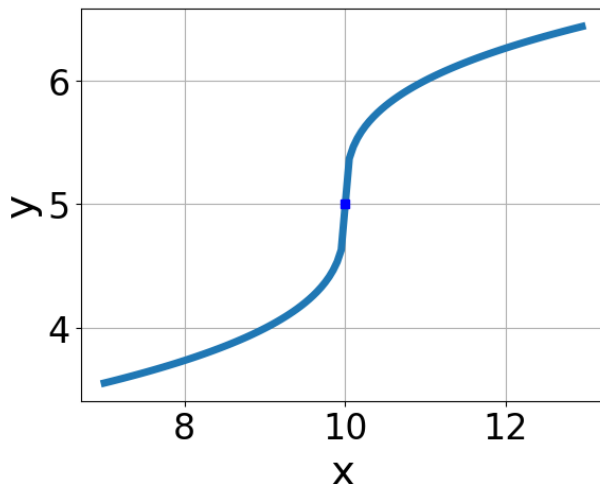


1. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{25x^2 - 64} - \sqrt{0x} = 0$$

- A. $x \in [-5.6, -0.6]$
 - B. All solutions lead to invalid or complex values in the equation.
 - C. $x_1 \in [-0.4, 4.6]$ and $x_2 \in [-0.4, 4.6]$
 - D. $x \in [-0.4, 4.6]$
 - E. $x_1 \in [-5.6, -0.6]$ and $x_2 \in [-0.4, 4.6]$
-

2. Choose the equation of the function graphed below.



- A. $f(x) = -\sqrt[3]{x+10} + 5$
 - B. $f(x) = -\sqrt[3]{x-10} + 5$
 - C. $f(x) = \sqrt[3]{x+10} + 5$
 - D. $f(x) = \sqrt[3]{x-10} + 5$
 - E. None of the above
-

3. Solve the radical equation below. Then, choose the interval(s) that the

solution(s) belongs to.

$$\sqrt{-25x^2 + 24} - \sqrt{25x} = 0$$

- A. $x \in [0.6, 3.6]$
 - B. All solutions lead to invalid or complex values in the equation.
 - C. $x_1 \in [0.6, 3.6]$ and $x_2 \in [1.46, 3]$
 - D. $x \in [-2.6, 0.4]$
 - E. $x_1 \in [-2.6, 0.4]$ and $x_2 \in [0.52, 0.88]$
-

4. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{-6x - 2} - \sqrt{4x + 2} = 0$$

- A. $x_1 \in [-0.73, -0.41]$ and $x_2 \in [-4.33, 0.67]$
 - B. All solutions lead to invalid or complex values in the equation.
 - C. $x_1 \in [-0.42, -0.16]$ and $x_2 \in [-4.33, 0.67]$
 - D. $x \in [-0.13, 0.13]$
 - E. $x \in [-0.42, -0.16]$
-

5. What is the domain of the function below?

$$f(x) = \sqrt[3]{-3x + 4}$$

- A. The domain is $[a, \infty)$, where $a \in [0.78, 1.72]$
 - B. $(-\infty, \infty)$
 - C. The domain is $(-\infty, a]$, where $a \in [0.4, 1.3]$
 - D. The domain is $(-\infty, a]$, where $a \in [0.9, 2.9]$
 - E. The domain is $[a, \infty)$, where $a \in [0.33, 0.94]$
-

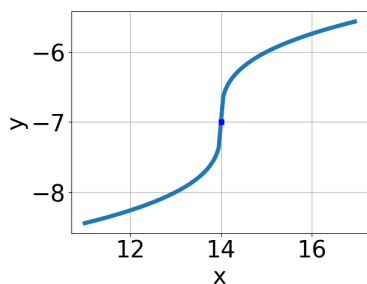
6. What is the domain of the function below?

$$f(x) = \sqrt[8]{7x + 3}$$

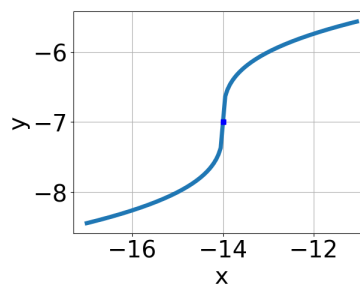
- A. $(-\infty, \infty)$
- B. $(-\infty, a]$, where $a \in [-4.33, -1.33]$
- C. $(-\infty, a]$, where $a \in [-1.43, 6.57]$
- D. $[a, \infty)$, where $a \in [-2.34, -0.43]$
- E. $[a, \infty)$, where $a \in [-0.58, 0.81]$

7. Choose the graph of the equation below.

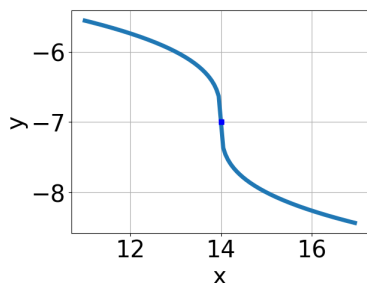
$$f(x) = -\sqrt[3]{x - 14} - 7$$



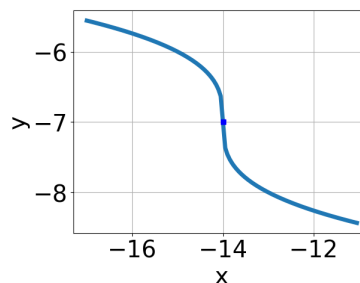
A.



C.



B.



D.

E. None of the above.

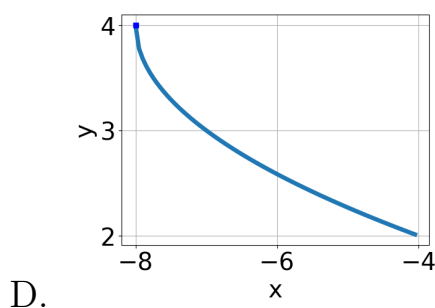
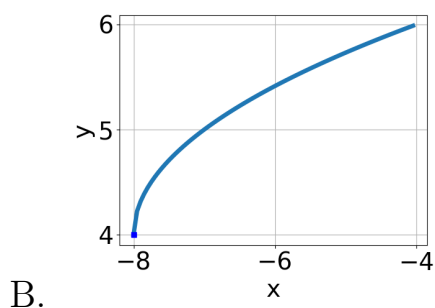
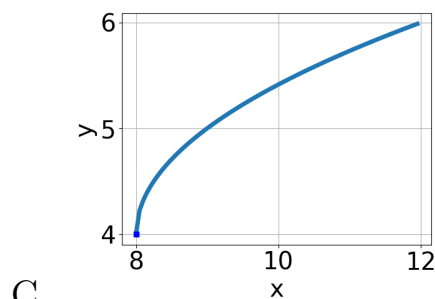
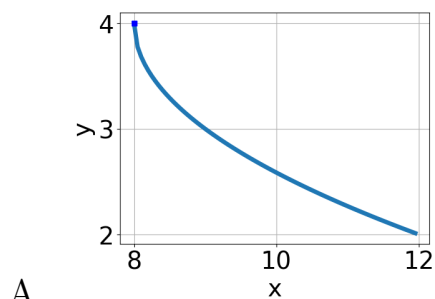
8. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{-2x + 3} - \sqrt{-3x - 3} = 0$$

- A. $x_1 \in [-3.6, -0.3]$ and $x_2 \in [-2.5, 2.5]$
- B. All solutions lead to invalid or complex values in the equation.
- C. $x_1 \in [-6.7, -5.9]$ and $x_2 \in [-2.5, 2.5]$
- D. $x \in [-0.1, 1.5]$
- E. $x \in [-6.7, -5.9]$
-

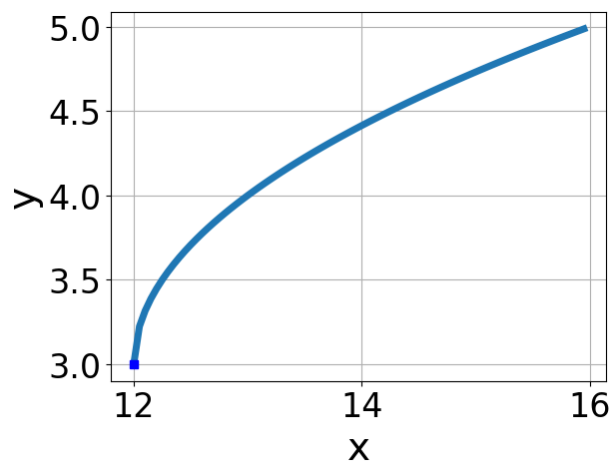
9. Choose the graph of the equation below.

$$f(x) = -\sqrt{x-8} + 4$$



E. None of the above.

10. Choose the equation of the function graphed below.



- A. $f(x) = \sqrt[3]{x+12} + 3$
 - B. $f(x) = \sqrt[3]{x-12} + 3$
 - C. $f(x) = -\sqrt[3]{x+12} + 3$
 - D. $f(x) = -\sqrt[3]{x-12} + 3$
 - E. None of the above
-