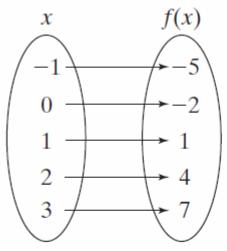
Algebra Quick Quiz 10292019

Question 1.

One way to represent a function f(x) is to use a mapping diagram like the one below.



Which of the following is NOT another correct way to represent f(x)?

- A *x* is every integer between -1 and 3 and f(x) = 3x - 2.
- **B**  $f(x) = \{(-1, -5), (0, -2), (1, 1), (2, 4), (3, 7)\}$
- **C** f(x) = 3x + 2 and the domain is  $\{-1, 0, 1, 2, 3\}.$
- **D** The range is  $\{-5, -2, 1, 4, 7\}$  and f(x) = 3x 2.

#### Question 2

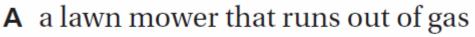
Find the range for the function rule y = 3x + 4 for the domain  $\{-3, -2, -1, 2\}$ . **A**  $\{-3, -2, 4, 6\}$  **B**  $\{5, 10, 12, 16\}$  **C**  $\{-5, 10, 2, 1\}$ **D**  $\{-5, -2, 1, 10\}$ 

Question 3.

Find $f(-2)$ given $f(x) = x^2 - 3x + 4$ .							
Α	4	<b>C</b> 14					
В	6	<b>D</b> 16					

Question 4.

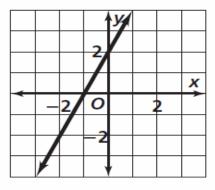
Which of the following is most likely represented by this graph?

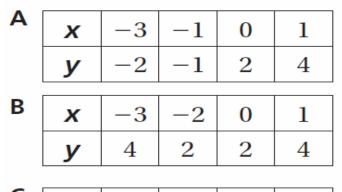


- **B** the outdoor temperature on a hot day as it approaches noon
- **c** your speed as you jog and then go up a steep hill
- **D** the weight of a turtle

Question 5.

### Which table of values was used to make the following graph?





C	X	-3	-1	0	1
	У	-4	0	2	4
D	x	-3	-2	0	1
	У	-3	-2	2	4

#### Question 6.

### Which situation could the equation y = 20x + 80 represent?

- A You bought a CD player for \$80 and then bought \$20 worth of CDs.
- **B** You have paid \$20 toward a new television and plan to pay \$80 more each month.
- **C** You received 2 gift certificates for \$20 for your birthday and already had saved \$80 worth of gift certificates.
- **D** You have saved \$80 and add \$20 to your savings each month.

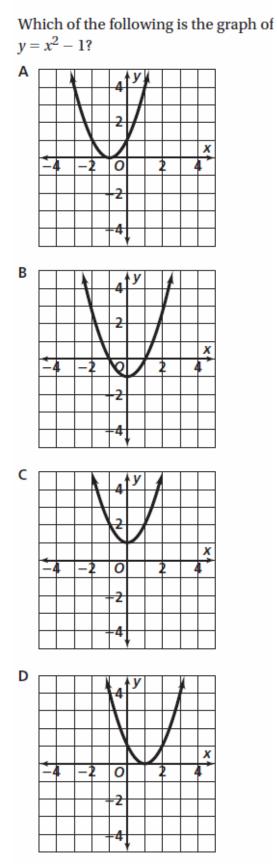
#### Question 7.

## Which of the following tables can be generated by $y = x^2 + 2$ ?

X	У	C	X	у	
-1	1		2	4	
0	2		0	2	
1	3		-1	2	
2	4		-2	8	
X	У	D	X	у	
-2	0		-1	3	
-1	1		0	2	
0	2		1	3	
1	3		2	6	
	-1 0 1 2 <b>x</b> -2 -1 0	$ \begin{array}{c cccc} -1 & 1 \\ 0 & 2 \\ 1 & 3 \\ 2 & 4 \\ \hline                                  $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	x       y       x $-1$ 1       2         0       2       0         1       3       -1         2       4       -2         x       y       -2         -2       0       -1         -1       1       0         0       2       1	

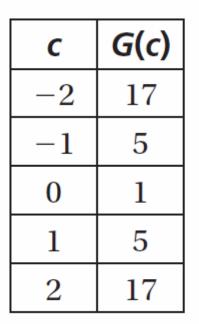
#### Question 8.

Try to reason this out without the use of graphing software. I trust you to be honest.



Question 9.

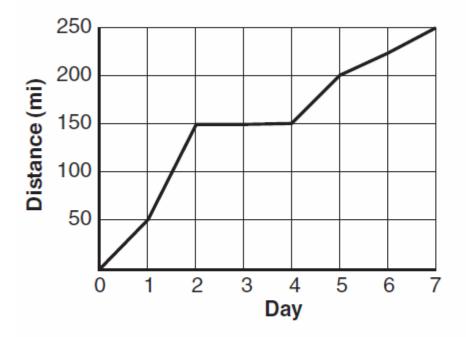
# Which of the following is the function rule for the table shown below?



**A** 
$$G(c) = c + 19$$
  
**B**  $G(c) = c^2 + 13$   
**C**  $G(c) = c^4 + 1$   
**D**  $G(c) = 4c^2 + 1$ 

Question 10.

The graph shows the cumulative distance Yolanda traveled on her week-long bicycle trip.



Which best describes what happened during Days 2-4?

- A Yolanda rode downhill.
- B Yolanda rode on a flat place.
- C Yolanda took a break from riding.
- **D** Yolanda rode 150 miles each of those days.

**Bonus** Question

Question 11 I just want to know how many of you already know this.

If f(x) = |x + 2|, what is the range for the domain  $\{-3, -2, 1\}$ ? **A**  $\{0, 1, 3\}$ **B**  $\{1, 3\}$ **C**  $\{1, 3, 4\}$ **D**  $\{-1, 0, 3\}$