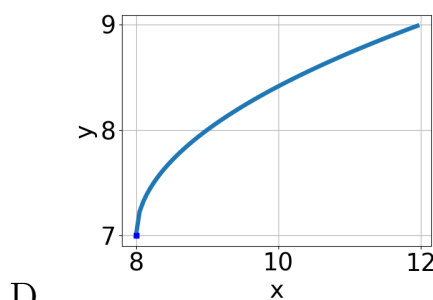
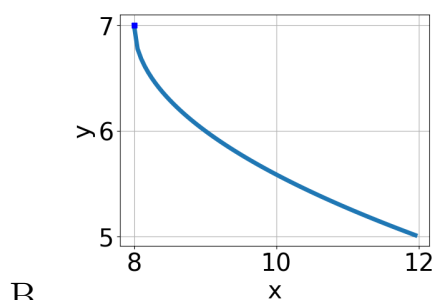
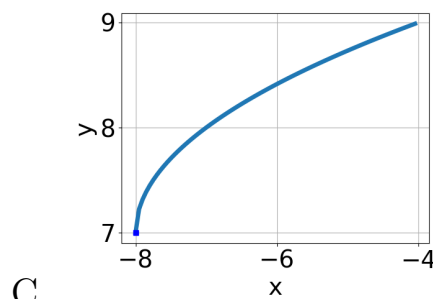
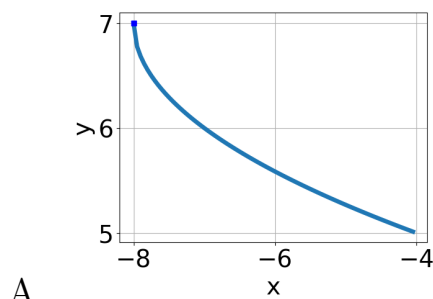


1. Choose the graph of the equation below.

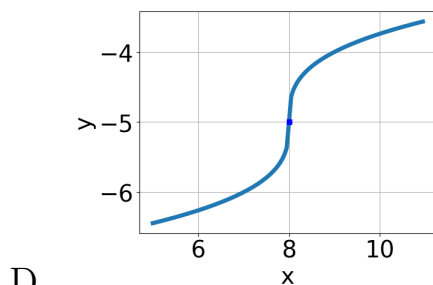
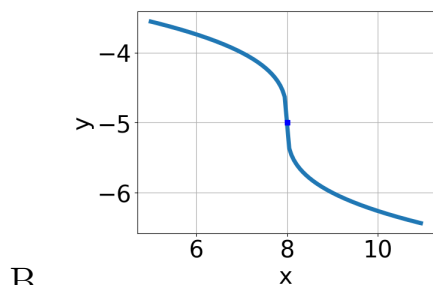
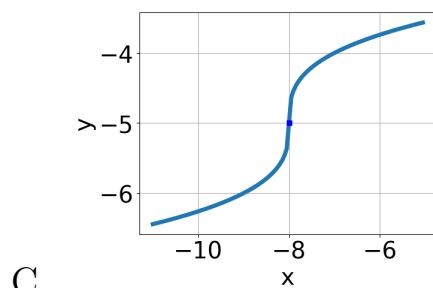
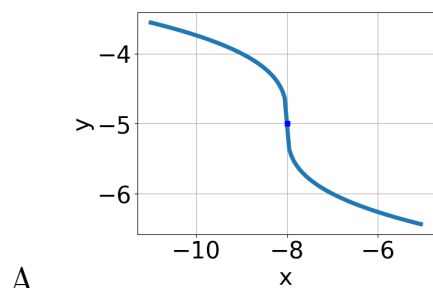
$$f(x) = \sqrt{x - 8} + 7$$



E. None of the above.

2. Choose the graph of the equation below.

$$f(x) = -\sqrt[3]{x + 8} - 5$$



E. None of the above.

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

$$\sqrt{-18x^2 + 54} - \sqrt{-69x} = 0$$

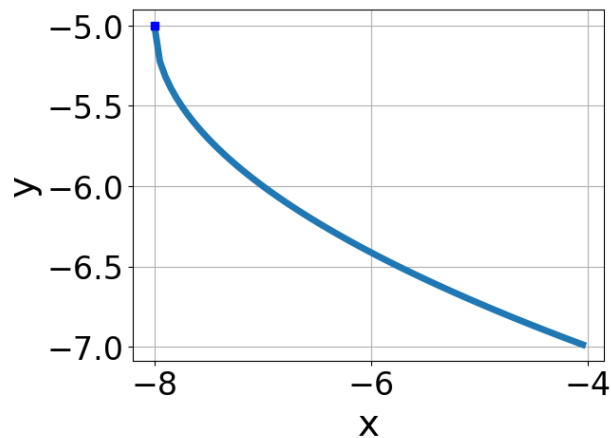
- A. $x \in [2, 6.3]$
 - B. $x_1 \in [0.6, 0.9]$ and $x_2 \in [1.5, 7.5]$
 - C. $x \in [-2.5, 0.2]$
 - D. All solutions lead to invalid or complex values in the equation.
 - E. $x_1 \in [-2.5, 0.2]$ and $x_2 \in [1.5, 7.5]$
-

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

$$\sqrt{2x - 7} - \sqrt{-4x - 9} = 0$$

- A. $x \in [-1.8, -0.3]$
 - B. $x \in [2.3, 3.4]$
 - C. $x_1 \in [-2.9, -1.2]$ and $x_2 \in [0.5, 5.5]$
 - D. $x_1 \in [-1.8, -0.3]$ and $x_2 \in [0.5, 5.5]$
 - E. All solutions lead to invalid or complex values in the equation.
-

5. Choose the equation of the function graphed below.



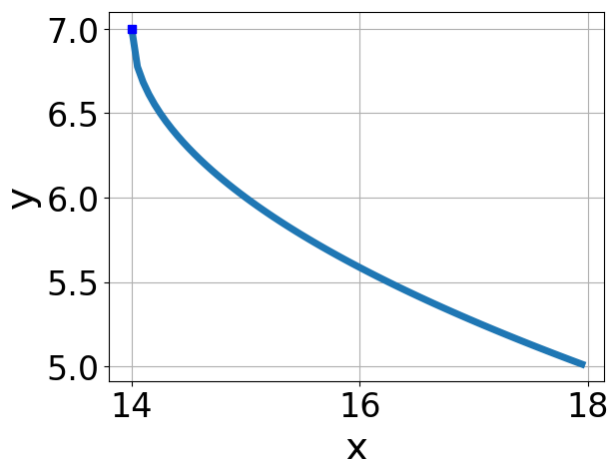
- A. $f(x) = -\sqrt[3]{x-8} - 5$
- B. $f(x) = \sqrt[3]{x-8} - 5$
- C. $f(x) = \sqrt[3]{x+8} - 5$
- D. $f(x) = -\sqrt[3]{x+8} - 5$
- E. None of the above

6. What is the domain of the function below?

$$f(x) = \sqrt[8]{6x-4}$$

- A. $(-\infty, \infty)$
- B. $(-\infty, a]$, where $a \in [0.9, 2.13]$
- C. $(-\infty, a]$, where $a \in [0.33, 0.73]$
- D. $[a, \infty)$, where $a \in [0.22, 0.71]$
- E. $[a, \infty)$, where $a \in [1.48, 1.57]$

7. Choose the equation of the function graphed below.



- A. $f(x) = -\sqrt[3]{x-14} + 7$
- B. $f(x) = \sqrt[3]{x+14} + 7$
- C. $f(x) = \sqrt[3]{x-14} + 7$
- D. $f(x) = -\sqrt[3]{x+14} + 7$
- E. None of the above

8. What is the domain of the function below?

$$f(x) = \sqrt[8]{-5x-3}$$

- A. $[a, \infty)$, where $a \in [-5.2, -1.5]$
- B. $(-\infty, a]$, where $a \in [-2.31, -1.53]$
- C. $(-\infty, a]$, where $a \in [-0.64, -0.23]$
- D. $(-\infty, \infty)$
- E. $[a, \infty)$, where $a \in [-0.7, 0.7]$

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

$$\sqrt{64x^2 + 18} - \sqrt{88x} = 0$$

- A. $x \in [0.33, 2.19]$

- B. $x_1 \in [-1.57, -0.3]$ and $x_2 \in [-3, 0.3]$
- C. All solutions lead to invalid or complex values in the equation.
- D. $x \in [-0.97, 1.04]$
- E. $x_1 \in [-0.97, 1.04]$ and $x_2 \in [1.1, 3.9]$

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

$$\sqrt{-5x - 3} - \sqrt{-4x - 7} = 0$$

- A. $x_1 \in [-2.81, -1.57]$ and $x_2 \in [-3.6, 0.4]$
 - B. $x_1 \in [-1.07, -0.56]$ and $x_2 \in [4, 5]$
 - C. $x \in [3.35, 4.65]$
 - D. All solutions lead to invalid or complex values in the equation.
 - E. $x \in [-10.77, -8.12]$
-