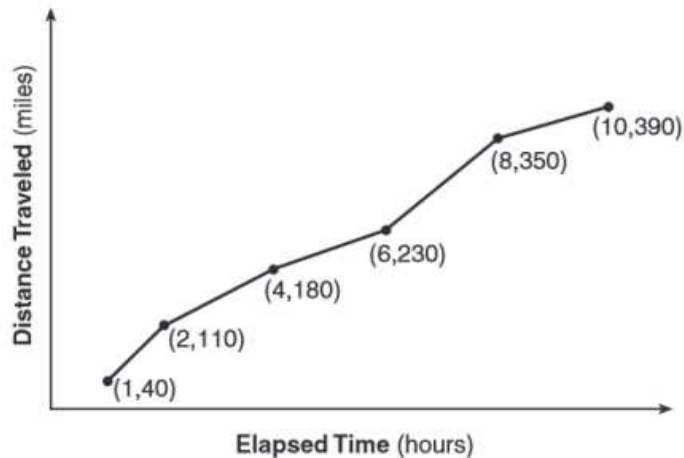


Name _____

- 1 The Jamison family kept a log of the distance they traveled during a trip, as represented by the graph below.



During which interval was their average speed the greatest?

- (1) the first hour to the second hour
 - (2) the second hour to the fourth hour
 - (3) the sixth hour to the eighth hour
 - (4) the eighth hour to the tenth hour
- 2 When solving the equation $4(3x^2 + 2) - 9 = 8x^2 + 7$, Emily wrote $4(3x^2 + 2) = 8x^2 + 16$ as her first step. Which property justifies Emily's first step?
- (1) addition property of equality
 - (2) commutative property of addition
 - (3) multiplication property of equality
 - (4) distributive property of multiplication over addition

- 3 Which value of x satisfies the equation $\frac{7}{3}\left(x + \frac{9}{28}\right) = 20$?

- (1) 8.25
- (2) 8.89
- (3) 19.25
- (4) 44.92

- 4 A company that manufactures radios first pays a start-up cost, and then spends a certain amount of money to manufacture each radio. If the cost of manufacturing r radios is given by the function $c(r) = 5.25r + 125$, then the value 5.25 best represents

- (1) the start-up cost
- (2) the profit earned from the sale of one radio
- (3) the amount spent to manufacture each radio
- (4) the average number of radios manufactured

- 5 A cell phone company charges \$60.00 a month for up to 1 gigabyte of data. The cost of additional data is \$0.05 per megabyte. If d represents the number of additional megabytes used and c represents the total charges at the end of the month, which linear equation can be used to determine a user's monthly bill?

- | | |
|----------------------|----------------------|
| (1) $c = 60 - 0.05d$ | (3) $c = 60d - 0.05$ |
| (2) $c = 60.05d$ | (4) $c = 60 + 0.05d$ |

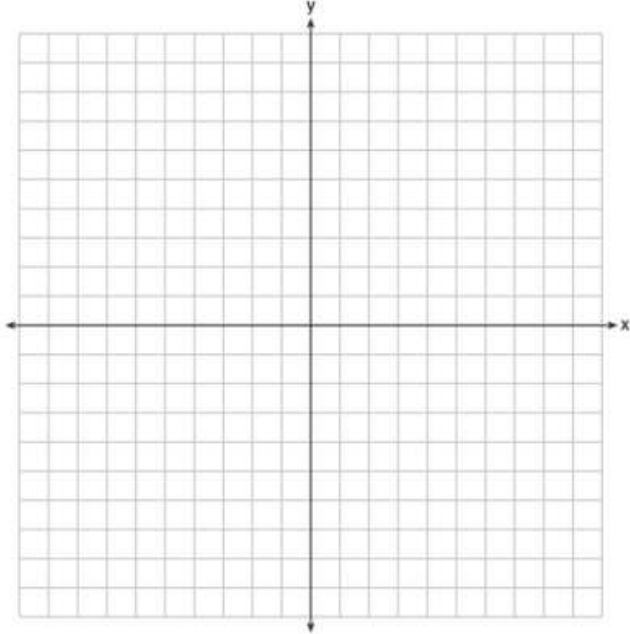
monday

tuesday

Name _____

On the set of axes below, draw the graph of the equation $y = -\frac{3}{4}x + 3$.

6



Is the point (3,2) a solution to the equation?
Explain your answer based on the graph drawn.

wednesday

7

Caitlin has a movie rental card worth \$175. After she rents the first movie, the card's value is \$172.25. After she rents the second movie, its value is \$169.50. After she rents the third movie, the card is worth \$166.75.

Assuming the pattern continues, write an equation to define $A(n)$, the amount of money on the rental card after n rentals.

Caitlin rents a movie every Friday night. How many weeks in a row can she afford to rent a movie, using her rental card only? Explain how you arrived at your answer.

thursday