

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

$$\sqrt{-16x^2 + 30} - \sqrt{-28x} = 0$$

- A. $x_1 \in [-0.6, 1.5]$ and $x_2 \in [-2, 8]$
 - B. $x \in [1.4, 4.3]$
 - C. $x \in [-2.4, -0.3]$
 - D. All solutions lead to invalid or complex values in the equation.
 - E. $x_1 \in [-2.4, -0.3]$ and $x_2 \in [-2, 8]$
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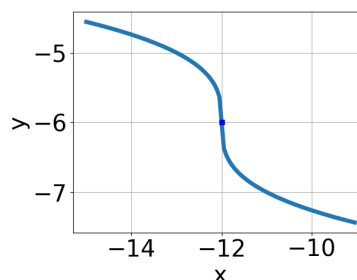
2. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{-5x - 4} - \sqrt{5x - 5} = 0$$

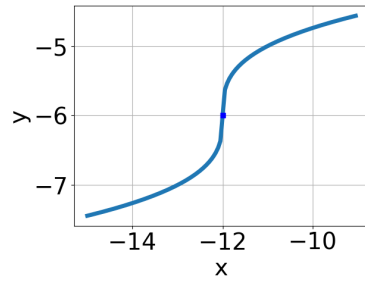
- A. All solutions lead to invalid or complex values in the equation.
 - B. $x \in [-0.92, -0.88]$
 - C. $x_1 \in [-0.84, -0.72]$ and $x_2 \in [-2.1, 0.4]$
 - D. $x \in [0.09, 0.13]$
 - E. $x_1 \in [-0.84, -0.72]$ and $x_2 \in [0.2, 3.3]$
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3. Choose the graph of the equation below.

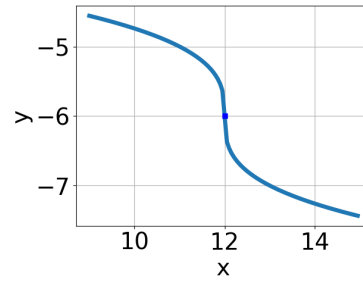
$$f(x) = -\sqrt[3]{x - 12} - 6$$



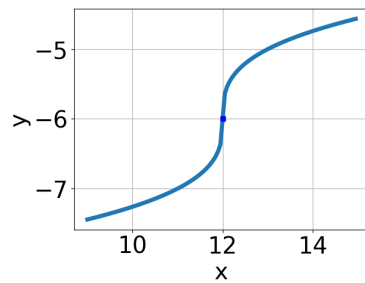
A.



B.



D.



C.

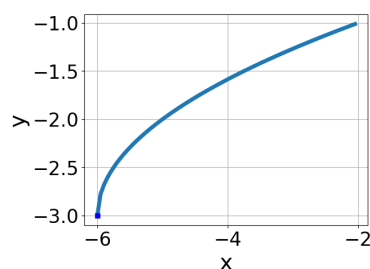
E. None of the above.

4. What is the domain of the function below?

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

- A. $[a, \infty)$, where $a \in [-1.55, -1.12]$
- B. $(-\infty, \infty)$
- C. $[a, \infty)$, where $a \in [-1.12, -0.57]$
- D. $(-\infty, a]$, where $a \in [-1, 3.5]$
- E. $(-\infty, a]$, where $a \in [-2.5, -1]$

5. Choose the equation of the function graphed below.



- A. $f(x) = \sqrt[3]{x-6} - 4$
 - B. $f(x) = -\sqrt[3]{x+6} - 4$
 - C. $f(x) = -\sqrt[3]{x-6} - 4$
 - D. $f(x) = \sqrt[3]{x+6} - 4$
 - E. None of the above
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