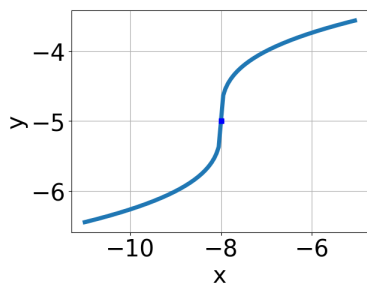
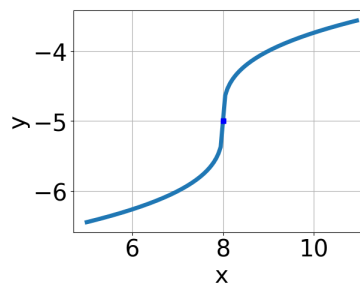


1. Choose the graph of the equation below.

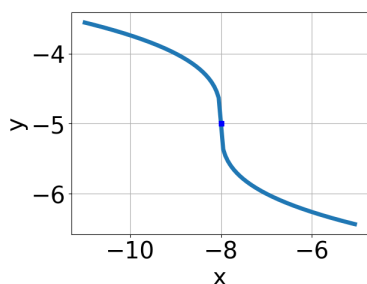
$$f(x) = -\sqrt[3]{x-8} - 5$$



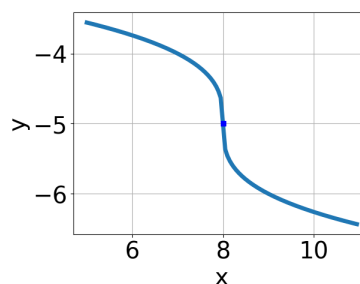
A.



C.



B.



D.

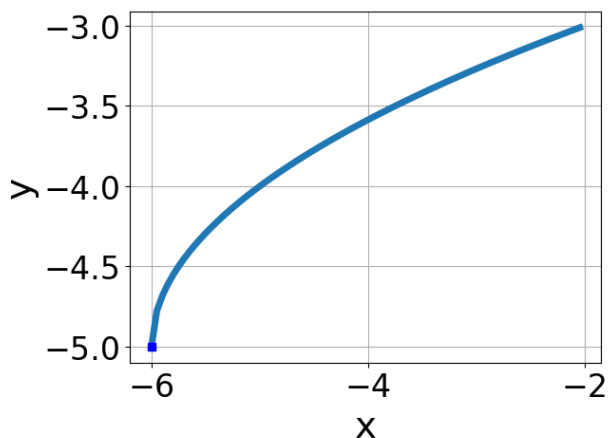
E. None of the above.

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

$$\sqrt{-8x+7} - \sqrt{8x+4} = 0$$

- A. All solutions lead to invalid or complex values in the equation.
- B. $x_1 \in [-0.39, 0.67]$ and $x_2 \in [-6.12, 1.88]$
- C. $x \in [-0.39, 0.67]$
- D. $x_1 \in [-1.29, -0.24]$ and $x_2 \in [-6.12, 1.88]$
- E. $x \in [0.34, 1.19]$

3. Choose the equation of the function graphed below.



- A. $f(x) = \sqrt[3]{x-6} - 5$
- B. $f(x) = \sqrt[3]{x+6} - 5$
- C. $f(x) = -\sqrt[3]{x+6} - 5$
- D. $f(x) = -\sqrt[3]{x-6} - 5$
- E. None of the above

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

$$\sqrt{12x^2 + 81} - \sqrt{72x} = 0$$

- A. $x \in [3.5, 6.5]$
- B. $x_1 \in [1.5, 3.5]$ and $x_2 \in [4.5, 6.5]$
- C. $x \in [1.5, 3.5]$
- D. $x_1 \in [-9.5, -2.5]$ and $x_2 \in [-4.5, 2.5]$
- E. All solutions lead to invalid or complex values in the equation.

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

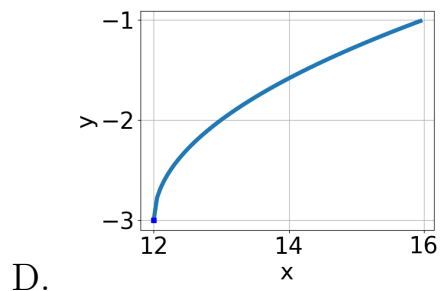
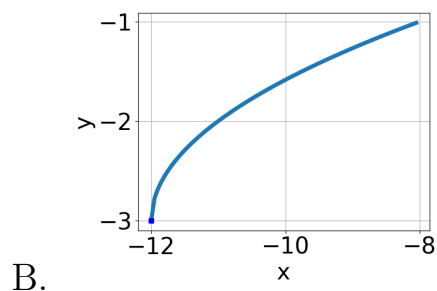
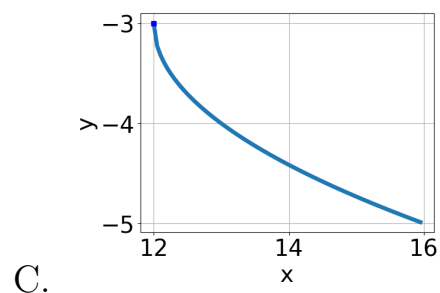
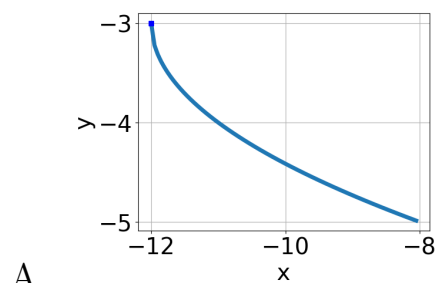
$$\sqrt{9x-6} - \sqrt{3x+6} = 0$$

- A. $x_1 \in [-2.56, -1.81]$ and $x_2 \in [-0.33, 1.67]$

- B. $x_1 \in [0.32, 1.17]$ and $x_2 \in [1, 6]$
- C. $x \in [1.63, 2.6]$
- D. All solutions lead to invalid or complex values in the equation.
- E. $x \in [-0.88, 0.49]$

6. Choose the graph of the equation below.

$$f(x) = -\sqrt{x+12} - 3$$



E. None of the above.

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

$$\sqrt{-54x^2 - 30} - \sqrt{-81x} = 0$$

- A. $x \in [0.44, 0.73]$
- B. $x_1 \in [-0.8, -0.43]$ and $x_2 \in [-1.9, -0.3]$
- C. $x \in [0.76, 0.96]$
- D. $x_1 \in [0.44, 0.73]$ and $x_2 \in [0.3, 2.2]$

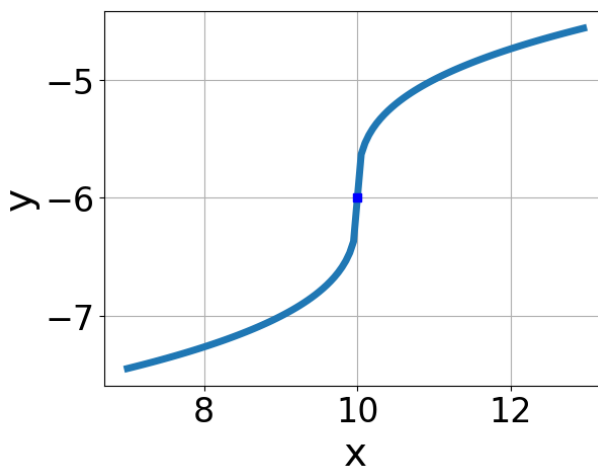
E. All solutions lead to invalid or complex values in the equation.

8. What is the domain of the function below?

$$f(x) = \sqrt[3]{-4x - 5}$$

- A. The domain is $(-\infty, a]$, where $a \in [-0.91, -0.61]$
 - B. $(-\infty, \infty)$
 - C. The domain is $[a, \infty)$, where $a \in [-2.88, -1.23]$
 - D. The domain is $(-\infty, a]$, where $a \in [-2.24, -0.81]$
 - E. The domain is $[a, \infty)$, where $a \in [-1.01, -0.02]$
-

9. Choose the equation of the function graphed below.



- A. $f(x) = -\sqrt{x - 10} - 6$
 - B. $f(x) = \sqrt{x - 10} - 6$
 - C. $f(x) = \sqrt{x + 10} - 6$
 - D. $f(x) = -\sqrt{x + 10} - 6$
 - E. None of the above
-

10. What is the domain of the function below?

$$f(x) = \sqrt[8]{7x + 4}$$

- A. $(-\infty, a]$, where $a \in [-3.3, -1.17]$
 - B. $(-\infty, \infty)$
 - C. $(-\infty, a]$, where $a \in [-0.66, -0.36]$
 - D. $[a, \infty)$, where $a \in [-4.1, -0.58]$
 - E. $[a, \infty)$, where $a \in [-1.02, -0.28]$
-