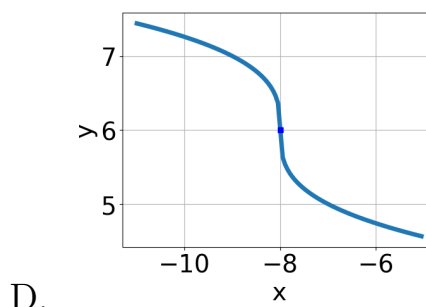
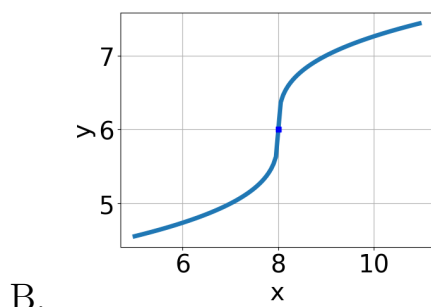
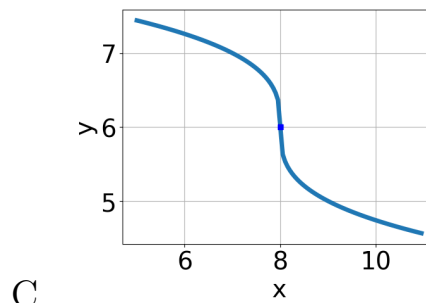
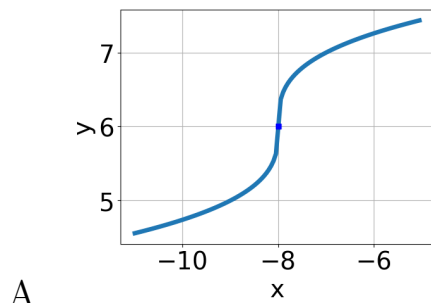


1. Choose the graph of the equation below.

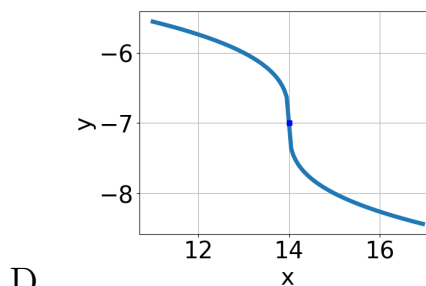
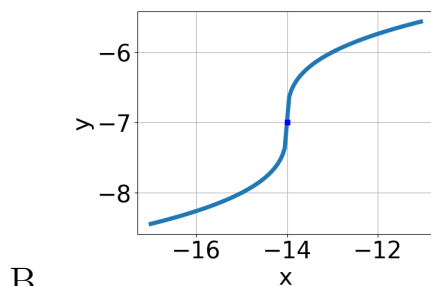
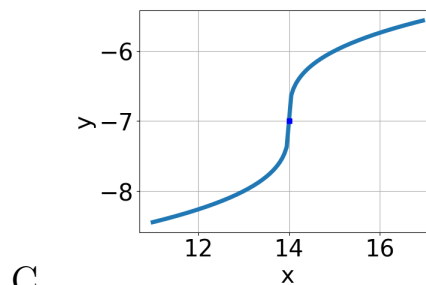
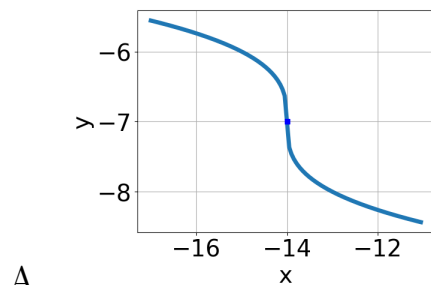
$$f(x) = -\sqrt[3]{x-8} + 6$$



E. None of the above.

2. Choose the graph of the equation below.

$$f(x) = \sqrt[3]{x+14} - 7$$



E. None of the above.

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

$$\sqrt{14x^2 - 72} - \sqrt{-38x} = 0$$

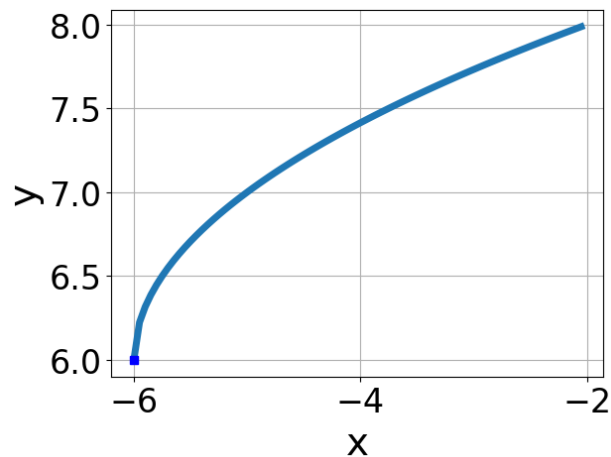
- A. $x_1 \in [-2.71, 5.29]$ and $x_2 \in [4, 5]$
- B. $x \in [-4, -1]$
- C. All solutions lead to invalid or complex values in the equation.
- D. $x \in [-2.71, 5.29]$
- E. $x_1 \in [-4, -1]$ and $x_2 \in [-2.71, 2.29]$

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

$$\sqrt{8x - 6} - \sqrt{-8x - 4} = 0$$

- A. $x_1 \in [-0.96, -0.29]$ and $x_2 \in [-0.25, 5.75]$
- B. All solutions lead to invalid or complex values in the equation.
- C. $x \in [0.48, 0.65]$
- D. $x_1 \in [-0.43, 0.17]$ and $x_2 \in [-0.25, 5.75]$
- E. $x \in [-0.43, 0.17]$

-
5. Choose the equation of the function graphed below.



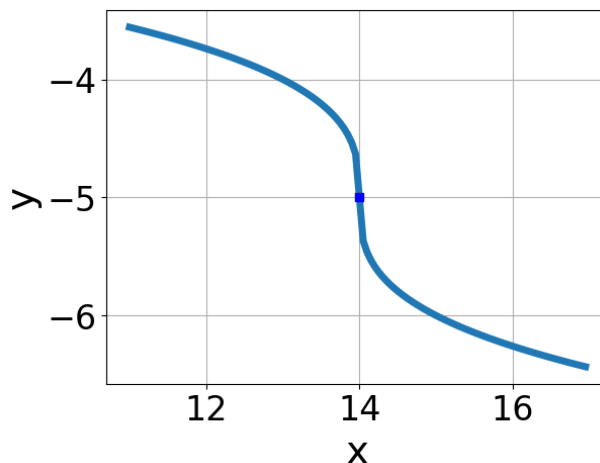
- A. $f(x) = \sqrt{x+6} + 6$
- B. $f(x) = \sqrt{x-6} + 6$
- C. $f(x) = -\sqrt{x-6} + 6$
- D. $f(x) = -\sqrt{x+6} + 6$
- E. None of the above

6. What is the domain of the function below?

$$f(x) = \sqrt[7]{-6x + 8}$$

- A. The domain is $(-\infty, a]$, where $a \in [0.99, 1.37]$
- B. The domain is $[a, \infty)$, where $a \in [0.85, 1.64]$
- C. $(-\infty, \infty)$
- D. The domain is $[a, \infty)$, where $a \in [0.71, 1.21]$
- E. The domain is $(-\infty, a]$, where $a \in [0.49, 1.26]$

7. Choose the equation of the function graphed below.



- A. $f(x) = -\sqrt[3]{x+14} - 5$
- B. $f(x) = -\sqrt[3]{x-14} - 5$
- C. $f(x) = \sqrt[3]{x-14} - 5$
- D. $f(x) = \sqrt[3]{x+14} - 5$
- E. None of the above

8. What is the domain of the function below?

$$f(x) = \sqrt[5]{4x-8}$$

- A. The domain is $(-\infty, a]$, where $a \in [-2.3, 1.1]$
- B. The domain is $[a, \infty)$, where $a \in [0.46, 1.57]$
- C. The domain is $(-\infty, a]$, where $a \in [1.2, 2.1]$
- D. $(-\infty, \infty)$
- E. The domain is $[a, \infty)$, where $a \in [0.72, 3.83]$

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

$$\sqrt{12x^2 + 14} - \sqrt{-34x} = 0$$

- A. $x \in [-0.92, -0.49]$

- B. All solutions lead to invalid or complex values in the equation.
 - C. $x \in [-3.06, -1.82]$
 - D. $x_1 \in [-0.27, 0.9]$ and $x_2 \in [1.33, 4.33]$
 - E. $x_1 \in [-3.06, -1.82]$ and $x_2 \in [-1.5, 0.5]$
-

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

$$\sqrt{-3x - 2} - \sqrt{4x + 6} = 0$$

- A. $x \in [-0.09, 2.26]$
 - B. $x \in [-1.25, -0.58]$
 - C. $x_1 \in [-1.88, -1.2]$ and $x_2 \in [-2.67, 3.33]$
 - D. All solutions lead to invalid or complex values in the equation.
 - E. $x_1 \in [-1.25, -0.58]$ and $x_2 \in [-2.67, 3.33]$
-