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

$$\sqrt{-16x^2 - 63} - \sqrt{-64x} = 0$$

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

B. $x_1 \in [-1.79, -1.36]$ and $x_2 \in [-7, 0]$

C. $x \in [1.27, 1.95]$

D. $x \in [2.15, 2.53]$

E. $x_1 \in [1.27, 1.95]$ and $x_2 \in [0, 5]$

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

$$\sqrt{2x - 6} - \sqrt{-4x + 2} = 0$$

A. $x_1 \in [0.29, 0.52]$ and $x_2 \in [1, 6]$

B. $x_1 \in [1.09, 1.5]$ and $x_2 \in [1, 6]$

C. $x \in [1.09, 1.5]$

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

E. $x \in [0.57, 0.93]$

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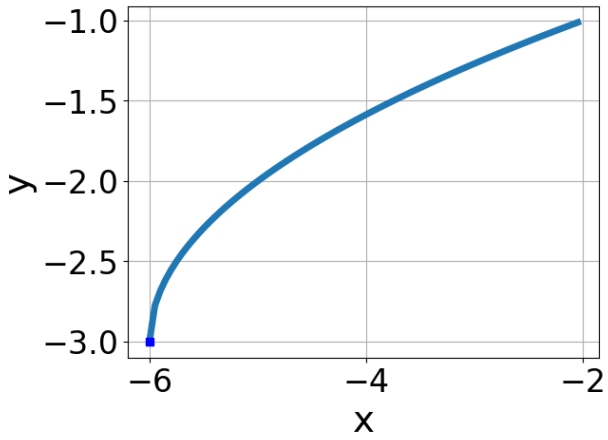
3. Choose the equation of the function graphed below.



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

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

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

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

E. None of the above

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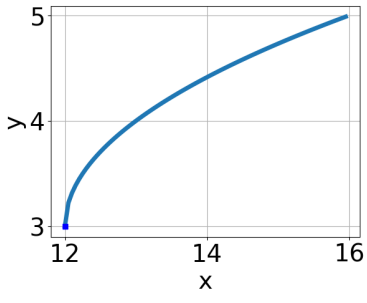
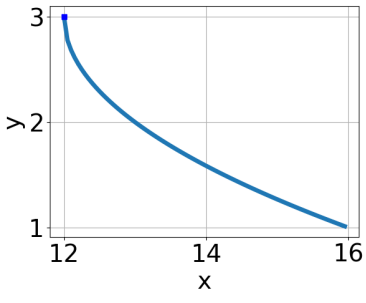
4. Choose the graph of the equation below.

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

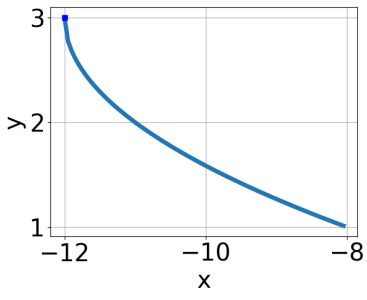
A.



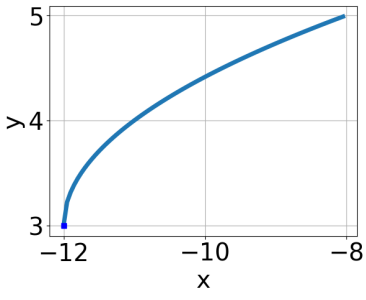
C.



B.



D.



E. None of the above.

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5. What is the domain of the function below?

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

A. $[a, \infty)$, where $a \in [-1.6, -0.5]$

B. $(-\infty, a]$, where $a \in [-1.2, 0.9]$

C. $[a, \infty)$, where $a \in [-3.6, -1.3]$

D. $(-\infty, \infty)$

E. $(-\infty, a]$, where $a \in [-3.2, -1]$
