

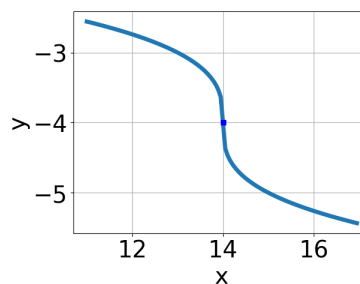
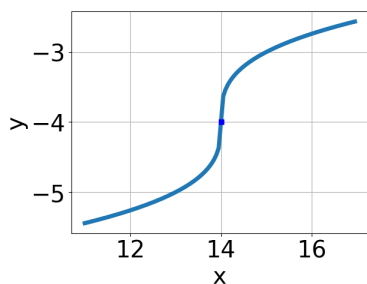
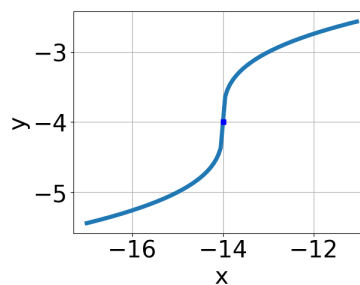
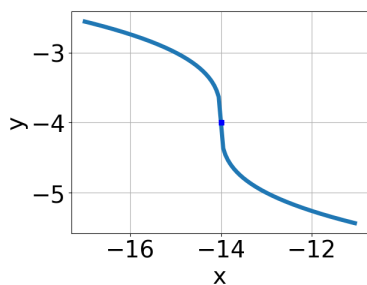
1. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{2x - 7} - \sqrt{-4x - 8} = 0$$

- A. All solutions lead to invalid or complex values in the equation.
B. $x \in [-1.1, 1.7]$
C. $x_1 \in [-3.5, -0.3]$ and $x_2 \in [3, 7]$
D. $x \in [2.4, 4.6]$
E. $x_1 \in [-1.1, 1.7]$ and $x_2 \in [3, 7]$
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2. Choose the graph of the equation below.

$$f(x) = \sqrt[3]{x + 14} - 4$$



- E. None of the above.
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3. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{45x^2 + 42} - \sqrt{93x} = 0$$

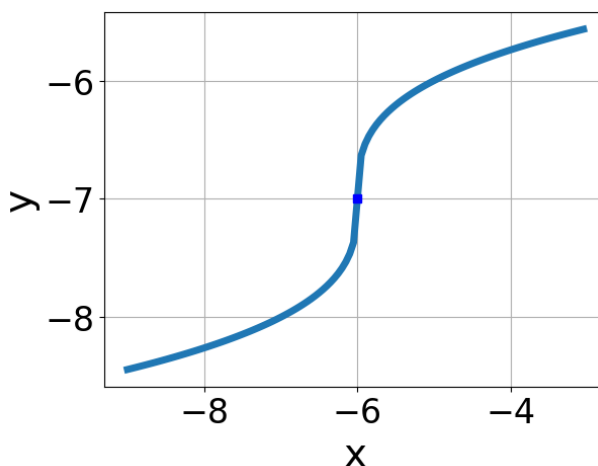
- A. $x \in [1.01, 1.85]$
 - B. All solutions lead to invalid or complex values in the equation.
 - C. $x_1 \in [-1.43, -0.56]$ and $x_2 \in [-0.9, -0.4]$
 - D. $x_1 \in [0.62, 1.27]$ and $x_2 \in [0.8, 2.4]$
 - E. $x \in [0.62, 1.27]$
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4. What is the domain of the function below?

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

- A. The domain is $[a, \infty)$, where $a \in [0.34, 1.05]$
 - B. The domain is $(-\infty, a]$, where $a \in [1.13, 1.59]$
 - C. $(-\infty, \infty)$
 - D. The domain is $(-\infty, a]$, where $a \in [0.31, 0.82]$
 - E. The domain is $[a, \infty)$, where $a \in [1.11, 2.02]$
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5. Choose the equation of the function graphed below.



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

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

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

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

E. None of the above
