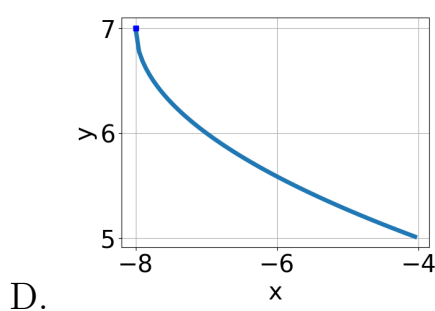
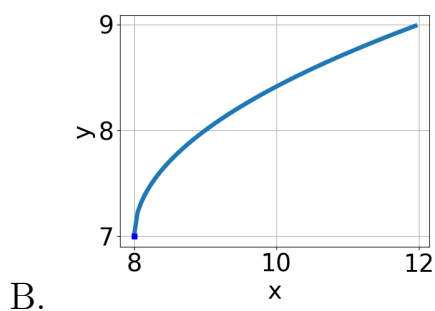
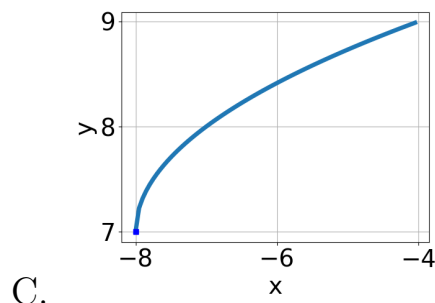
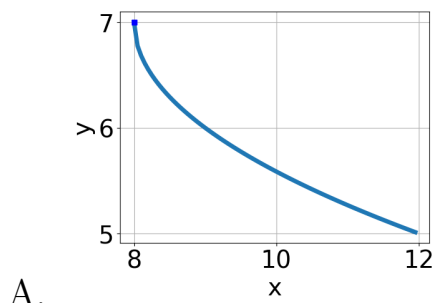


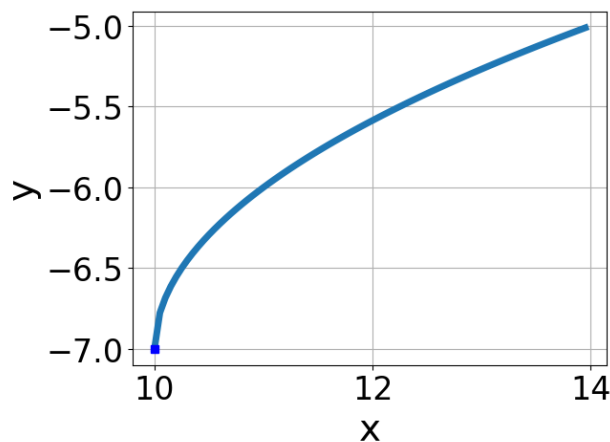
1. Choose the graph of the equation below.

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



E. None of the above.

2. Choose the equation of the function graphed below.



A. $f(x) = -\sqrt{x + 10} - 7$

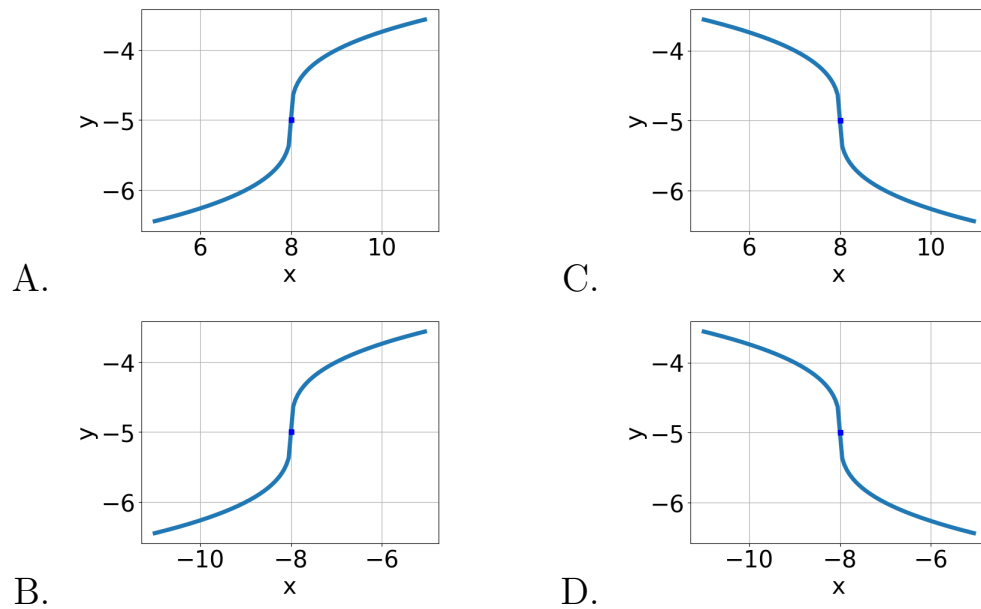
B. $f(x) = \sqrt{x - 10} - 7$

C. $f(x) = \sqrt{x + 10} - 7$

- D. $f(x) = -\sqrt{x-10} - 7$
 E. None of the above

3. Choose the graph of the equation below.

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



- E. None of the above.

4. What is the domain of the function below?

$$f(x) = \sqrt[6]{-3x-5}$$

- A. $[a, \infty)$, where $a \in [-1.84, -1.44]$
 B. $(-\infty, \infty)$
 C. $(-\infty, a]$, where $a \in [-0.6, 0.4]$
 D. $(-\infty, a]$, where $a \in [-1.67, -0.67]$
 E. $[a, \infty)$, where $a \in [-1.32, -0.26]$

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

$$\sqrt{28x^2 + 24} - \sqrt{-52x} = 0$$

- A. $x \in [-1.03, -0.95]$
- B. $x_1 \in [0.51, 0.94]$ and $x_2 \in [0, 2]$
- C. All solutions lead to invalid or complex values in the equation.
- D. $x_1 \in [-1.03, -0.95]$ and $x_2 \in [-0.86, 0.14]$
- E. $x \in [-0.96, -0.67]$

6. What is the domain of the function below?

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

- A. $(-\infty, \infty)$
- B. The domain is $[a, \infty)$, where $a \in [-1.05, -0.1]$
- C. The domain is $(-\infty, a]$, where $a \in [-1.51, -1.1]$
- D. The domain is $(-\infty, a]$, where $a \in [-0.86, -0.51]$
- E. The domain is $[a, \infty)$, where $a \in [-1.35, -0.92]$

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

$$\sqrt{-72x^2 - 27} - \sqrt{99x} = 0$$

- A. $x \in [-2.07, -0.9]$
- B. All solutions lead to invalid or complex values in the equation.
- C. $x \in [-0.65, 0.87]$
- D. $x_1 \in [0.44, 1.54]$ and $x_2 \in [0.19, 0.54]$
- E. $x_1 \in [-2.07, -0.9]$ and $x_2 \in [-1.36, 0.23]$

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

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

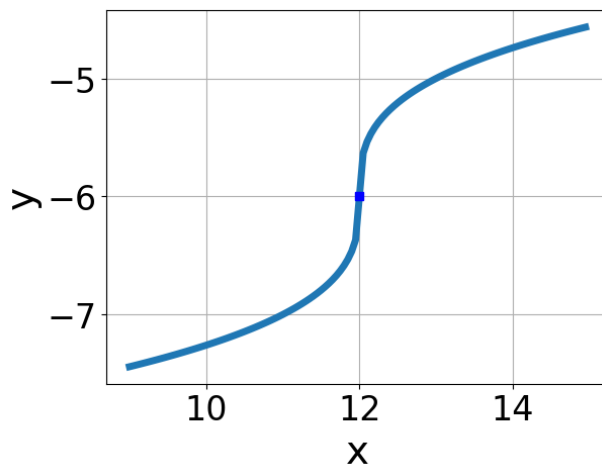
- A. $x \in [-0.48, 0.1]$
 - B. $x \in [0.33, 0.48]$
 - C. $x_1 \in [-0.04, 0.27]$ and $x_2 \in [0.57, 0.64]$
 - D. $x_1 \in [-0.04, 0.27]$ and $x_2 \in [0.26, 0.4]$
 - E. All solutions lead to invalid or complex values in the equation.
-

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

$$\sqrt{-5x - 8} - \sqrt{-7x + 5} = 0$$

- A. $x_1 \in [-5.6, 0.4]$ and $x_2 \in [2.5, 7.5]$
 - B. $x \in [1.5, 2.5]$
 - C. $x \in [3.5, 7.5]$
 - D. $x_1 \in [-5.6, 0.4]$ and $x_2 \in [-4.29, 2.71]$
 - E. All solutions lead to invalid or complex values in the equation.
-

10. Choose the equation of the function graphed below.



- A. $f(x) = -\sqrt{x+12} - 6$
- B. $f(x) = \sqrt{x+12} - 6$
- C. $f(x) = \sqrt{x-12} - 6$
- D. $f(x) = -\sqrt{x-12} - 6$
- E. None of the above