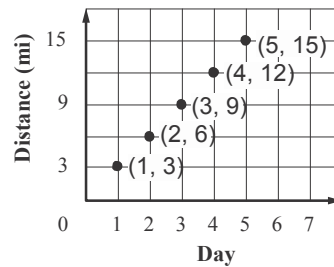


Worksheet 4.R: Functions Review | Chapters 3 & 4

1. Find an ordered pair that satisfies the following equation: $y = -5x + 2$ 1. _____

2. What is $f(-3)$ if $f(x) = -3x - 3$ 2. _____

3. The graph at the right shows Shanequa's total distance in miles for each day she is training for a marathon. What is her distance on day 10?



3. _____

4. Which table represents a linear function?

A.

x	5	2	-1	-4
y	6	7	10	12

C.

x	4	6	9	15
y	3	4	5	6

B.

x	-2	0	2	4
y	0	1	2	3

D.

x	7	4	1	-2
y	-1	-3	-6	-10

4. _____

5. Stephen Rogers' monthly cost of sending text messages can be represented by the function $y = 0.10x$, where y represents the total cost and x represents the number of text messages. The table shows Stephen's monthly cost of sending text messages.

Messages	Cost (\$)
30	18
40	19
50	20
60	21

How much does Stephen pay per 100 text messages?

5. _____

6. Which of the following represents a nonlinear function? 6. _____

A. $y = 8x + 10$

B. $y = x$

C. $y = -9x$

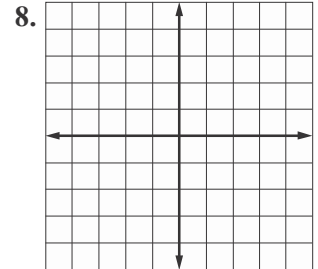
D. $y = 4x^2$

Worksheet 4.R: Functions Review | Chapters 3 & 4

7. King Arthur has a certain number of songs on his MP3 player. Each week, he plans to add 4 more songs. After 5 weeks, he had 40 songs on his MP3 player. How many songs did he start with?

7. _____

8. Sketch a graph with the following ordered pairs.
 $\{(4, -1), (3, 2), (0, -3), (1, 4)\}$



9. Complete the function table for $f(x) = 3x + 2$.

9.

x	$f(x)$
-2	
-1	
0	
1	

For Exercises 10 and 11, consider the following situation.

The store, “All I Eat is Bacon” sells bacon for \$5.30 per pound.

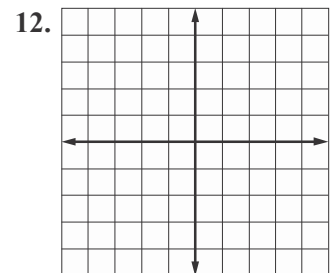
10. Write a function to represent the situation.

10. _____

11. Is the function continuous or discrete? Explain.

11. _____

12. Graph the $y = -2x + 4$.



13. The value of a Pokémon card has increased steadily over time.
 Sketch a graph of the situation.

