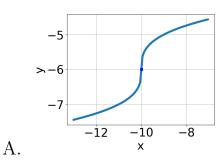
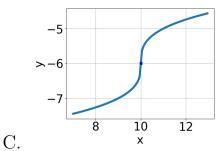
1. What is the domain of the function below?

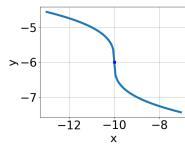
$$f(x) = \sqrt[6]{-9x - 7}$$

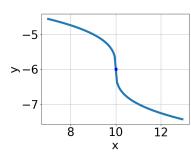
- A. $(-\infty, \infty)$
- B. $(-\infty, a]$, where $a \in [-1.62, -0.97]$
- C. $(-\infty, a]$, where $a \in [-0.93, -0.54]$
- D. $[a, \infty)$, where $a \in [-0.86, -0.7]$
- E. $[a, \infty)$, where $a \in [-1.62, -1.09]$
- 2. Choose the graph of the equation below.

$$f(x) = -\sqrt[3]{x+10} - 6$$









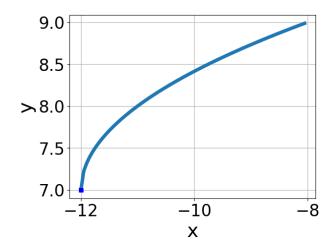
- E. None of the above.
- 3. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

D.

В.

$$\sqrt{-10x^2 - 35} - \sqrt{39x} = 0$$

- A. $x_1 \in [1.9, 3]$ and $x_2 \in [-0.2, 2.9]$
- B. $x \in [-2.32, -0.64]$
- C. All solutions lead to invalid or complex values in the equation.
- D. $x_1 \in [-2.57, -1.84]$ and $x_2 \in [-2, -0.2]$
- E. $x \in [-2.57, -1.84]$
- 4. Choose the equation of the function graphed below.



- A. $f(x) = \sqrt[3]{x 12} + 4$
- B. $f(x) = \sqrt[3]{x+12} + 4$
- C. $f(x) = -\sqrt[3]{x+12} + 4$
- D. $f(x) = -\sqrt[3]{x 12} + 4$
- E. None of the above
- 5. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{-8x+4} - \sqrt{-9x-5} = 0$$

- A. All solutions lead to invalid or complex values in the equation.
- B. $x \in [-9.4, -8.9]$
- C. $x \in [0.9, 3.1]$
- D. $x_1 \in [-0.9, -0.5]$ and $x_2 \in [-1, 3]$
- E. $x_1 \in [-9.4, -8.9]$ and $x_2 \in [-1, 3]$