

LINEAR VS NON-LINEAR

MATH 8

Name: _____ Date: _____

1.

x	y
1	3
2	6
3	9
4	12
5	15

Above, the table reflects what type of function?

- A. linear and nonlinear
- B. linear
- C. neither linear nor nonlinear
- D. nonlinear

2.

x	y
0	-11
1	-10
2	-3
3	16

Above, the table reflects what type of function?

- A. nonlinear
- B. linear
- C. neither linear nor nonlinear
- D. linear and nonlinear

3. Which of the following expresses the equation below?

$$y = 6x - 12$$

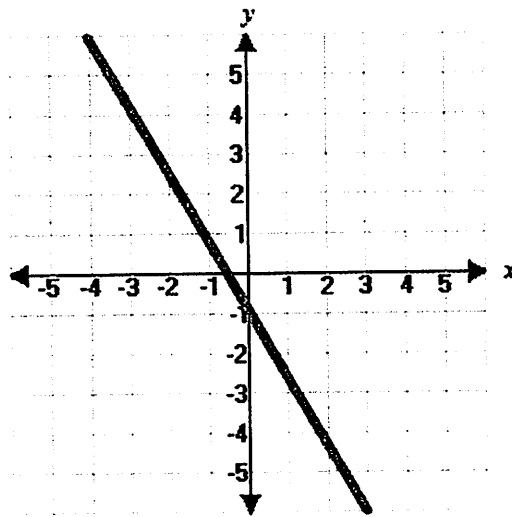
- A. neither linear nor nonlinear
- B. both linear and nonlinear
- C. nonlinear
- D. linear

4. Which of the following expresses the equation below?

$$y = -\frac{1}{5}x - 15$$

- A. nonlinear
- B. neither linear nor nonlinear
- C. linear
- D. both linear and nonlinear

5.



Above, the graph reflects what type of function?

- A. both linear and nonlinear
- B. neither linear nor nonlinear
- C. linear
- D. nonlinear

6. The population of a species of deer declines each year by one-fourth. So, after each year, only three-fourths of the deer that exist at the beginning of the year remain. Which of the following describes the rate of decline in the population of the deer?

- A. both linear and nonlinear
- B. linear
- C. nonlinear
- D. neither linear nor nonlinear

7. Which best describes the equation below?

- A. neither linear nor nonlinear
 - B. nonlinear
 - C. both linear and nonlinear
 - D. linear
- $$y = 4x + 14$$

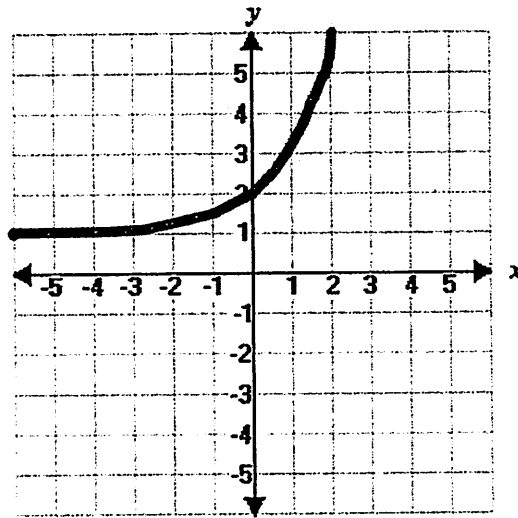
8. Which best describes the equation below?

- A. nonlinear
 - B. both linear and nonlinear
 - C. linear
 - D. neither linear nor nonlinear
- $$y = 4x + 5$$

9. Which best describes the equation below?

- A. nonlinear
 - B. both linear and nonlinear
 - C. neither linear nor nonlinear
 - D. linear
- $$y = 7x^3 + 4$$

10.



The graph above represents what type of function?

- A. both linear and nonlinear
- B. neither linear nor nonlinear
- C. linear
- D. nonlinear