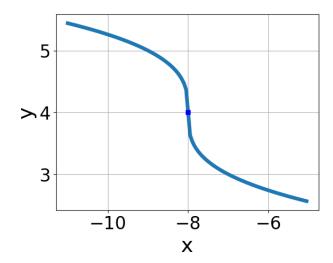
1. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{-49x^2 + 15} - \sqrt{-14x} = 0$$

- A. All solutions lead to invalid or complex values in the equation.
- B. $x_1 \in [-0.27, 0.45]$ and $x_2 \in [-1.29, 1.71]$
- C. $x_1 \in [-1.17, -0.03]$ and $x_2 \in [-1.29, 1.71]$
- D. $x \in [0.67, 1.33]$
- E. $x \in [-1.17, -0.03]$
- 2. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{-7x - 5} - \sqrt{5x + 2} = 0$$

- A. All solutions lead to invalid or complex values in the equation.
- B. $x_1 \in [-0.85, -0.66]$ and $x_2 \in [-1.01, -0.46]$
- C. $x \in [-0.45, -0.18]$
- D. $x_1 \in [-0.85, -0.66]$ and $x_2 \in [-0.41, 1.37]$
- E. $x \in [-0.68, -0.27]$
- 3. Choose the equation of the function graphed below.



A.
$$f(x) = -\sqrt{x-8} + 4$$

B.
$$f(x) = -\sqrt{x+8} + 4$$

C.
$$f(x) = \sqrt{x-8} + 4$$

D.
$$f(x) = \sqrt{x+8} + 4$$

E. None of the above

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

$$\sqrt{-21x^2 - 42} - \sqrt{-67x} = 0$$

A. $x \in [2.06, 2.43]$

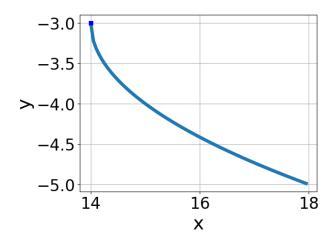
B. All solutions lead to invalid or complex values in the equation.

C. $x \in [0.6, 1.44]$

D. $x_1 \in [0.6, 1.44]$ and $x_2 \in [2.33, 3.33]$

E. $x_1 \in [-1.01, -0.35]$ and $x_2 \in [-4.33, 1.67]$

5. Choose the equation of the function graphed below.



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

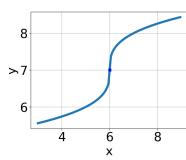
B.
$$f(x) = \sqrt{x - 14} - 3$$

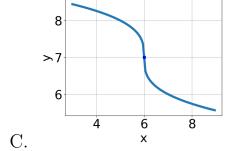
C.
$$f(x) = -\sqrt{x - 14} - 3$$

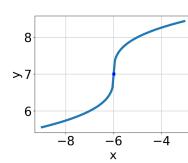
D.
$$f(x) = \sqrt{x+14} - 3$$

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

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

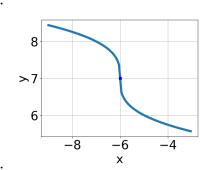






A.

В.

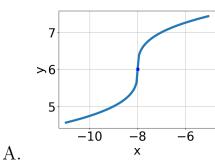


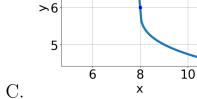
- E. None of the above.
- 7. What is the domain of the function below?

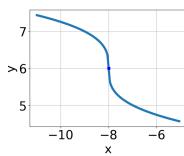
$$f(x) = \sqrt[3]{4x - 8}$$

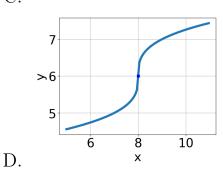
- A. The domain is $[a, \infty)$, where $a \in [-1.8, 1.3]$
- B. The domain is $(-\infty, a]$, where $a \in [0.22, 1.96]$
- C. The domain is $[a, \infty)$, where $a \in [0.6, 2.5]$
- D. $(-\infty, \infty)$
- E. The domain is $(-\infty, a]$, where $a \in [0.84, 2.71]$
- 8. Choose the graph of the equation below.

$$f(x) = -\sqrt[3]{x - 8} + 6$$









E. None of the above.

В.

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

$$\sqrt{9x - 7} - \sqrt{4x + 2} = 0$$

- A. All solutions lead to invalid or complex values in the equation.
- B. $x_1 \in [0.75, 0.84]$ and $x_2 \in [1.5, 2.5]$
- C. $x_1 \in [-0.71, -0.38]$ and $x_2 \in [-0.6, 1.6]$
- D. $x \in [1, 1.13]$
- E. $x \in [1.77, 1.87]$
- 10. What is the domain of the function below?

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

- A. The domain is $(-\infty, a]$, where $a \in [1.22, 2.13]$
- B. The domain is $[a, \infty)$, where $a \in [0.99, 2.22]$
- C. $(-\infty, \infty)$
- D. The domain is $(-\infty, a]$, where $a \in [0.58, 1.23]$
- E. The domain is $[a, \infty)$, where $a \in [0.56, 1.14]$