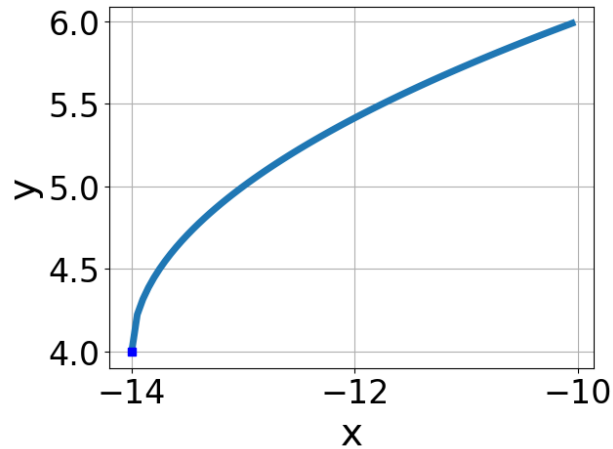


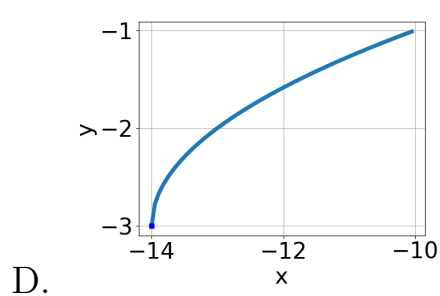
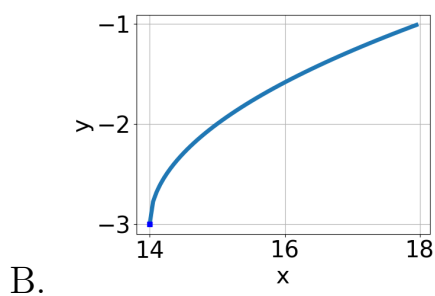
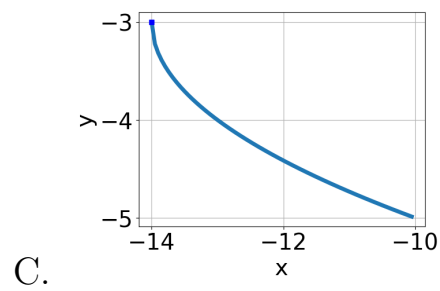
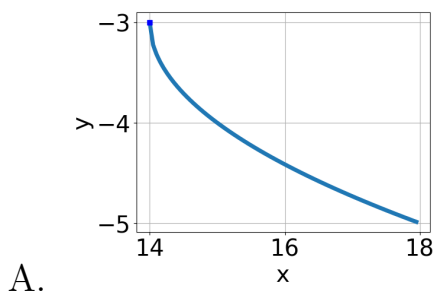
1. Choose the equation of the function graphed below.



- A. $f(x) = \sqrt{x + 14} + 4$
- B. $f(x) = -\sqrt{x + 14} + 4$
- C. $f(x) = \sqrt{x - 14} + 4$
- D. $f(x) = -\sqrt{x - 14} + 4$
- E. None of the above

2. Choose the graph of the equation below.

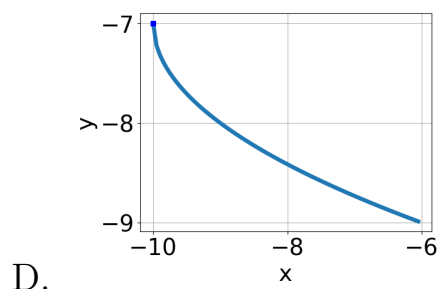
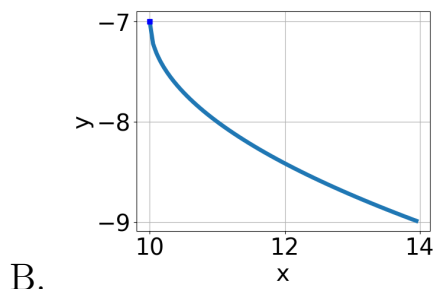
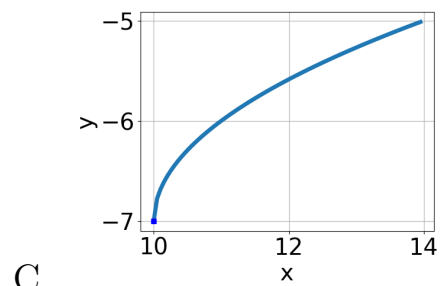
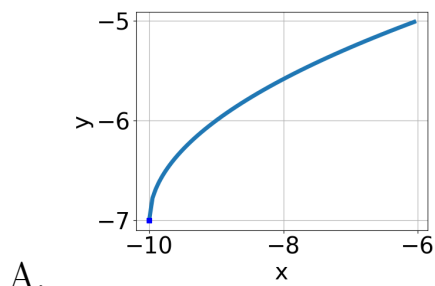
$$f(x) = -\sqrt{x + 14} - 3$$



E. None of the above.

3. Choose the graph of the equation below.

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



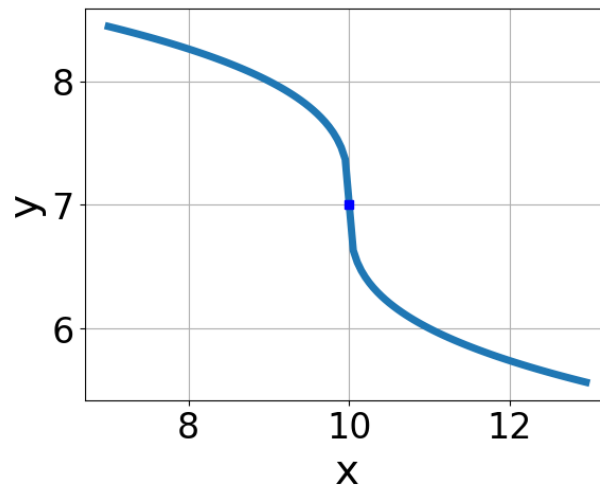
E. None of the above.

4. What is the domain of the function below?

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

- A. $(-\infty, \infty)$
 - B. $[a, \infty)$, where $a \in [-0.93, 0.16]$
 - C. $(-\infty, a]$, where $a \in [-1.39, 1.52]$
 - D. $(-\infty, a]$, where $a \in [-2.94, -1.31]$
 - E. $[a, \infty)$, where $a \in [-4.25, -1.94]$
-

5. 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

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

$$\sqrt{-54x^2 - 18} - \sqrt{93x} = 0$$

- A. $x_1 \in [-1.54, -1.37]$ and $x_2 \in [-1.96, -0.08]$
- B. $x \in [-1.23, 1.19]$
- C. $x \in [-1.54, -1.37]$
- D. $x_1 \in [1.43, 2.19]$ and $x_2 \in [0.01, 0.73]$
- E. All solutions lead to invalid or complex values in the equation.

7. What is the domain of the function below?

$$f(x) = \sqrt[7]{-9x - 3}$$

- A. $(-\infty, \infty)$
 - B. The domain is $(-\infty, a]$, where $a \in [-1.33, 2.67]$
 - C. The domain is $[a, \infty)$, where $a \in [-0.8, 0.9]$
 - D. The domain is $(-\infty, a]$, where $a \in [-7, -1]$
 - E. The domain is $[a, \infty)$, where $a \in [-4.7, -1.9]$
-

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

$$\sqrt{-7x - 4} - \sqrt{-3x - 6} = 0$$

- A. $x \in [0.29, 1.38]$
 - B. All solutions lead to invalid or complex values in the equation.
 - C. $x_1 \in [-0.7, -0.55]$ and $x_2 \in [0.1, 2.2]$
 - D. $x_1 \in [-2.24, -1.59]$ and $x_2 \in [-1.9, -0.3]$
 - E. $x \in [-3.06, -2.35]$
-

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

$$\sqrt{6x - 8} - \sqrt{9x - 9} = 0$$

- A. $x_1 \in [0.77, 1.72]$ and $x_2 \in [0.33, 6.33]$
 - B. All solutions lead to invalid or complex values in the equation.
 - C. $x \in [-0.74, 0.91]$
 - D. $x_1 \in [-0.74, 0.91]$ and $x_2 \in [0.33, 6.33]$
 - E. $x \in [-6.57, -4.96]$
-

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

$$\sqrt{16x^2 + 40} - \sqrt{56x} = 0$$

- A. $x_1 \in [-5.9, -1.2]$ and $x_2 \in [-4, 1]$
 - B. All solutions lead to invalid or complex values in the equation.
 - C. $x \in [-0.8, 1.9]$
 - D. $x_1 \in [-0.8, 1.9]$ and $x_2 \in [0.5, 5.5]$
 - E. $x \in [1.5, 3.3]$
-