

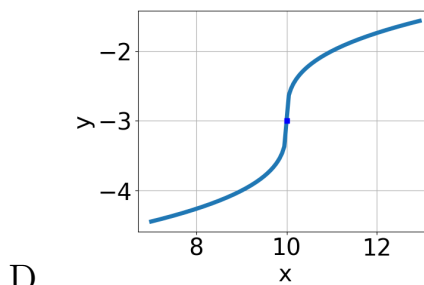
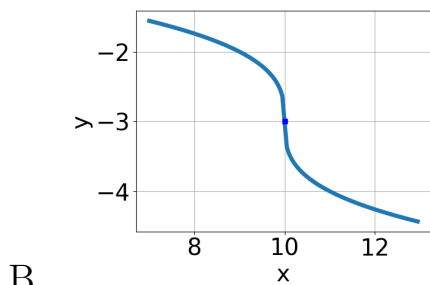
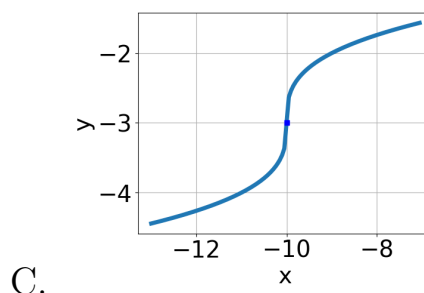
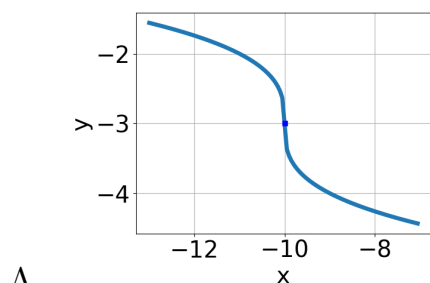
1. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{-27x^2 + 16} - \sqrt{24x} = 0$$

- A. $x_1 \in [-3, 0]$ and $x_2 \in [-1.9, 0.5]$
 B. $x \in [-3, 0]$
 C. $x_1 \in [0, 6]$ and $x_2 \in [0.7, 2]$
 D. $x \in [0, 6]$
 E. All solutions lead to invalid or complex values in the equation.

2. Choose the graph of the equation below.

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



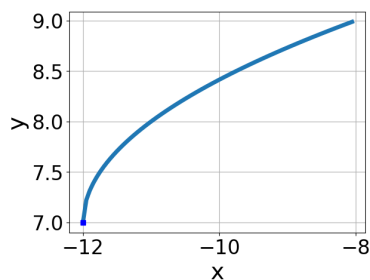
- E. None of the above.

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

$$\sqrt{-9x + 5} - \sqrt{-4x + 2} = 0$$

- A. $x \in [1.4, 1.49]$
 - B. $x_1 \in [0.55, 0.56]$ and $x_2 \in [0.59, 0.64]$
 - C. $x \in [0.59, 0.61]$
 - D. $x_1 \in [0.43, 0.53]$ and $x_2 \in [0.5, 0.58]$
 - E. All solutions lead to invalid or complex values in the equation.
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4. 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
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5. What is the domain of the function below?

$$f(x) = \sqrt[7]{-6x + 3}$$

- A. The domain is $[a, \infty)$, where $a \in [-0.3, 1.2]$
- B. $(-\infty, \infty)$
- C. The domain is $(-\infty, a]$, where $a \in [-2.1, 1.9]$

D. The domain is $(-\infty, a]$, where $a \in [0.7, 4.1]$

E. The domain is $[a, \infty)$, where $a \in [1.9, 4]$
