21. What is the domain of the function below?

$$f(x) = \sqrt[4]{8x+5}$$

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

B. $(-\infty, a]$, where $a \in [-2.88, -0.74]$

C. $[a, \infty)$, where $a \in [-0.9, 0.7]$

D. $[a, \infty)$, where $a \in [-2.6, -0.9]$

E. $(-\infty, a]$, where $a \in [-1.54, 0.97]$

---

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

$$\sqrt{7x-9} - \sqrt{2x-5} = 0$$

A. $x \in [2.15, 3.86]$

B. $x \in [-0.83, 1.08]$

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

D. $x_1 \in [0.98, 1.33]$ and $x_2 \in [2.3, 4.3]$

E. $x_1 \in [-0.83, 1.08]$ and $x_2 \in [-0.1, 1.4]$

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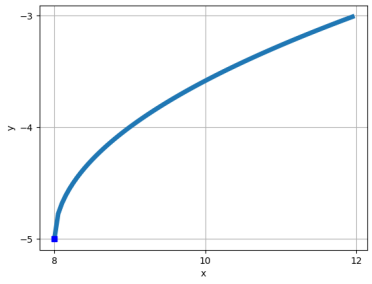
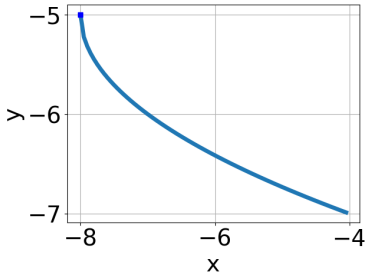
23. Choose the graph of the equation below.

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

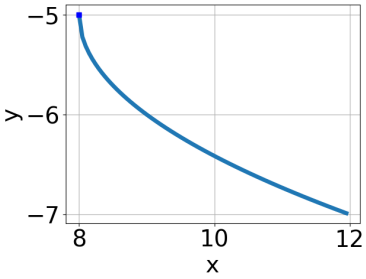
A.



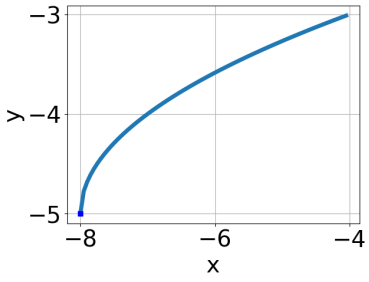

C.




B.




D.




E. None of the above.

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

$$\sqrt{-56x^2 - 18} - \sqrt{-69x} = 0$$

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

B. $x_1 \in [-0.71, -0.07]$ and $x_2 \in [-2.9, 0.2]$

C. $x_1 \in [0.15, 0.61]$ and $x_2 \in [-0.7, 0.9]$

D. $x \in [0.15, 0.61]$

E. $x \in [0.58, 1.25]$

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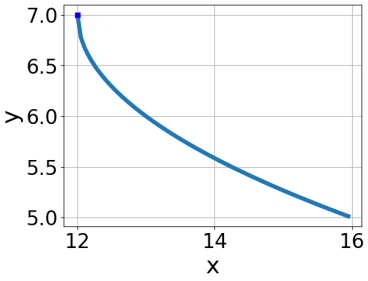
25. Choose the equation of the function graphed below.




A. $f(x) = \sqrt{x + 12} + 7$

B. $f(x) = -\sqrt{x - 12} + 7$

C. $f(x) = \sqrt{x - 12} + 7$

D. $f(x) = -\sqrt{x + 12} + 7$

E. None of the above

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