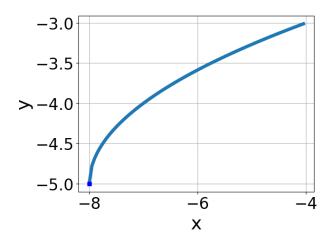
1. Choose the equation of the function graphed below.



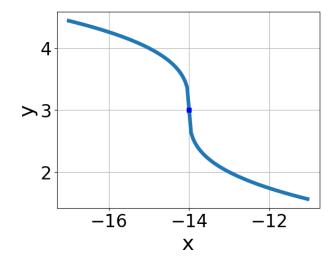
A.
$$f(x) = -\sqrt[3]{x+8} - 5$$

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

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

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

- E. None of the above
- 2. Choose the equation of the function graphed below.



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

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

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

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

- E. None of the above
- 3. What is the domain of the function below?

$$f(x) = \sqrt[5]{9x - 7}$$

- A. $(-\infty, \infty)$
- B. The domain is $[a, \infty)$, where $a \in [0.54, 1.21]$
- C. The domain is $(-\infty, a]$, where $a \in [0.99, 1.68]$
- D. The domain is $[a, \infty)$, where $a \in [0.92, 1.89]$
- E. The domain is $(-\infty, a]$, where $a \in [0.38, 0.83]$
- 4. What is the domain of the function below?

$$f(x) = \sqrt[3]{-5x + 7}$$

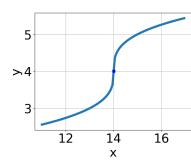
- A. The domain is $[a, \infty)$, where $a \in [-0.29, 0.86]$
- B. The domain is $(-\infty, a]$, where $a \in [0.45, 0.94]$
- C. $(-\infty, \infty)$
- D. The domain is $[a, \infty)$, where $a \in [1.24, 1.63]$
- E. The domain is $(-\infty, a]$, where $a \in [0.79, 1.94]$
- 5. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

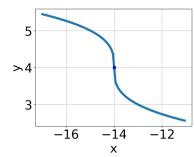
$$\sqrt{-7x+5} - \sqrt{7x+6} = 0$$

- A. $x \in [-0.41, 0.08]$
- B. $x_1 \in [-0.41, 0.08]$ and $x_2 \in [-2.29, 2.71]$

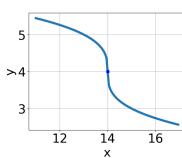
- C. $x \in [0.33, 1.32]$
- D. $x_1 \in [-0.88, -0.71]$ and $x_2 \in [-2.29, 2.71]$
- E. All solutions lead to invalid or complex values in the equation.
- 6. Choose the graph of the equation below.

$$f(x) = -\sqrt[3]{x+14} + 4$$



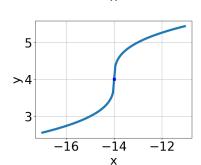






С.

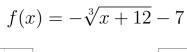
D.

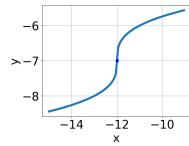


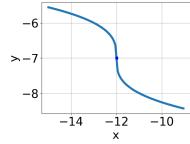
В.

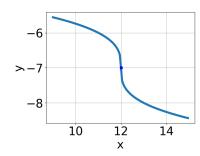
A.

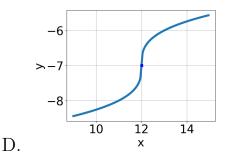
- E. None of the above.
- 7. Choose the graph of the equation below.











C.

L

E. None of the above.

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

$$\sqrt{-3x - 9} - \sqrt{-9x - 3} = 0$$

A. $x \in [0.76, 1.1]$

B. $x_1 \in [-4.14, -2.2]$ and $x_2 \in [-2, 0.6]$

C. $x \in [1.6, 3.24]$

D. $x_1 \in [-4.14, -2.2]$ and $x_2 \in [-0.2, 1.6]$

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.

$$\sqrt{24x^2 - 36} - \sqrt{5x} = 0$$

A. $x_1 \in [1, 1.27]$ and $x_2 \in [1.33, 5.33]$

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

C. $x_1 \in [-1.26, -1.08]$ and $x_2 \in [1.33, 5.33]$

D. $x \in [1.3, 1.36]$

E. $x \in [-1.26, -1.08]$

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

$$\sqrt{72x^2 + 12} - \sqrt{60x} = 0$$

A.
$$x_1 \in [-0.55, -0.29]$$
 and $x_2 \in [-0.42, 0.44]$

B.
$$x \in [0.32, 0.37]$$

C.
$$x_1 \in [0.32, 0.37]$$
 and $x_2 \in [0.35, 1.35]$

D.
$$x \in [0.49, 0.62]$$

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