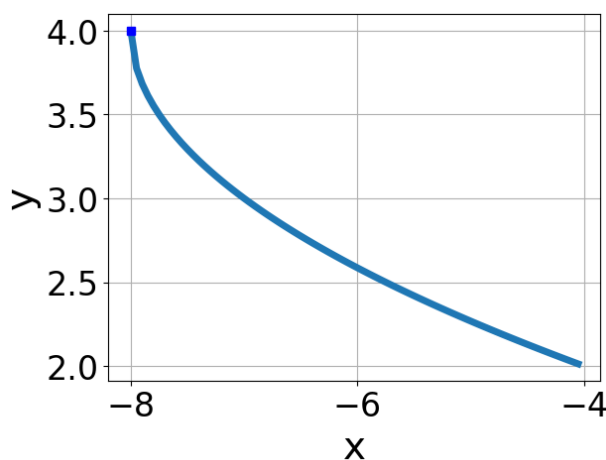


1. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{28x^2 + 14} - \sqrt{-42x} = 0$$

- A. $x \in [-0.55, -0.14]$
 - B. $x \in [-1.08, -0.59]$
 - C. $x_1 \in [-1.08, -0.59]$ and $x_2 \in [-1.8, 0.1]$
 - D. All solutions lead to invalid or complex values in the equation.
 - E. $x_1 \in [0.45, 0.56]$ and $x_2 \in [0, 2.2]$
-

2. Choose the equation of the function graphed below.



- A. $f(x) = \sqrt[3]{x+8} + 4$
 - B. $f(x) = -\sqrt[3]{x-8} + 4$
 - C. $f(x) = -\sqrt[3]{x+8} + 4$
 - D. $f(x) = \sqrt[3]{x-8} + 4$
 - E. None of the above
-

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

$$\sqrt{35x^2 + 21} - \sqrt{64x} = 0$$

- A. $x \in [0.8, 4.1]$
 - B. $x_1 \in [-0.6, 0.9]$ and $x_2 \in [0.4, 4.4]$
 - C. $x_1 \in [-1.5, -0.2]$ and $x_2 \in [-4.43, 0.57]$
 - D. $x \in [-0.6, 0.9]$
 - E. All solutions lead to invalid or complex values in the equation.
-

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

$$\sqrt{9x + 9} - \sqrt{5x - 3} = 0$$

- A. $x \in [-1.6, -1.16]$
 - B. $x_1 \in [-4.22, -2.68]$ and $x_2 \in [-2, 0]$
 - C. $x_1 \in [-1.44, -0.97]$ and $x_2 \in [-0.4, 6.6]$
 - D. All solutions lead to invalid or complex values in the equation.
 - E. $x \in [-4.22, -2.68]$
-

5. What is the domain of the function below?

$$f(x) = \sqrt[3]{-7x - 4}$$

- A. $(-\infty, \infty)$
 - B. The domain is $(-\infty, a]$, where $a \in [-4, -1.4]$
 - C. The domain is $[a, \infty)$, where $a \in [-5, -1.3]$
 - D. The domain is $(-\infty, a]$, where $a \in [-1, 2.8]$
 - E. The domain is $[a, \infty)$, where $a \in [-1.3, 2.1]$
-

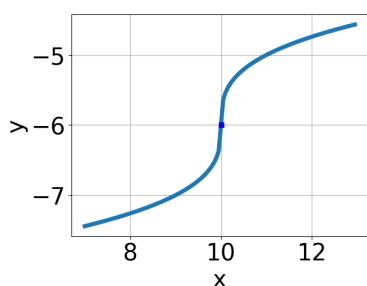
6. What is the domain of the function below?

$$f(x) = \sqrt[3]{5x - 7}$$

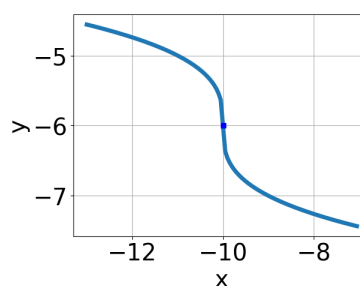
- A. The domain is $(-\infty, a]$, where $a \in [0.6, 1.1]$
- B. $(-\infty, \infty)$
- C. The domain is $(-\infty, a]$, where $a \in [0.9, 3.6]$
- D. The domain is $[a, \infty)$, where $a \in [0.05, 0.91]$
- E. The domain is $[a, \infty)$, where $a \in [1.04, 1.72]$

7. Choose the graph of the equation below.

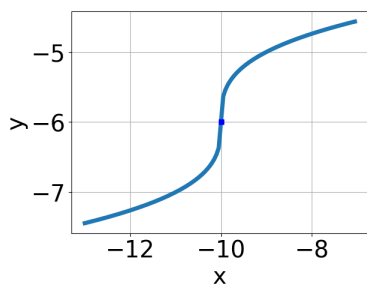
$$f(x) = -\sqrt[3]{x - 10} - 6$$



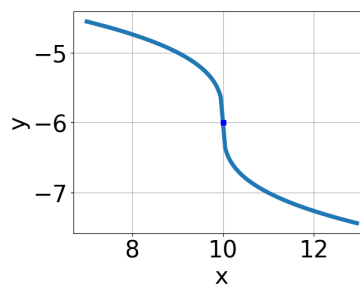
A.



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.

$$\sqrt{-2x - 5} - \sqrt{3x + 6} = 0$$

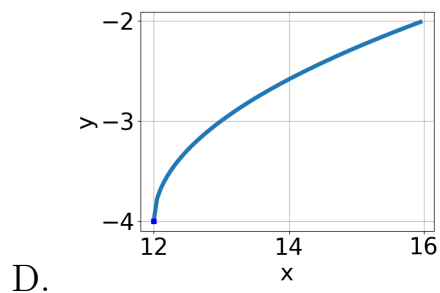
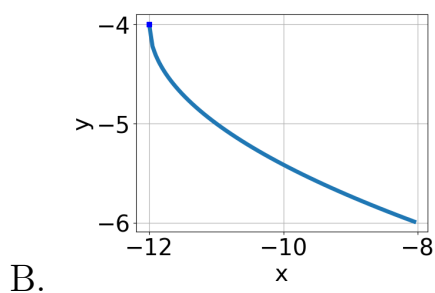
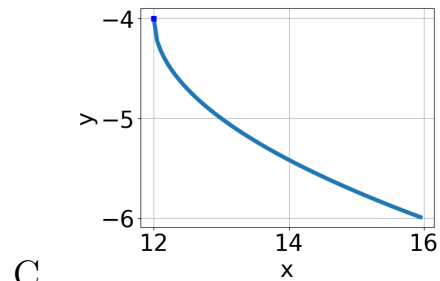
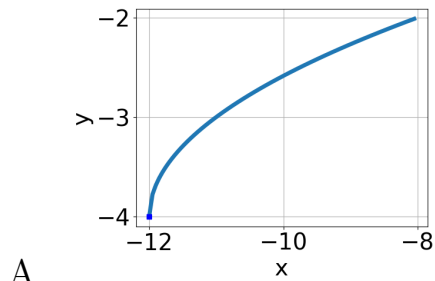
- A. $x_1 \in [-2.8, -2.21]$ and $x_2 \in [-2.18, -1.85]$
- B. $x \in [-0.13, 0.29]$
- C. $x_1 \in [-2.8, -2.21]$ and $x_2 \in [-2.38, -2.1]$

D. $x \in [-2.39, -2.07]$

E. All solutions lead to invalid or complex values in the equation.

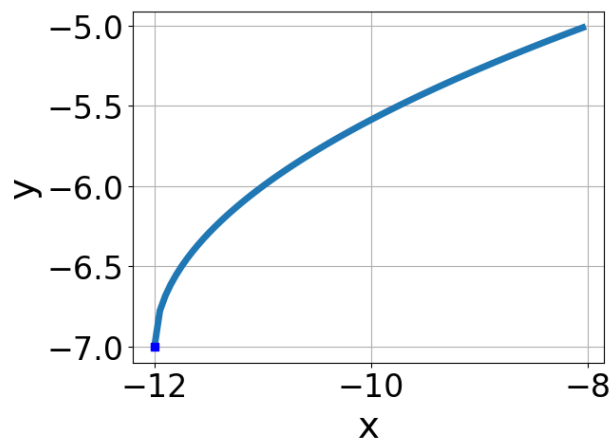
9. Choose the graph of the equation below.

$$f(x) = \sqrt{x - 12} - 4$$



E. None of the above.

10. Choose the equation of the function graphed below.



A. $f(x) = -\sqrt{x + 12} - 7$

- B. $f(x) = \sqrt{x + 12} - 7$
 - C. $f(x) = \sqrt{x - 12} - 7$
 - D. $f(x) = -\sqrt{x - 12} - 7$
 - E. None of the above
-