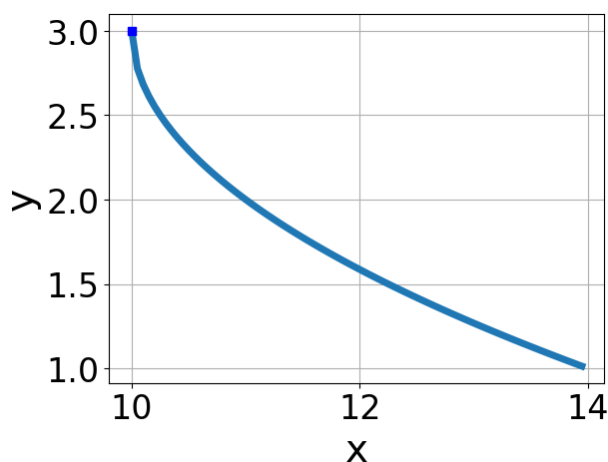


1. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{-45x^2 - 14} - \sqrt{-53x} = 0$$

- A. $x \in [0, 0.62]$
 - B. $x \in [0.49, 0.88]$
 - C. $x_1 \in [0, 0.62]$ and $x_2 \in [-0.07, 0.98]$
 - D. All solutions lead to invalid or complex values in the equation.
 - E. $x_1 \in [-0.47, -0.35]$ and $x_2 \in [-1.8, -0.36]$
-

2. Choose the equation of the function graphed below.



- A. $f(x) = -\sqrt[3]{x-10} + 3$
 - B. $f(x) = -\sqrt[3]{x+10} + 3$
 - C. $f(x) = \sqrt[3]{x+10} + 3$
 - D. $f(x) = \sqrt[3]{x-10} + 3$
 - E. None of the above
-

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

$$\sqrt{81x^2 + 40} - \sqrt{-117x} = 0$$

- A. $x_1 \in [0.54, 0.7]$ and $x_2 \in [-0.3, 2.7]$
 - B. $x \in [-0.65, -0.55]$
 - C. All solutions lead to invalid or complex values in the equation.
 - D. $x \in [-0.93, -0.6]$
 - E. $x_1 \in [-0.93, -0.6]$ and $x_2 \in [-1.7, 0.4]$
-

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

$$\sqrt{-6x - 2} - \sqrt{-7x - 9} = 0$$

- A. $x \in [11, 16]$
 - B. $x_1 \in [-10, -6]$ and $x_2 \in [-2.33, 2.67]$
 - C. $x_1 \in [-3.29, 0.71]$ and $x_2 \in [-2.33, 2.67]$
 - D. All solutions lead to invalid or complex values in the equation.
 - E. $x \in [-10, -6]$
-

5. What is the domain of the function below?

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

- A. $(-\infty, a]$, where $a \in [-1.87, -0.95]$
 - B. $(-\infty, \infty)$
 - C. $[a, \infty)$, where $a \in [-1.02, -0.56]$
 - D. $[a, \infty)$, where $a \in [-1.34, -0.98]$
 - E. $(-\infty, a]$, where $a \in [-0.94, -0.62]$
-

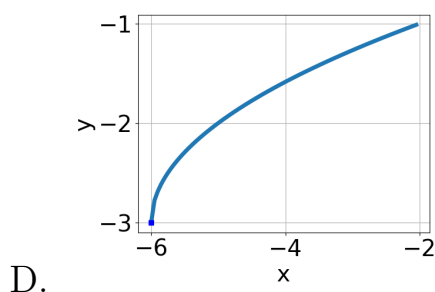
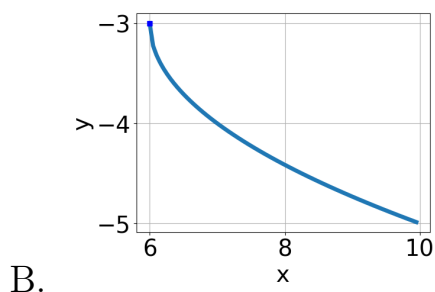
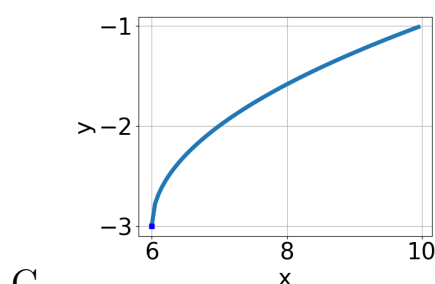
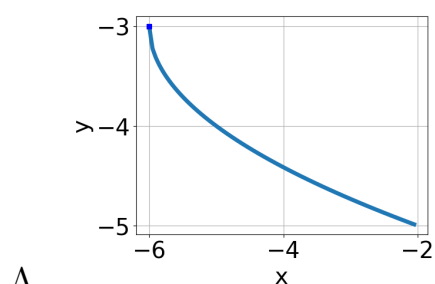
6. What is the domain of the function below?

$$f(x) = \sqrt[4]{7x + 6}$$

- A. $(-\infty, a]$, where $a \in [-1.72, -1.11]$
 B. $[a, \infty)$, where $a \in [-1.46, -0.87]$
 C. $[a, \infty)$, where $a \in [-1.03, -0.64]$
 D. $(-\infty, a]$, where $a \in [-0.87, -0.61]$
 E. $(-\infty, \infty)$

7. Choose the graph of the equation below.

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



E. None of the above.

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

$$\sqrt{4x-7} - \sqrt{-8x+4} = 0$$

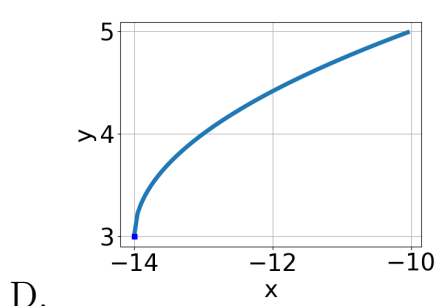
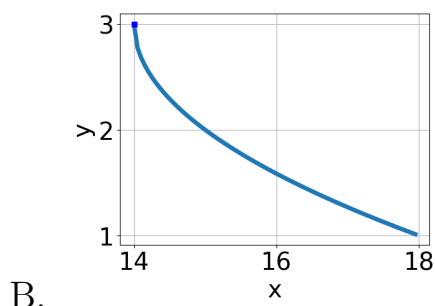
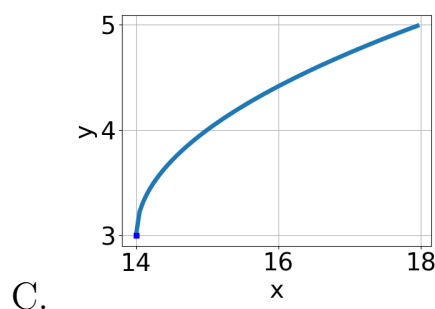
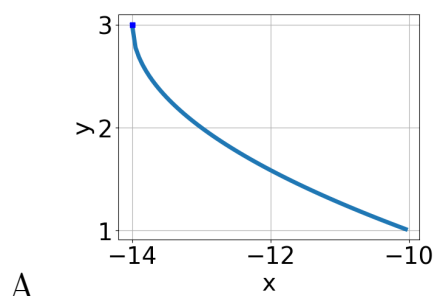
- A. $x \in [0.01, 0.39]$
 B. $x_1 \in [0.83, 1.03]$ and $x_2 \in [1.75, 2.75]$
 C. $x_1 \in [0.33, 0.55]$ and $x_2 \in [1.75, 2.75]$

D. All solutions lead to invalid or complex values in the equation.

E. $x \in [0.83, 1.03]$

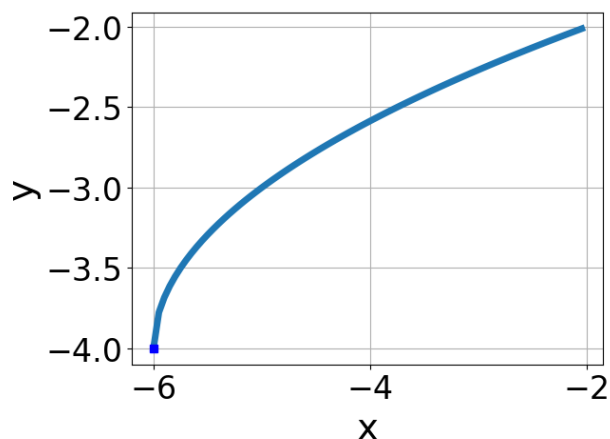
9. Choose the graph of the equation below.

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



E. None of the above.

10. Choose the equation of the function graphed below.



A. $f(x) = -\sqrt[3]{x+6} - 4$

B. $f(x) = -\sqrt[3]{x-6} - 4$

C. $f(x) = \sqrt[3]{x-6} - 4$

D. $f(x) = \sqrt[3]{x+6} - 4$

E. None of the above
