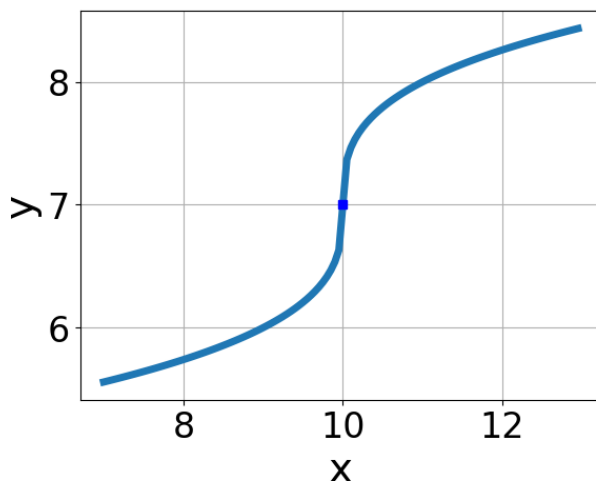


1. Choose the equation of the function graphed below.



- A.  $f(x) = \sqrt{x+8} + 6$
- B.  $f(x) = \sqrt{x-8} + 6$
- C.  $f(x) = -\sqrt{x+8} + 6$
- D.  $f(x) = -\sqrt{x-8} + 6$
- E. None of the above

- 
2. What is the domain of the function below?

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

- A. The domain is  $(-\infty, a]$ , where  $a \in [0.67, 3.1]$
- B. The domain is  $[a, \infty)$ , where  $a \in [0.3, 0.7]$
- C. The domain is  $[a, \infty)$ , where  $a \in [1.5, 3]$
- D.  $(-\infty, \infty)$
- E. The domain is  $(-\infty, a]$ , where  $a \in [-1.1, 0.86]$

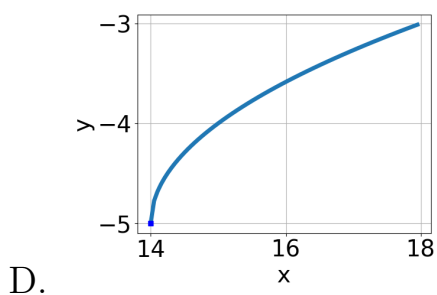
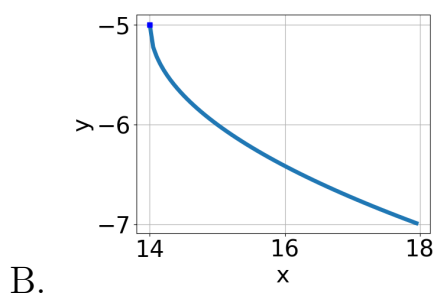
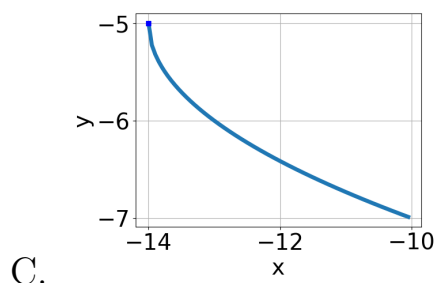
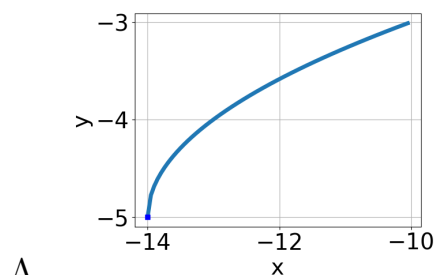
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3. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{5x+5} - \sqrt{7x-3} = 0$$

- A.  $x_1 \in [-3.5, 0.5]$  and  $x_2 \in [-3, 2]$
- B. All solutions lead to invalid or complex values in the equation.
- C.  $x_1 \in [-3.5, 0.5]$  and  $x_2 \in [3, 6]$
- D.  $x \in [3.7, 4.2]$
- E.  $x \in [0.5, 1.5]$

4. Choose the graph of the equation below.

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



E. None of the above.

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

$$\sqrt{-40x^2 + 56} - \sqrt{-29x} = 0$$

- A. All solutions lead to invalid or complex values in the equation.
  - B.  $x_1 \in [0.72, 1.05]$  and  $x_2 \in [0, 5]$
  - C.  $x \in [-1.21, -0.39]$
  - D.  $x_1 \in [-1.21, -0.39]$  and  $x_2 \in [0, 5]$
  - E.  $x \in [1.07, 1.68]$
-