

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

a. 26

c. 25

b. 30

d. 28

vl_pre-alg_05_07_examples_notes.gwb - 3/16 - Mon Oct 31 2016 17:51:45

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=14?

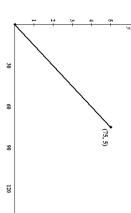
a. 30 b. 28

c. 34 d. 24

ExamView

The graph shows the number of sprays an automatic air freshener dispenses, y_i in x minutes:

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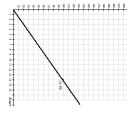
Which expression is equivalent to the rate per minute at which the air freshener dispenses sprays?

a. 2/30 b. 2/35

c. 1/35 d. 1/30

ExamView

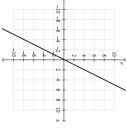
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Which equation does the graph below represent?



a.
$$y = -3x$$

b. $y = -2x$

c.
$$y = 3x$$

d. $y = 2x$

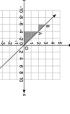
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ExamView 3

What is the initial value of the equation shown? y = -5x + 2

ExamView

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



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Which statement about the slope of the line is true?

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

vl_pre-alg_05_07_examples_notes.gwb - 8/16 - Mon Oct 31 2016 17:58:19



a. 12 b. 6 What is the initial value of the function represented by the graph? (0, 12) d c



has to pay for renting the tent for x days: renting the tent. The table shows the amount of money, y, in dollars, that Bobby Bobby wants to rent a tent. He has to pay a fixed base cost plus a daily rate for

Tent Rental

16	4
13	3
10	2
7	1
4	0
Rent in dollars (y)	Number of days (x)

Which equation best shows the relationship between x and y?

a.
$$y = 3x + 7$$

b. $y = x + 4$

c.
$$y = x + 7$$

d. $y = 3x + 4$

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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

119	4
98	3
77	2
56	1
35	0
Rent in dollars (y)	Number of days (x)

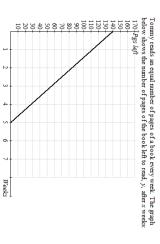
What is the fixed amount charged?

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Which equation best shows the relationship between x and y?

a.
$$y = -5x + 140$$

b. $y = -5x - 28$

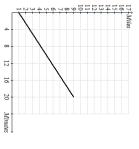


ExamView

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



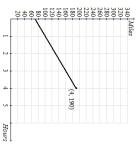


Based on the graph, what is the initial value of the graph and what does it represent?

- 1 miles per minute; it represents the speed of the bee
 0.1 mile per minute; it represents the speed of the bee
 1 miles; it represents the original distance of the bee from its live
 0.1 mile; it represents the original distance of the bee from its live



The graph below shows the distance, y_i in miles, of a moving train from a station over a certain amount of time, x_i in hours:



What is the speed, mph (miles per hour), of the train and vity?

2.70 mph, because speed is the mittal value of the function

1.20 mph, because speed is the distance traveled in unit time

1.10 mph, because speed is the distance traveled in four hours

4.30 mph, because speed is the rate of charge of distance

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The graph shown represents the water level in Kayla's bathtub as a function of



Which description would best explain what was happening during Kayla's bath during segment LR on the graph?

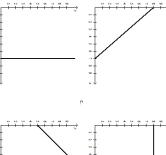


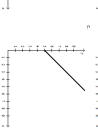


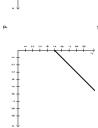


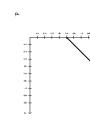


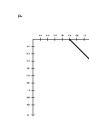
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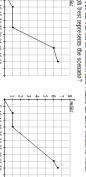


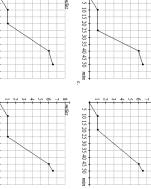


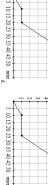












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