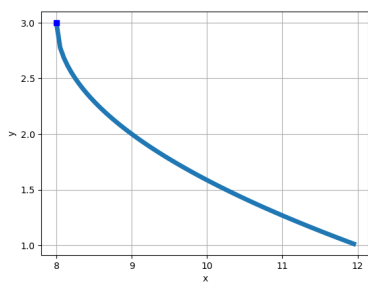


21. What is the domain of the function below?

$$f(x) = \sqrt[3]{-4x + 7}$$

- A. The domain is  $(-\infty, a]$ , where  $a \in [1.3, 3.8]$
- B. The domain is  $[a, \infty)$ , where  $a \in [0.01, 0.66]$
- C. The domain is  $[a, \infty)$ , where  $a \in [1.08, 1.81]$
- D. The domain is  $(-\infty, a]$ , where  $a \in [-0.3, 1.1]$
- E.  $(-\infty, \infty)$

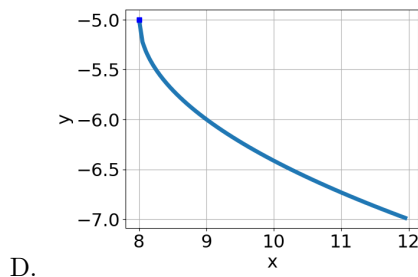
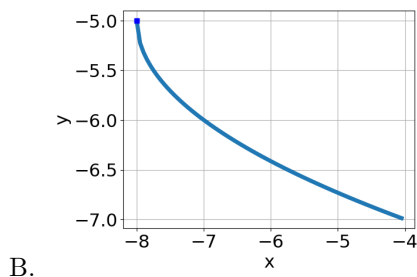
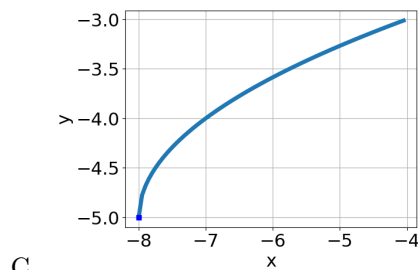
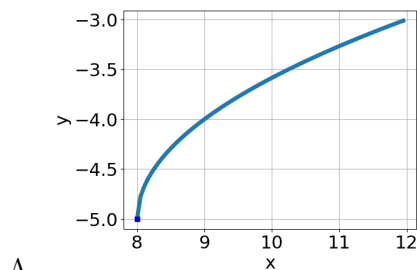
22. Choose the equation of the function graphed below.



- A.  $f(x) = -\sqrt{x-8} + 3$
- B.  $f(x) = \sqrt{x+8} + 3$
- C.  $f(x) = -\sqrt{x+8} + 3$
- D.  $f(x) = \sqrt{x-8} + 3$

23. Choose the graph of the equation below.

$$f(x) = -\sqrt{x-8} - 5$$



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

$$\sqrt{4x+3} - \sqrt{-4x-4} = 0$$

- A.  $x \in [-0.7, 1.4]$
  - B. All solutions lead to invalid or complex values in the equation.
  - C.  $x_1 \in [-1, 0.2]$  and  $x_2 \in [0.8, 2.5]$
  - D.  $x \in [-1, 0.2]$
  - E.  $x_1 \in [-1, 0.2]$  and  $x_2 \in [-2, 0.6]$
- 

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

$$\sqrt{36x^2 - 18} - \sqrt{73x} = 0$$

- A. All solutions lead to invalid or complex values in the equation.
  - B.  $x \in [-0.52, 0.11]$
  - C.  $x_1 \in [-0.52, 0.11]$  and  $x_2 \in [-2, 3]$
  - D.  $x \in [1.98, 2.43]$
  - E.  $x_1 \in [0.07, 0.26]$  and  $x_2 \in [-2, 3]$
-