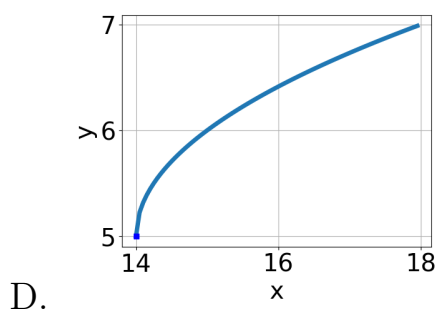
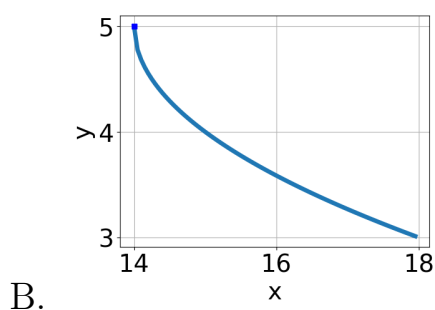
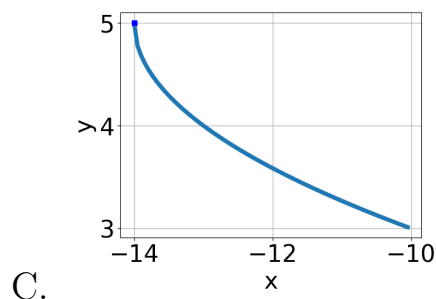
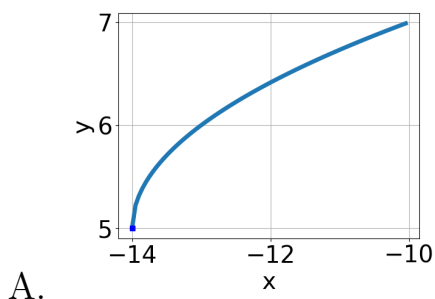


1. Choose the graph of the equation below.

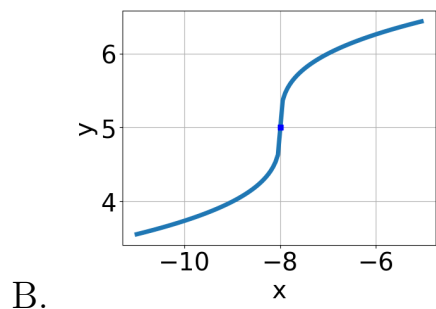
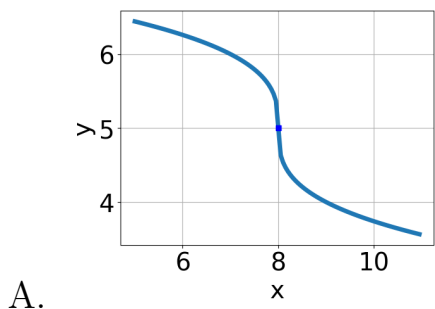
$$f(x) = -\sqrt{x - 14} + 5$$

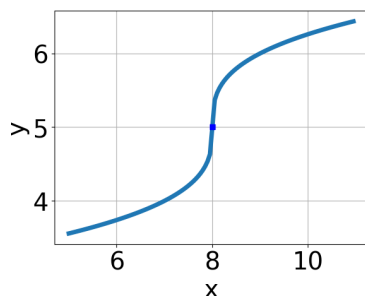


E. None of the above.

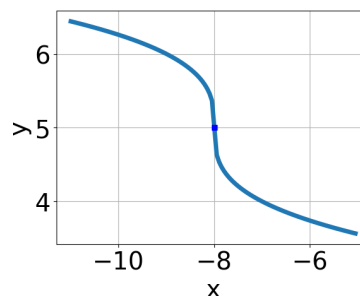
2. Choose the graph of the equation below.

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





C.



D.

E. None of the above.

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

$$\sqrt{-20x^2 + 30} - \sqrt{10x} = 0$$

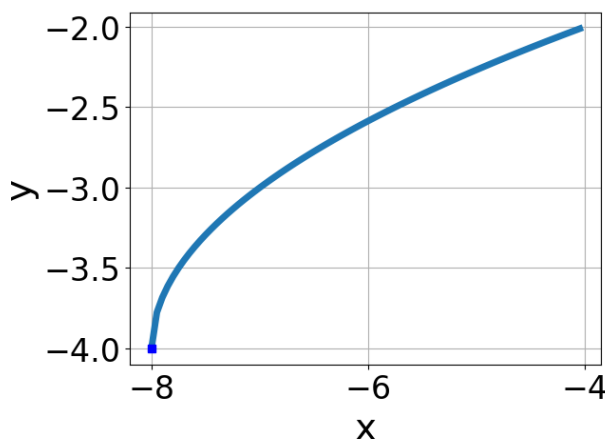
- A. $x_1 \in [-5.5, 0.5]$ and $x_2 \in [0.85, 1.37]$
- B. All solutions lead to invalid or complex values in the equation.
- C. $x \in [-5.5, 0.5]$
- D. $x \in [0, 8]$
- E. $x_1 \in [0, 8]$ and $x_2 \in [1.4, 1.62]$

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

$$\sqrt{2x - 9} - \sqrt{5x - 8} = 0$$

- A. All solutions lead to invalid or complex values in the equation.
- B. $x_1 \in [0.3, 2.6]$ and $x_2 \in [2.5, 10.5]$
- C. $x \in [-0.8, 1]$
- D. $x \in [-7.7, -4.9]$
- E. $x_1 \in [-0.8, 1]$ and $x_2 \in [2.5, 10.5]$

5. Choose the equation of the function graphed below.



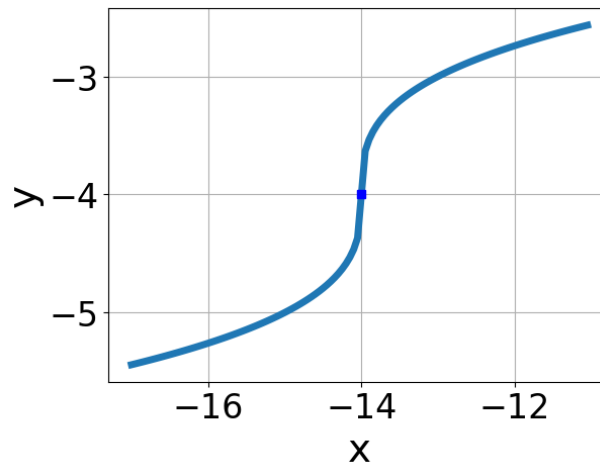
- A. $f(x) = \sqrt[3]{x+8} - 4$
- B. $f(x) = -\sqrt[3]{x+8} - 4$
- C. $f(x) = -\sqrt[3]{x-8} - 4$
- D. $f(x) = \sqrt[3]{x-8} - 4$
- E. None of the above

6. What is the domain of the function below?

$$f(x) = \sqrt[5]{6x+8}$$

- A. The domain is $(-\infty, a]$, where $a \in [-1.17, 0.24]$
- B. $(-\infty, \infty)$
- C. The domain is $[a, \infty)$, where $a \in [-0.97, 1.14]$
- D. The domain is $[a, \infty)$, where $a \in [-2.01, -0.9]$
- E. The domain is $(-\infty, a]$, where $a \in [-3.24, -1.16]$

7. Choose the equation of the function graphed below.



- A. $f(x) = \sqrt[3]{x+14} - 4$
- B. $f(x) = \sqrt[3]{x-14} - 4$
- C. $f(x) = -\sqrt[3]{x+14} - 4$
- D. $f(x) = -\sqrt[3]{x-14} - 4$
- E. None of the above

8. What is the domain of the function below?

$$f(x) = \sqrt[3]{9x+8}$$

- A. The domain is $[a, \infty)$, where $a \in [-1.55, -1.07]$
- B. The domain is $(-\infty, a]$, where $a \in [-0.9, -0.87]$
- C. The domain is $[a, \infty)$, where $a \in [-0.97, 0.11]$
- D. The domain is $(-\infty, a]$, where $a \in [-1.16, -0.98]$
- E. $(-\infty, \infty)$

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

$$\sqrt{-45x^2 - 48} - \sqrt{94x} = 0$$

- A. $x \in [-0.91, -0.77]$

- B. $x_1 \in [-1.33, -1.16]$ and $x_2 \in [-2.89, 0.11]$
- C. $x_1 \in [0.54, 1.44]$ and $x_2 \in [-0.11, 6.89]$
- D. $x \in [-1.33, -1.16]$
- E. All solutions lead to invalid or complex values in the equation.

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

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

- A. $x \in [-0.22, 0.61]$
- B. $x \in [-8.71, -6.71]$
- C. $x_1 \in [0.82, 1.31]$ and $x_2 \in [-1.67, 3.33]$
- D. $x_1 \in [-0.22, 0.61]$ and $x_2 \in [-1.67, 3.33]$
- E. All solutions lead to invalid or complex values in the equation.