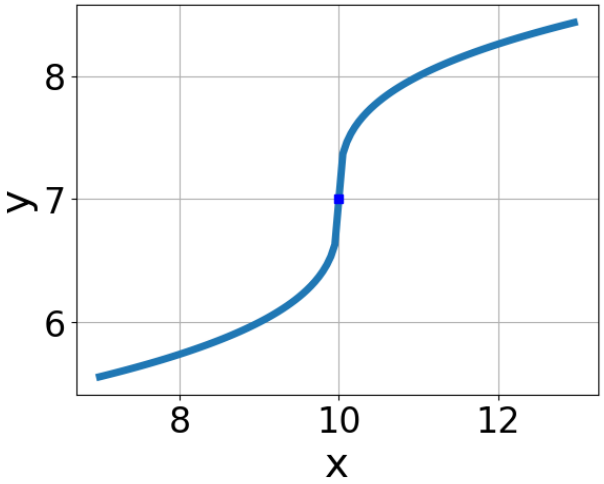
1. Choose the equation of the function graphed below.



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

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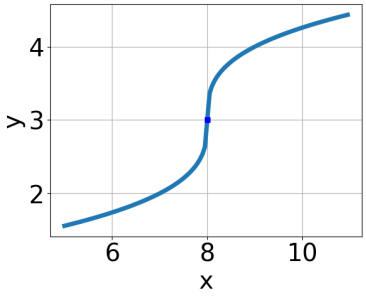
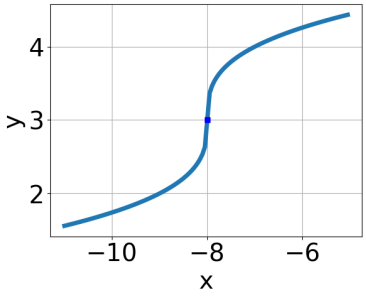
2. Choose the graph of the equation below.

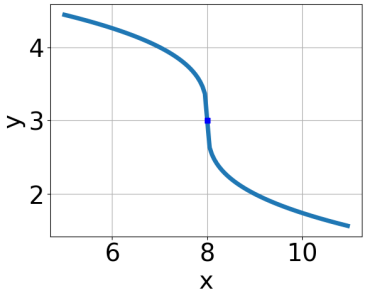
$$f(x) = \sqrt[3]{x-8} + 3$$

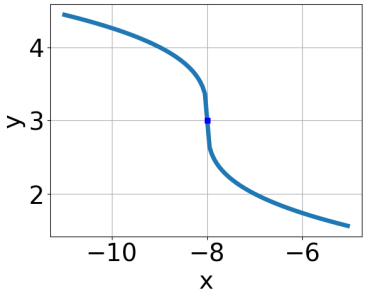
A.



B.



C. 

D. 

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.

$$\sqrt{6x+3} - \sqrt{4x+3} = 0$$

A. $x \in [-0.27, 0.27]$

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

C. $x_1 \in [-1, -0.63]$ and $x_2 \in [-0.66, -0.05]$

D. $x_1 \in [-0.67, -0.47]$ and $x_2 \in [-0.15, 0.38]$

E. $x \in [-3.27, -2.54]$

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4. What is the domain of the function below?

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

A. The domain is $(-\infty, a]$, where $a \in [-1.1, -0.6]$

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

C. The domain is $(-\infty, a]$, where $a \in [-3.1, -1.1]$

D. The domain is $[a, \infty)$, where $a \in [-1.81, -0.76]$

E. The domain is $[a, \infty)$, where $a \in [-0.91, 0.11]$

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

$$\sqrt{36x^2 - 12} - \sqrt{11x} = 0$$

A. $x \in [-0.77, -0.27]$

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

C. $x \in [0.64, 0.83]$

D. $x_1 \in [0.15, 0.62]$ and $x_2 \in [-4, 2]$

E. $x_1 \in [-0.77, -0.27]$ and $x_2 \in [-4, 2]$