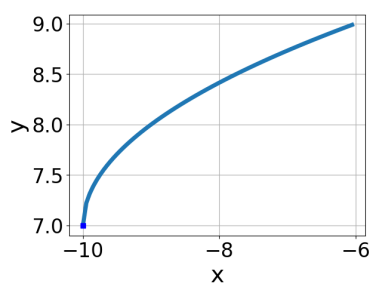21. Choose the equation of the function graphed below.

A. $f(x) = -\sqrt{x-10} + 7$

B. $f(x) = \sqrt{x+10} + 7$

C. $f(x) = \sqrt{x-10} + 7$

D. $f(x) = -\sqrt{x+10} + 7$

E. None of the above

22. What is the domain of the function below?

$$f(x) = \sqrt[7]{8x-3}$$

A. The domain is $[a, \infty)$, where $a \in [-0.63, 0.79]$

B. The domain is $(-\infty, a]$, where $a \in [-1.9, 1.2]$

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

D. The domain is $(-\infty, a]$, where $a \in [1.4, 2.8]$

E. The domain is $[a, \infty)$, where $a \in [2.04, 3.44]$

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

$$\sqrt{-9x-3} - \sqrt{-7x-7} = 0$$

A. All solutions lead to invalid or complex values in the equation.
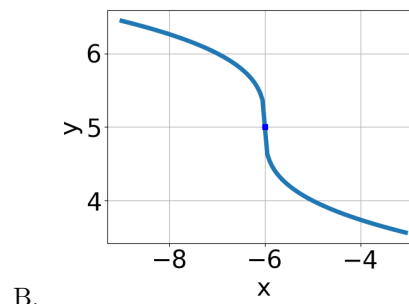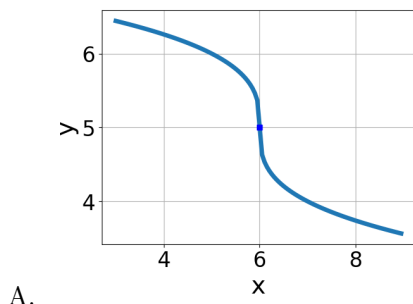
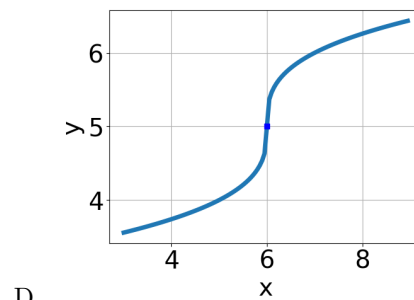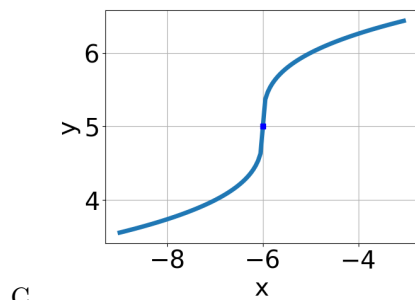B. $x \in [1.1, 2.5]$

C. $x \in [-6.5, -3.8]$

D. $x_1 \in [-0.8, -0.1]$ and $x_2 \in [0, 9]$

E. $x_1 \in [-1.1, -0.9]$ and $x_2 \in [-6, 1]$

24. Choose the graph of the equation below.

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

A.

B.

C.

D.

E. None of the above.

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

$$\sqrt{63x^2 + 24} - \sqrt{-78x} = 0$$

A. $x_1 \in [0.42, 0.62]$ and $x_2 \in [0.32, 2.14]$

B. $x \in [-0.92, -0.66]$

C. $x \in [-0.65, -0.53]$

D. $x_1 \in [-0.92, -0.66]$ and $x_2 \in [-0.62, -0.31]$

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