solution to the equation?

$$\frac{3}{7}t - \frac{14}{7} = \frac{4}{7}t$$

Two lines, M and N, are represented by the following equations:

Line M: x - y = 17

Line N: 2x - y = 25

Which of the following options shows the solution to the system of equations and explains why?

- (8, -9), because the point lies between the two axes (8, -9), because one of the lines passes through this point (8, -9), because the point does not lie on any axis
- <u>е</u> с
- (8, -9), because both lines pass through this point

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ExamView

A set of equations is given below:

$$y = -4x - 6$$

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

Which of the following steps can be used to find the solution to the set of equations?

a.
$$-3(-4x-6)+4=-8x$$

c.
$$-3(y = -4x - 6)$$

a.
$$-3(-4x-6)+4=-8x$$

b. $-3(y=-4x-6)+4=-8x$

$$-3(y = -4x - 0)$$

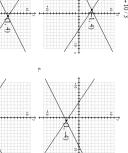
-4x - 6 = -3y + 4

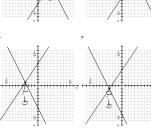
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ExamView

$$a - 2b = -2$$

$$-2a+b=-8$$

the system given above? Which of the following ordered pairs, written as (a, b), represents the solution to

a.
$$(-6, -4)$$

b. $(-6, 4)$

A student is trying to solve the system of two equations given below:

$$a+b=-1$$

$$6a + 4b = -16$$

Which of the following steps can be used to eliminate the ${\bf a}$ term by adding the equations?

a.
$$-6(6a+4b=-16)$$

b. $6(a+b=-1)$

c.
$$-6(a+b=-1)$$

d. $6(6a+4b=-16)$

Variable x is 6 more than variable y. Variable x is also 12 less than y. Which of the following pairs of equations best models the relationship between x and y?

Which of the following statements is a correct step to find x and y?

a.
$$x=y-6$$

a.
$$x = y - 6$$
$$x = y - 12$$

b.
$$x = y - 6$$

 $x = y + 12$

c.
$$x = y + 6$$

 $x = y - 12$

d. x=y+6

x = y + 12