

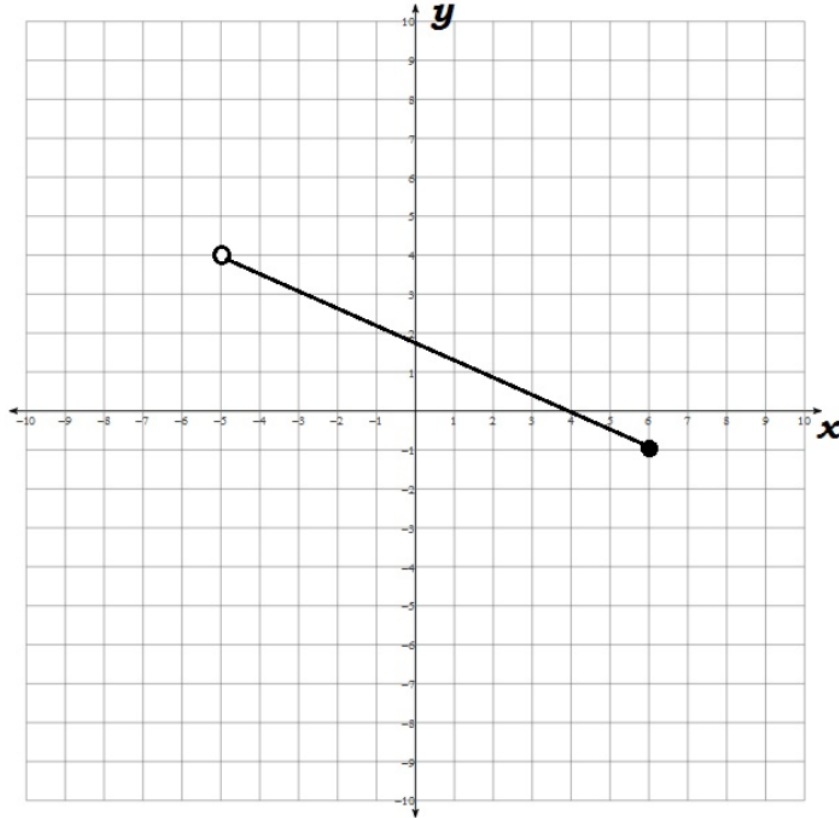
## Domain and Range Test

Name: \_\_\_\_\_ Pd: \_\_\_\_\_

Date: \_\_\_\_\_

### Question 1

The graph of part of linear function  $f$  is shown on the grid.



Which inequality best represents the domain of the part shown?

**A.**  $-1 < f(x) \leq 4$

**C.**  $-1 \leq f(x) < 4$

**B.**  $-5 \leq x < 6$

**D.**  $-5 < x \leq 6$

### Question 2

A car rental company charges a \$20 as a rental fee and charges \$40 a day. The total cost of the rental can be represented by the equation  $c = 20 + 40x$ , where  $x$  is the number of days the car is rented. Juan is planning to rent a car for no more than 7 days. What is the maximum value of the range of the function of this situation?

Answer : \_\_\_\_\_.

# Domain and Range Test

Name: \_\_\_\_\_ Pd: \_\_\_\_\_

Date: \_\_\_\_\_

## Question 3

What is the domain of  $g(x) = 4 - x^2$  ?

**A.**  $g(x) \geq 4$

**C.** *All Real Numbers*

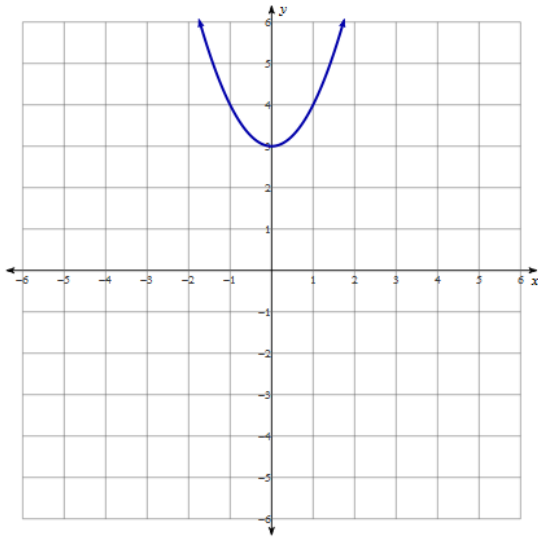
**B.**  $-2 \leq x < 2$

**D.**  $x \leq 4$

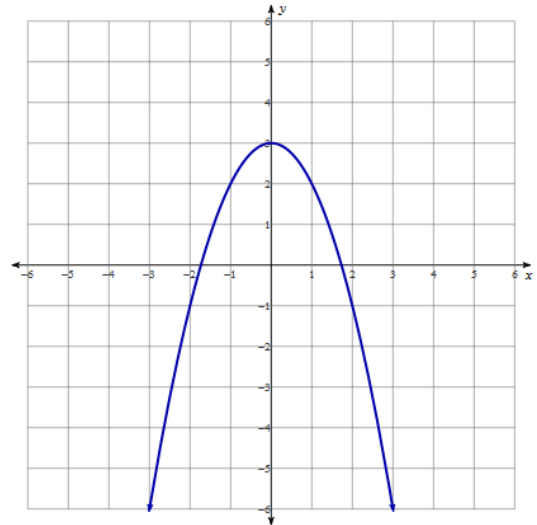
## Question 4

Which graph best represents a function with a range of all real numbers less than or equal to 3?

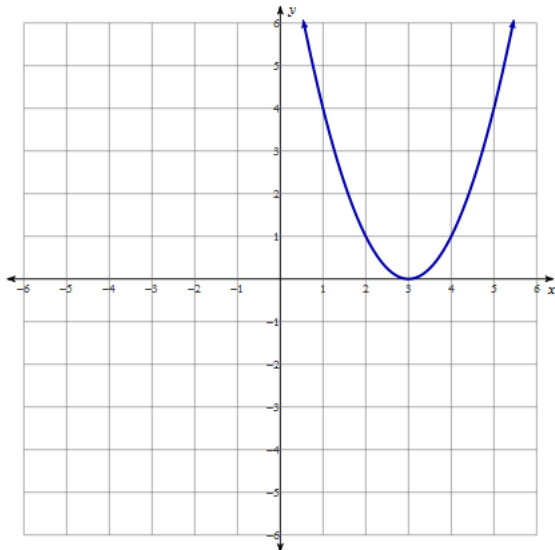
**A.**



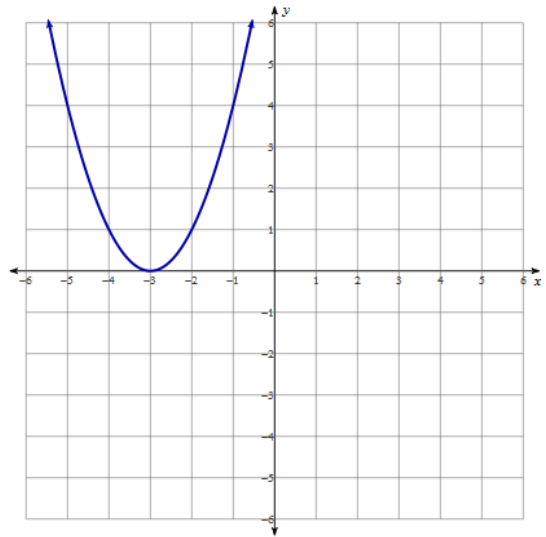
**C.**



**B.**

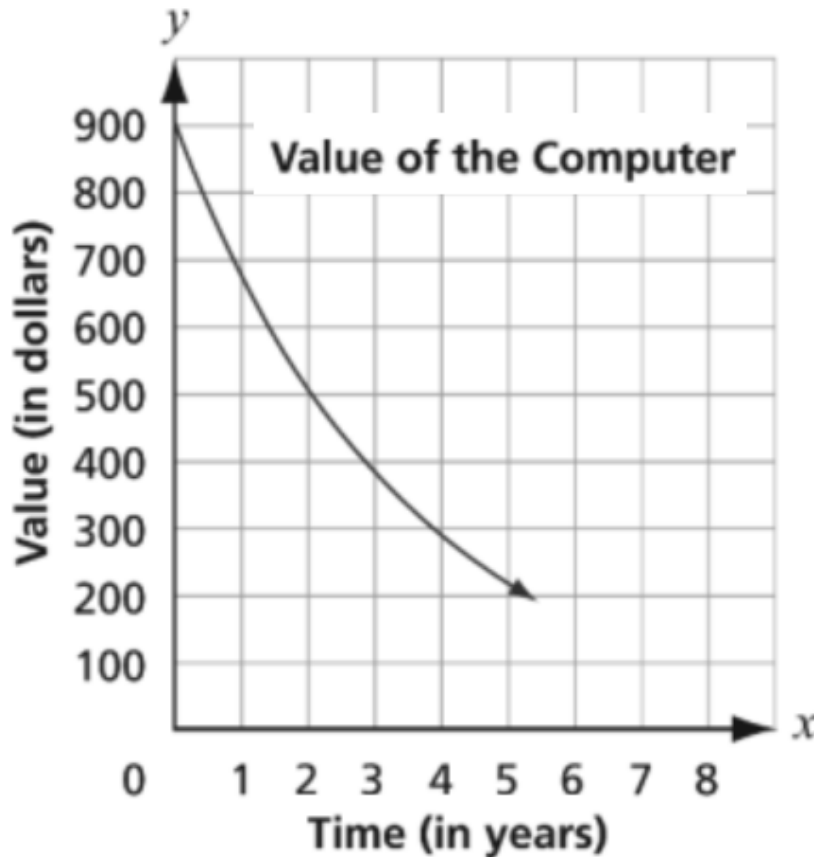


**D.**



**Question 5**

The price of a computer over time is modeled by the exponential function  $f$  shown below, where  $x$  is the number of years after the computer was purchased.



Which inequality best represents the range of  $f$  in this situation?

- A.  $x \geq 0$
- B.  $y \leq 900$
- C.  $0 \leq x \leq 8$
- D.  $y \geq 900$

**Question 6**

What is the range of  $f(x) = 16 - x^2$  ?

- A.  $f(x) \leq 16$
- B.  $-4 \leq x < 4$
- C. *All Real Numbers*
- D.  $x \leq 16$

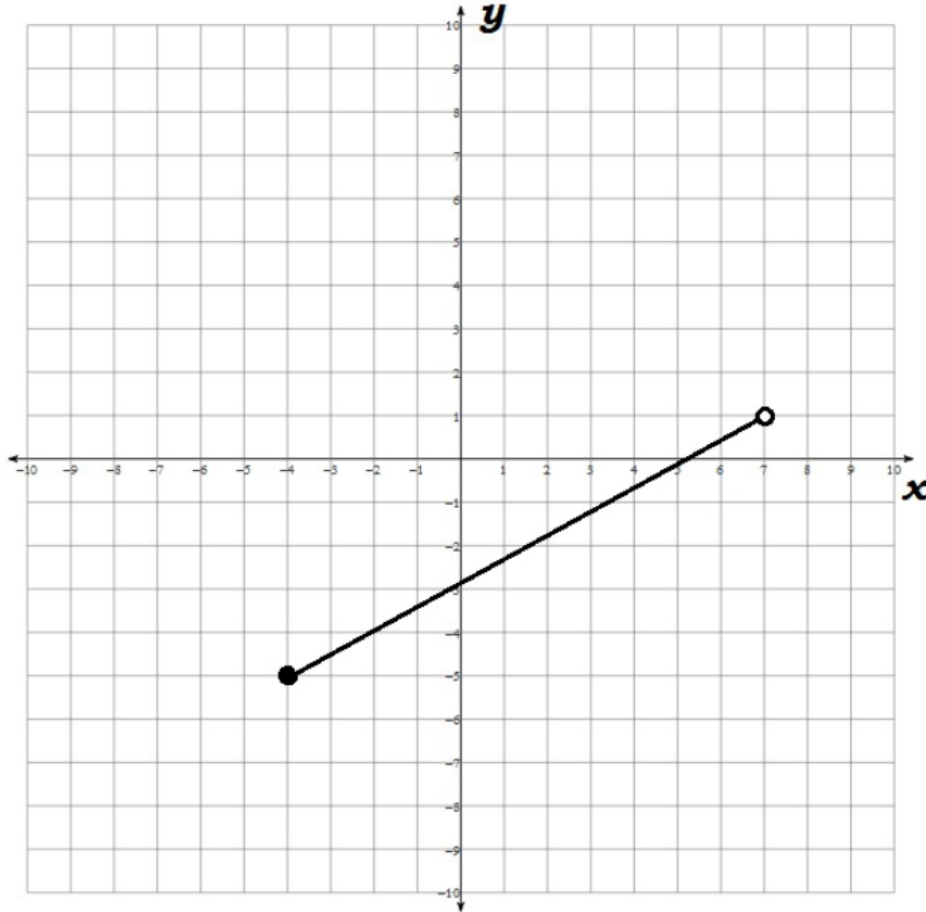
Domain and Range Test

Name: \_\_\_\_\_ Pd: \_\_\_\_\_

Date: \_\_\_\_\_

**Question 7**

The graph of part of linear function  $f$  is shown on the grid.



Which inequality best represents the range of the part shown?

- A.  $-4 \leq f(x) < 7$
- B.  $-5 \leq x < 1$
- C.  $-5 \leq f(x) < 1$
- D.  $-4 \leq x < 7$

**Question 8**

A certain function is represented by  $g(x) = 4 - 3x$ , if the domain of the function is  $\{3, 0, -1\}$ , What is the range of the function?

- C.  $\{-5, 4, 7\}$
- D.  $\{13, 1, 7\}$
- C.  $\{-11, -8, -17\}$
- D.  $\{5, -4, -7\}$

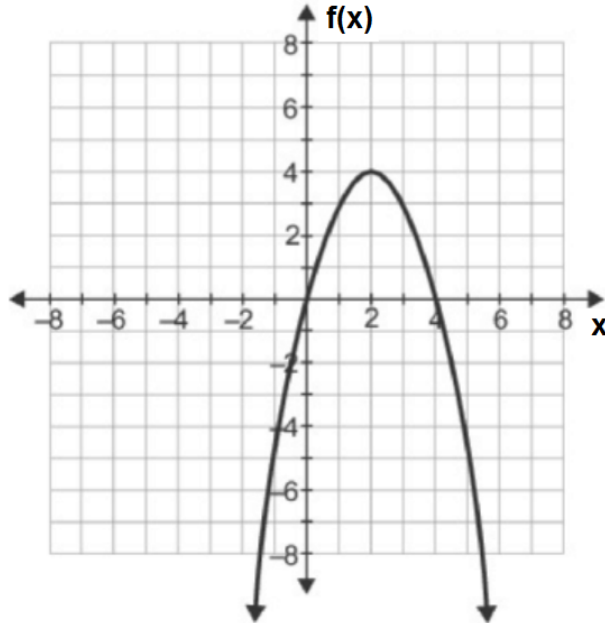
# Domain and Range Test

Name: \_\_\_\_\_ Pd: \_\_\_\_\_

Date: \_\_\_\_\_

## Question 9

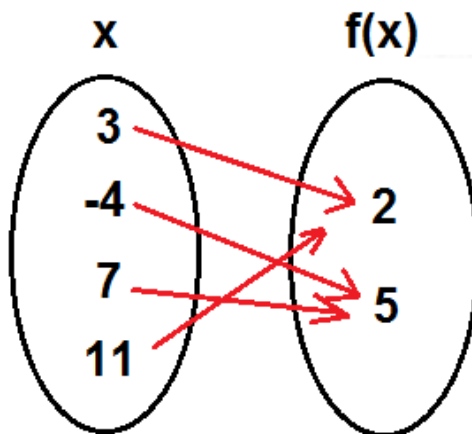
What is the domain of the quadratic function shown below:



- A.  $f(x) \leq 4$
- C.  $x \geq 4$
- B.  $0 \leq x < 4$
- D. *All Real Numbers*

## Question 10

What is the domain of the function shown in the mapping below:



- A.  $\{-4, 2, 3, 5, 7, 11\}$
- C.  $\{5\}$
- B.  $\{2, 5\}$
- D.  $\{-4, 3, 7, 11\}$