

Name: _____

Date: _____

1. In which function is the range equal to the domain?

- A. $y = 2^x$ B. $y = x^2$
 C. $y = \log x$ D. $y = x$

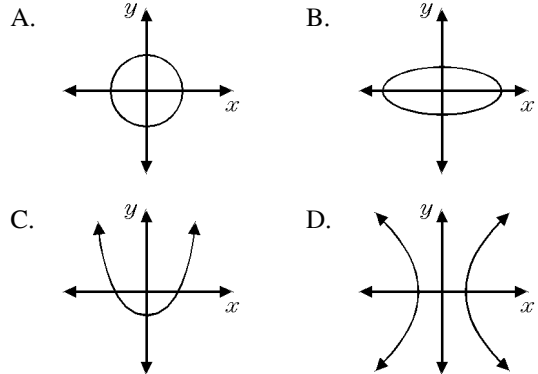
2. The domain of the function $f(x) = \frac{3}{\sqrt{x-1}}$ is

- A. $\{x \mid x \neq 1\}$ B. $\{x \mid x \geq 1\}$
 C. $\{x \mid x < 1\}$ D. $\{x \mid x > 1\}$

3. The domain for $f(x) = x^2 - 3$ is $0 \leq x < 4$. The smallest value in the range of $f(x)$ is

- A. 0 B. 16 C. -3 D. 4

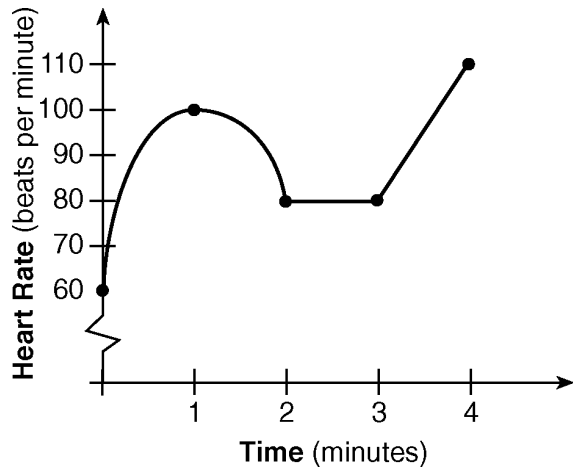
4. Which graph illustrates a quadratic relation whose domain is all real numbers?



5. If the domain of $f(x) = 2x + 1$ is $\{-2 \leq x \leq 3\}$, which integer is *not* in the range?

- A. -4 B. -2 C. 0 D. 7

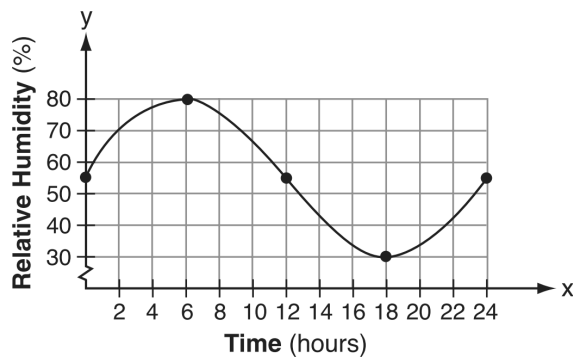
6. The accompanying graph shows the heart rate, in beats per minute, of a jogger during a 4-minute interval.



What is the range of the jogger's heart rate during this interval?

- A. 0–4 B. 1–4
C. 0–110 D. 60–110

7. 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?

- A. $0 \leq y \leq 24$ B. $0 \leq x \leq 24$
C. $30 \leq y \leq 80$ D. $30 \leq x \leq 80$

8. What is the *domain* of the function

$$f(x) = 2x - 3$$

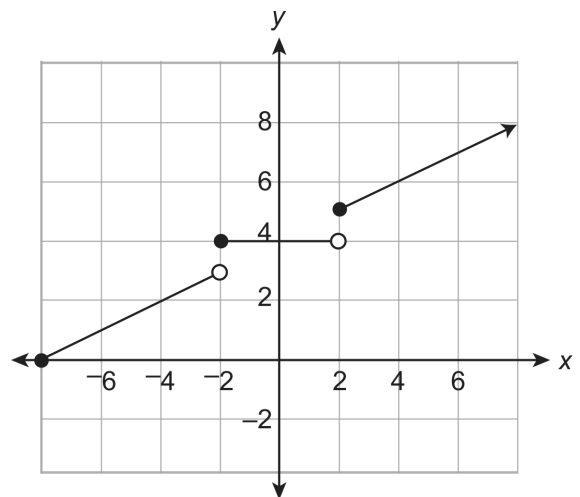
when the range is $\{-9, -3, 1\}$?

- A. $\{-21, -9, -1\}$ B. $\{-2, 0, 6\}$
C. $\{-8, -2, 2\}$ D. $\{-3, 0, 2\}$

9. What is the range of the function $f(x) = x^2 - 6$ when the domain is $\{3, 4, 5\}$?

- A. $\{3, 4, 5\}$ B. $\{-3, -2, -1\}$
C. $\{3, 10, 19\}$ D. $\{0, 2, 4\}$

10. The graph of a function is shown below.



Which value is *not* in the range of the function?

- A. 0 B. 3 C. 4 D. 5

11. For what value of x will $3x + 4 = x - 6$ be a true statement?

A. $x = -5$

B. $x = -\frac{5}{2}$

C. $x = -1$

D. $x = -\frac{1}{2}$

2A-day 1 08/10/2016

1.
Answer: D
2.
Answer: D
3.
Answer: C
4.
Answer: C
5.
Answer: A
6.
Answer: D
7.
Answer: C
8.
Answer: D
9.
Answer: C
10.
Answer: B
11.
Answer: A