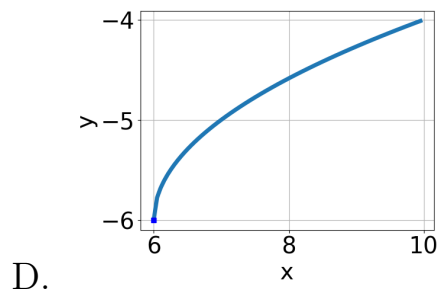
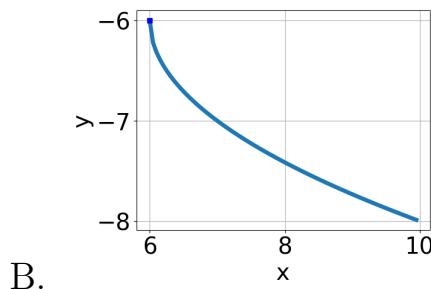
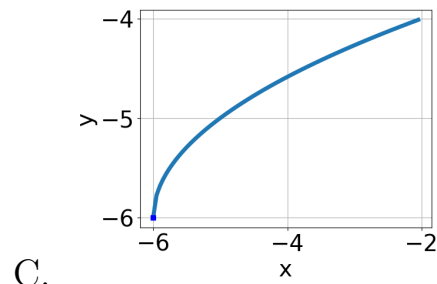
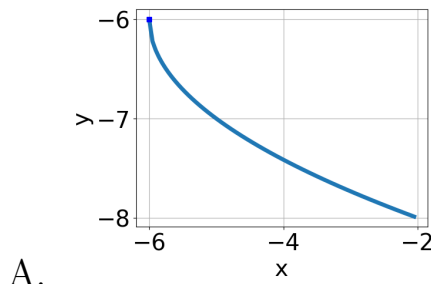


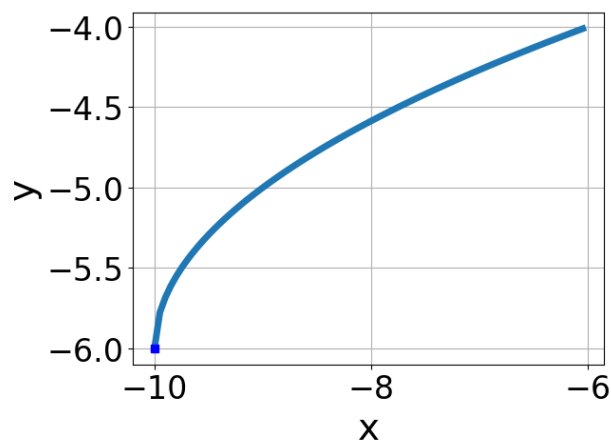
1. Choose the graph of the equation below.

$$f(x) = \sqrt{x - 6} - 6$$



E. None of the above.

2. Choose the equation of the function graphed below.



A. $f(x) = -\sqrt{x - 10} - 6$

B. $f(x) = -\sqrt{x + 10} - 6$

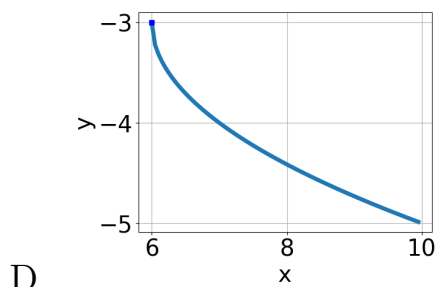
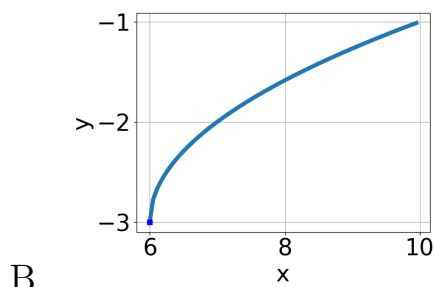
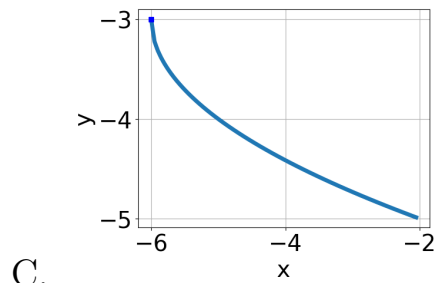
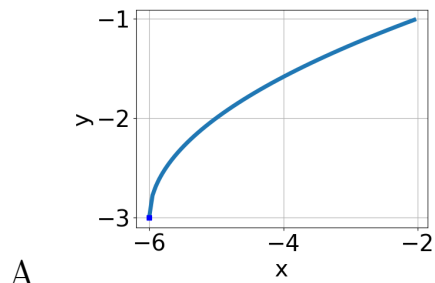
C. $f(x) = \sqrt{x - 10} - 6$

D. $f(x) = \sqrt{x + 10} - 6$

E. None of the above

3. Choose the graph of the equation below.

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



E. None of the above.

4. What is the domain of the function below?

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

A. $(-\infty, a]$, where $a \in [0.05, 0.8]$

B. $(-\infty, a]$, where $a \in [1.14, 1.4]$

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

D. $[a, \infty)$, where $a \in [0.97, 1.48]$

E. $[a, \infty)$, where $a \in [0.75, 1.15]$

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

$$\sqrt{-14x^2 - 18} - \sqrt{-48x} = 0$$

- A. $x_1 \in [-0.11, 0.96]$ and $x_2 \in [3, 6]$
- B. $x \in [-0.11, 0.96]$
- C. $x \in [1.77, 3.24]$
- D. All solutions lead to invalid or complex values in the equation.
- E. $x_1 \in [-1.17, -0.01]$ and $x_2 \in [-3, -1]$

6. What is the domain of the function below?

$$f(x) = \sqrt[6]{7x - 5}$$

- A. $[a, \infty)$, where $a \in [0.22, 0.75]$
- B. $(-\infty, a]$, where $a \in [-1.13, 0.94]$
- C. $[a, \infty)$, where $a \in [0.85, 1.88]$
- D. $(-\infty, a]$, where $a \in [0.83, 1.66]$
- E. $(-\infty, \infty)$

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

$$\sqrt{-48x^2 - 36} - \sqrt{-96x} = 0$$

- A. $x_1 \in [-1.61, 0.05]$ and $x_2 \in [-4.5, -0.5]$
- B. $x \in [-0.25, 0.57]$
- C. All solutions lead to invalid or complex values in the equation.
- D. $x_1 \in [-0.25, 0.57]$ and $x_2 \in [-0.5, 4.5]$
- E. $x \in [1.43, 1.59]$

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

$$\sqrt{4x - 7} - \sqrt{6x - 6} = 0$$

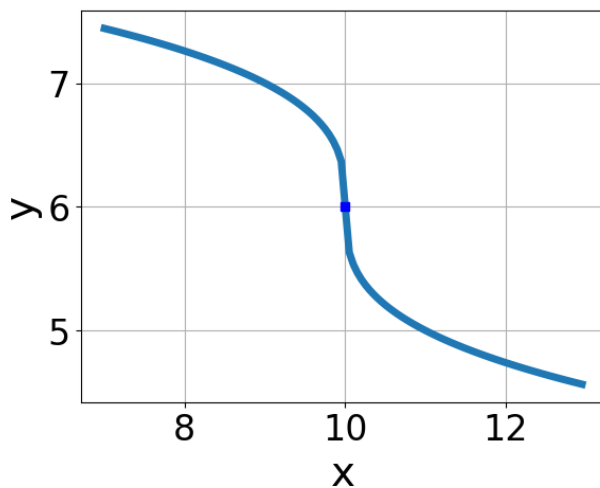
- A. $x \in [-2.5, 0.5]$
 - B. $x \in [-7.5, -3.5]$
 - C. $x_1 \in [-2.5, 0.5]$ and $x_2 \in [-0.25, 8.75]$
 - D. $x_1 \in [1, 7]$ and $x_2 \in [-0.25, 8.75]$
 - E. All solutions lead to invalid or complex values in the equation.
-

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

$$\sqrt{-4x + 8} - \sqrt{8x + 2} = 0$$

- A. $x_1 \in [-0.8, -0.07]$ and $x_2 \in [2, 5]$
 - B. $x_1 \in [0.32, 0.63]$ and $x_2 \in [2, 5]$
 - C. $x \in [0.58, 0.97]$
 - D. $x \in [0.32, 0.63]$
 - E. All solutions lead to invalid or complex values in the equation.
-

10. Choose the equation of the function graphed below.



- A. $f(x) = \sqrt{x - 10} + 6$
- B. $f(x) = -\sqrt{x + 10} + 6$
- C. $f(x) = -\sqrt{x - 10} + 6$
- D. $f(x) = \sqrt{x + 10} + 6$
- E. None of the above