Quiz 2.4: Linear Functions

Multiple Choice: Choose the letter that corresponds to the correct answer. Write the answer in your notebook.

- 1. A line that the graph of a function approaches but never intersects is called:
 - A. Asymptote
- B. Vertical line test
- C. x-axis
- D. y-axis

- 2. A function whose graph is a slant line is called:
- A. Linear Function B. Linear Equation
- C. Linear Inequality D. Linear Inequation
- 3. The set of all permissible values of x that give real values for y is called:
 - A. Domain
- B. Function
- C. Range
- D. Relation
- 4. The set of permissible values for y or f(x) that give the values of x real numbers is called:
 - A. Domain
- B. Function
- C. Range
- D. Relation

5. Which of the following is a NOT linear function?

Λ	X	-3	-1	1	3	5
л.	y	-16	-6	4	14	24

В	X	-5	-4	-3	-2	-1
ь.	y	15	11	7	3	-1

- 6. Which of the following functions has a degree of 0?
 - A. f(x) = -2x 1
- B. f(x) = 2(x+3)
- **C.** f(x) = 0
- D. f(x) = -4

- 7. Which of the following is NOT a linear function?
- B. f(x) = 2(x-3)
- C. $f(x) = -4x^2$
- D. f(x) = -4
- 8. Which of the following functions has an undefined degree?
 - A. f(x) = -2x 1
- B. f(x) = 2(x+3)
- C. f(x) = 0
- D. f(x) = -4

9. If f(x) = 4x - 1, find f(-1).

A. f(x) = -6x - 7

- A. f(-1) = -4 B. f(-1) = -5 C. f(-1) = 4 D. f(-1) = 5

- 10. What is the domain of the function $q(x) = \sqrt{x+1}$?
 - A. $D = \{x | x \ge -1\}$ B. $D = \{x | x \ge 0\}$ C. $D = \{x | x \ge 1\}$
- D. $D = \{x | x \ge 2\}$
- 11. What are the domain and the range of the funtion shown in following graph?



- **A.** $D = \{x | x > 3\}, R = \{y | y \in \mathbb{R}\}$
- C. $D = \{x | x < 3\}, R = \{y | y \in \mathbb{R}\}$
- B. $D = \{x | x \ge 3\}, R = \{y | y \in \mathbb{R}\}$
- D. $D = \{x | x \le 3\}, R = \{y | y \in \mathbb{R}\}$

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5. Which of the following is a NOT linear function?

A.	X	-3	-1	1	3	5
	y	-16	-6	4	14	24

C	X	-2	-1	0	1	2
C.	y	-1	2	5	8	11

B.	X	-5	-4	-3	-2	-1
	y	15	11	7	3	-1

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C.
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$$f(-1) = -4$$
 B. $f(-1) = -5$ C. $f(-1) = 4$

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$$f(-1) = -$$

C.
$$f(-1) =$$

D.
$$f(-1) = 5$$

10. What is the domain of the function $q(x) = \sqrt{x+1}$?

A.
$$D = \{x | x \ge -1\}$$
 B. $D = \{x | x \ge 0\}$ **C.** $D = \{x | x \ge 1\}$

B.
$$D = \{x | x \ge 1\}$$

C.
$$D = \{x | x \}$$

D.
$$D = \{x | x \ge 2\}$$

11. What are the domain and the range of the funtion shown in following graph?



A.
$$D = \{x | x > 3\}, R = \{y | y \in \mathbb{R}\}$$

C.
$$D = \{x | x < 3\}, R = \{y | y \in \mathbb{R}\}$$

B.
$$D = \{x | x \ge 3\}, R = \{y | y \in \mathbb{R}\}$$

D.
$$D = \{x | x \le 3\}, R = \{y | y \in \mathbb{R}\}$$