

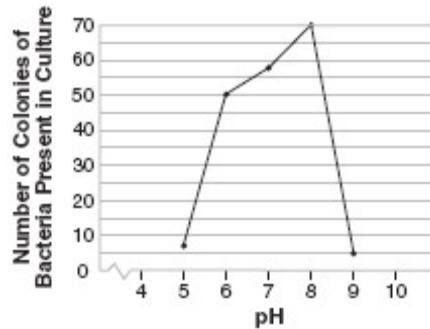
Name \_\_\_\_\_  
Mr. Schlansky

Date \_\_\_\_\_  
Algebra II/Trigonometry

## Domain and Range Graphically

1. The graph below shows the function  $f(x)$ .

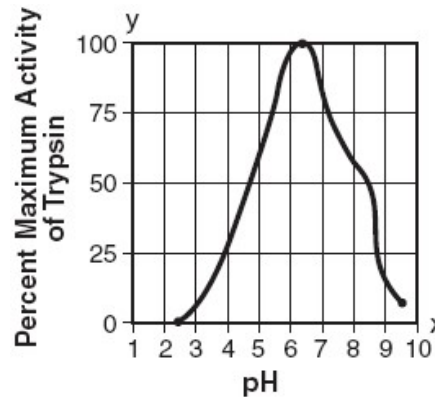
The accompanying graph illustrates the presence of a certain strain of bacteria at various pH levels.



What is the range of this set of data?

- (1)  $5 \leq x \leq 9$                       (3)  $0 \leq y \leq 70$   
(2)  $5 \leq x \leq 70$                       (4)  $5 \leq y \leq 70$

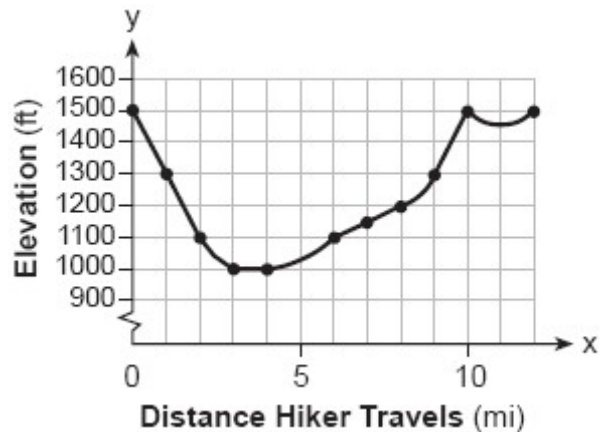
2. Data collected during an experiment are shown in the accompanying graph.



What is the range of this set of data?

- (1)  $2.5 \leq y \leq 9.5$                       (3)  $0 \leq y \leq 100$   
(2)  $2.5 \leq x \leq 9.5$                       (4)  $1 \leq x \leq 10$

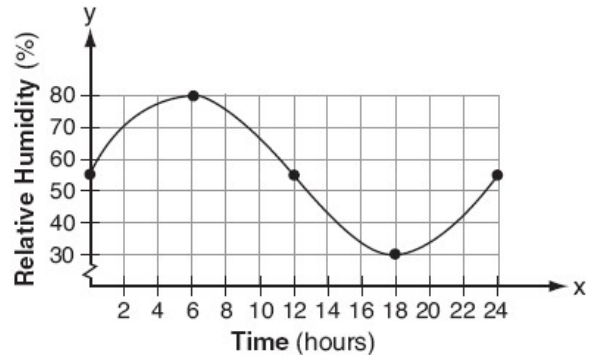
3. The accompanying graph shows the elevation of a certain region in New York State as a hiker travels along a trail.



What is the domain of this function?

- (1)  $1,000 \leq x \leq 1,500$                       (3)  $0 \leq x \leq 12$   
(2)  $1,000 \leq y \leq 1,500$                       (4)  $0 \leq y \leq 12$

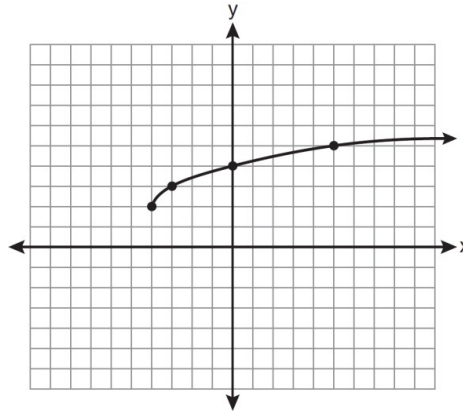
4. A meteorologist drew the accompanying graph to show the changes in relative humidity during a 24-hour period in New York City.



What is the range of this set of data?

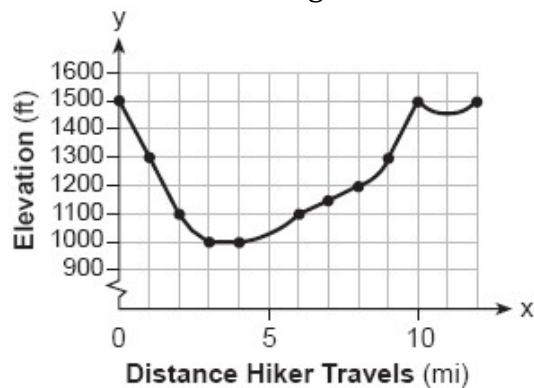
- (1)  $0 \leq y \leq 24$       (3)  $30 \leq y \leq 80$   
 (2)  $0 \leq x \leq 24$       (4)  $30 \leq x \leq 80$

5. What are the domain and the range of the function shown in the graph below?



- 1)  $\{x|x > -4\}; \{y|y > 2\}$   
 2)  $\{x|x \geq -4\}; \{y|y \geq 2\}$   
 3)  $\{x|x > 2\}; \{y|y > -4\}$   
 4)  $\{x|x \geq 2\}; \{y|y \geq -4\}$

6. The accompanying graph shows the elevation of a certain region in New York State as a hiker travels along a trail.

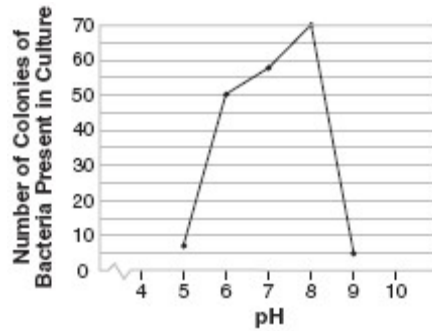


What is the range of this function?

- (1)  $1,000 \leq x \leq 1,500$       (3)  $0 \leq x \leq 12$   
 (2)  $1,000 \leq y \leq 1,500$       (4)  $0 \leq y \leq 12$

7. The graph below shows the function  $f(x)$ .

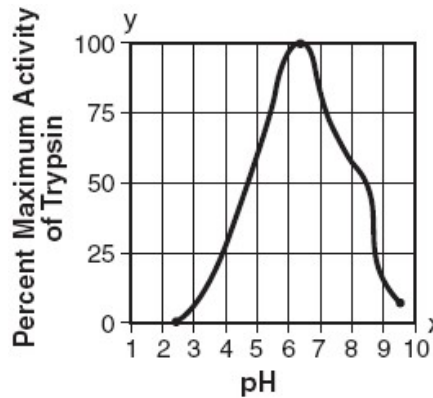
The accompanying graph illustrates the presence of a certain strain of bacteria at various pH levels.



What is the domain of this set of data?

- (1)  $5 \leq x \leq 9$                       (3)  $0 \leq y \leq 70$   
 (2)  $5 \leq x \leq 70$                       (4)  $5 \leq y \leq 70$

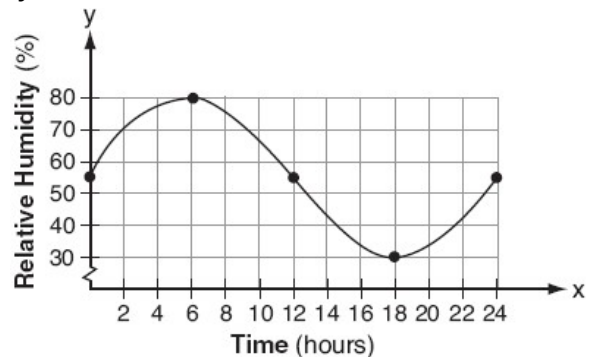
8. Data collected during an experiment are shown in the accompanying graph.



What is the domain of this set of data?

- (1)  $2.5 \leq y \leq 9.5$                       (3)  $0 \leq y \leq 100$   
 (2)  $2.5 \leq x \leq 9.5$                       (4)  $1 \leq x \leq 10$

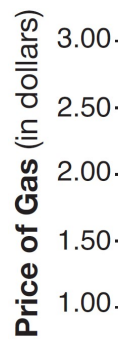
9. A meteorologist drew the accompanying graph to show the changes in relative humidity during a 24-hour period in New York City.



What is the domain of this set of data?

- (1)  $0 \leq y \leq 24$                       (3)  $30 \leq y \leq 80$   
 (2)  $0 \leq x \leq 24$                       (4)  $30 \leq x \leq 80$

10. The graph below shows the average price of gasoline, in dollars, for the years 1997 to 2007.

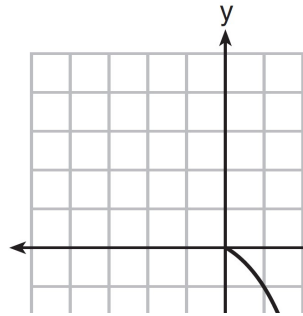


What is the approximate domain of this graph?

- 1)  $1997 \leq x \leq 2007$   
 2)  $1999 \leq x \leq 2007$   
 3)  $0.97 \leq y \leq 2.38$   
 4)  $1.27 \leq y \leq 2.38$

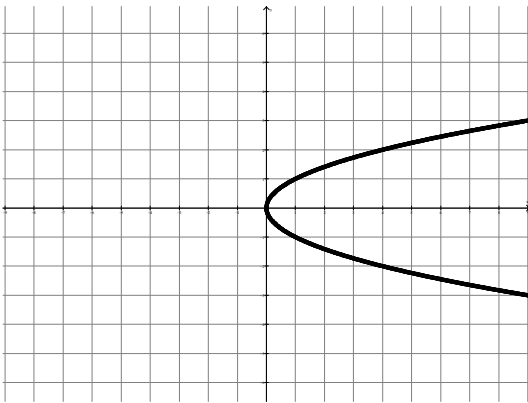
11. What is the domain of the function shown below?

- 1)  $x \leq 0$
- 2)  $x \geq 0$
- 3)  $y \leq 0$
- 4)  $y \geq 0$

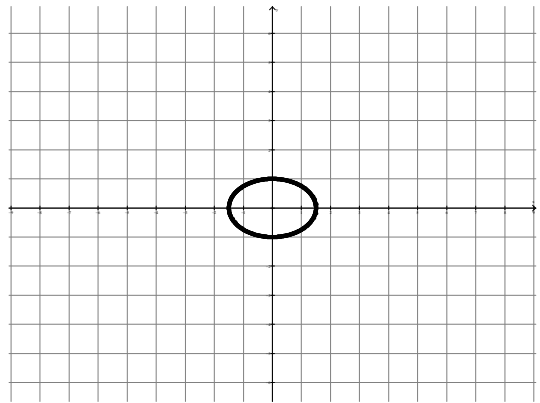


For 12-15, state the domain and range of each function

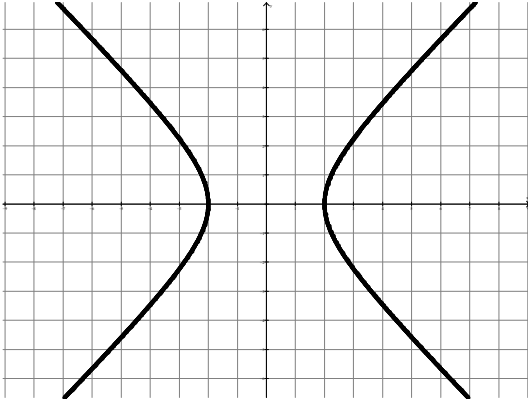
12.



13.



14.



15.

