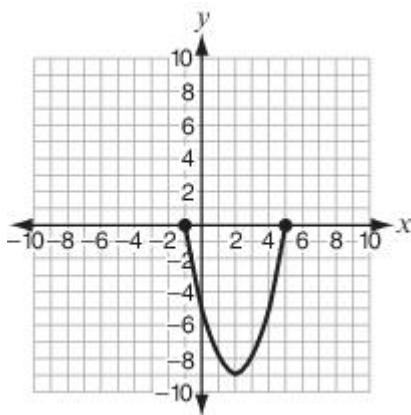


Directions: Please choose the best answer choice for each of the following questions.

1. What is the domain of the relation given in the table below?

x	3	5	6	7
y	4	7	10	13

- A. all real numbers
 B. $\{3, 5, 6, 7\}$
 C. $x \geq 3$
 D. $3 \leq x \leq 7$
2. A section of a parabola is graphed below.



Which inequality describes the domain of this function?

- A. $x \geq -1$
 B. $x \geq -9$
 C. $-1 \leq x \leq 5$
 D. $-9 \leq x \leq 0$

3. For a special event at the Center City Arena, up to 5 tickets can be purchased. This table shows the total cost, $f(x)$, to buy x tickets for the event.

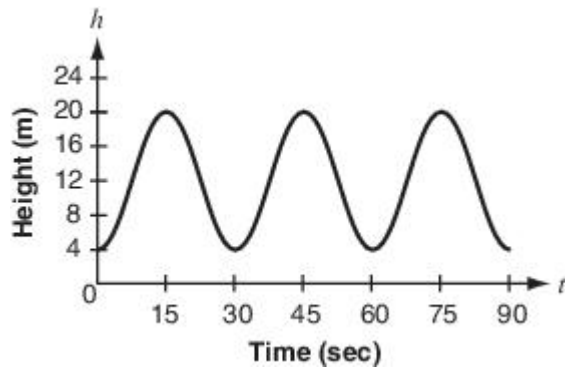
x	$f(x)$
1	\$8.00
2	\$16.00
3	\$24.00
4	\$32.00
5	\$40.00

What is the range of this function?

- A. $\{1, 2, 3, 4, 5\}$
 B. $\{\$8.00 \text{ per ticket}\}$
 C. $\{(1, 8), (2, 16), (3, 24), (4, 32), (5, 40)\}$
 D. $\{\$8.00, \$16.00, \$24.00, \$32.00, \$40.00\}$
4. What is the domain, D , and the range, R , of the relation defined by $\{(3, 7), (3, 5), (3, 6), (3, 2)\}$?
- A. $D = \{2, 3, 5, 6, 7\}$ $R = \{2, 3, 5, 6, 7\}$
 B. $D = \{2, 5, 6, 7\}$ $R = \{3\}$
 C. $D = \{3\}$ $R = \{2, 5, 6, 7\}$
 D. $D = \{3\}$ $R = \{2, 7\}$

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5. Dominic loves to ride the Ferris wheel at the amusement park. His height, h , on the rotating Ferris wheel over time, t , is shown in the graph below.



Which BEST describes the range of the function graphed?

- A. $4 \leq h \leq 20$
- B. $4 \leq h \leq 24$
- C. $0 \leq t \leq 30$
- D. $0 \leq t \leq 90$

Stop! You have finished this exam.