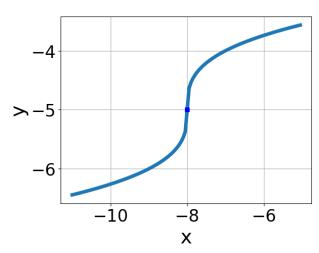
1. Choose the equation of the function graphed below.



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. What is the domain of the function below?

$$f(x) = \sqrt[6]{5x+3}$$

A.
$$(-\infty, a]$$
, where $a \in [-0.63, 1.12]$

B.
$$[a, \infty)$$
, where $a \in [-7.67, -0.67]$

C.
$$(-\infty, a]$$
, where $a \in [-2.04, -0.92]$

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

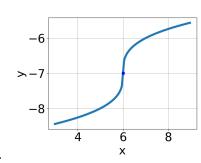
E.
$$[a, \infty)$$
, where $a \in [-1.6, 4.4]$

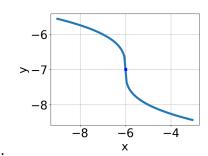
3. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

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

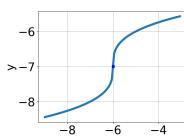
- A. $x \in [-1.01, -0.44]$
- B. All solutions lead to invalid or complex values in the equation.
- C. $x_1 \in [-1.01, -0.44]$ and $x_2 \in [-3.56, 2.44]$
- D. $x \in [-0.53, 0.42]$
- E. $x_1 \in [-1.6, -1.06]$ and $x_2 \in [-3.56, 2.44]$
- 4. Choose the graph of the equation below.

$$f(x) = \sqrt[3]{x+6} - 7$$



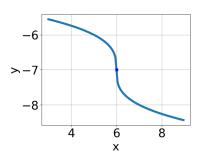






С.

D.



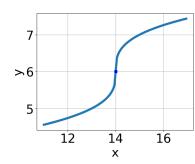
- В.
- E. None of the above.
- 5. What is the domain of the function below?

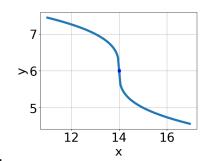
$$f(x) = \sqrt[5]{-6x + 7}$$

- A. The domain is $[a, \infty)$, where $a \in [-1.3, 0.9]$
- B. $(-\infty, \infty)$
- C. The domain is $(-\infty, a]$, where $a \in [1.04, 1.66]$

- D. The domain is $(-\infty, a]$, where $a \in [0.33, 1.07]$
- E. The domain is $[a, \infty)$, where $a \in [1.1, 1.7]$
- 6. Choose the graph of the equation below.

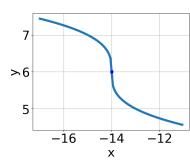
$$f(x) = \sqrt[3]{x + 14} + 6$$



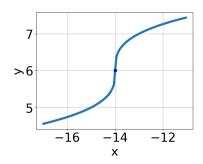


A.

В.



C.



- D.
- E. None of the above.
- 7. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{36x^2 + 63} - \sqrt{99x} = 0$$

- A. $x_1 \in [0.45, 1.19]$ and $x_2 \in [1.75, 4.75]$
- B. $x_1 \in [-1.78, -1.14]$ and $x_2 \in [-4, 1]$
- C. $x \in [1.16, 1.94]$
- D. All solutions lead to invalid or complex values in the equation.
- E. $x \in [0.45, 1.19]$

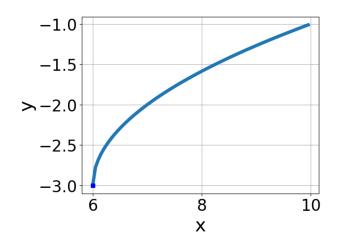
8. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{-24x^2 + 45} - \sqrt{-57x} = 0$$

- A. $x_1 \in [0, 1.7]$ and $x_2 \in [1, 5]$
- B. All solutions lead to invalid or complex values in the equation.
- C. $x_1 \in [-1.5, -0.5]$ and $x_2 \in [1, 5]$
- D. $x \in [2.3, 3.4]$
- E. $x \in [-1.5, -0.5]$
- 9. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{5x-2} - \sqrt{-4x+6} = 0$$

- A. $x_1 \in [-0.11, 0.61]$ and $x_2 \in [0.45, 1.22]$
- B. $x \in [0.73, 1.17]$
- C. $x_1 \in [-0.11, 0.61]$ and $x_2 \in [1.09, 1.53]$
- D. $x \in [-0.82, -0.25]$
- E. All solutions lead to invalid or complex values in the equation.
- 10. Choose the equation of the function graphed below.



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

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

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

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

E. None of the above