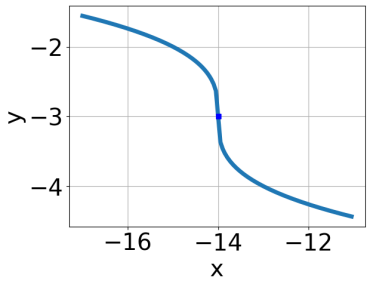
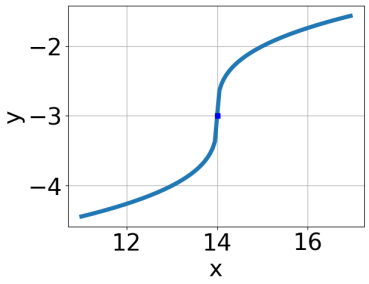
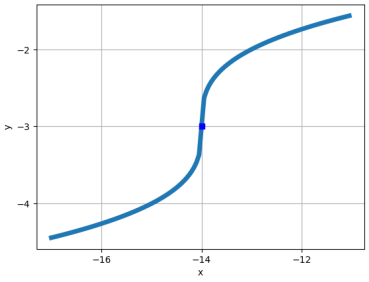
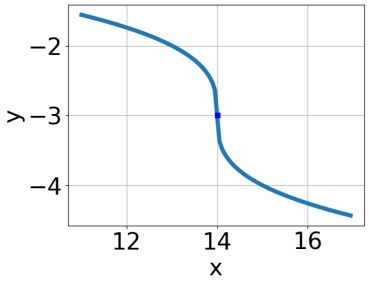
21. Choose the graph of the equation below.

$$f(x) = \sqrt[3]{x+14} - 3$$

A. 

C. 

B. 

D. 

E. None of the above.

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

$$\sqrt{-9x+2} - \sqrt{4x+5} = 0$$

A. $x \in [-1.06, 0.27]$

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

C. $x_1 \in [-1.96, -0.54]$ and $x_2 \in [-4, 2]$

D. $x \in [0.03, 1.85]$

E. $x_1 \in [-1.06, 0.27]$ and $x_2 \in [-4, 2]$

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23. What is the domain of the function below?

$$f(x) = \sqrt[7]{9x+8}$$

A. The domain is $[a, \infty)$, where $a \in [-0.9, -0.31]$

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

C. The domain is $(-\infty, a]$, where $a \in [-1.07, -0.46]$

D. The domain is $[a, \infty)$, where $a \in [-1.7, -0.93]$

E. The domain is $(-\infty, a]$, where $a \in [-1.33, -0.91]$

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

$$\sqrt{-14x^2 - 24} - \sqrt{40x} = 0$$

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

B. $x \in [-3.51, -1.3]$

C. $x_1 \in [1.27, 2.42]$ and $x_2 \in [-0.1, 3.3]$

D. $x_1 \in [-3.51, -1.3]$ and $x_2 \in [-1.6, 0.7]$

E. $x \in [-0.99, -0.84]$

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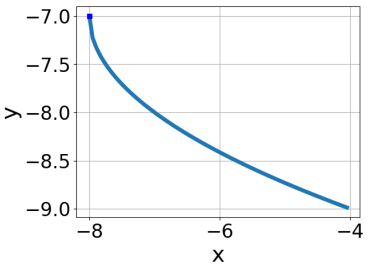
25. Choose the equation of the function graphed below.



A. $f(x) = -\sqrt{x - 8} - 7$

B. $f(x) = -\sqrt{x + 8} - 7$

C. $f(x) = \sqrt{x + 8} - 7$

D. $f(x) = \sqrt{x - 8} - 7$

E. None of the above
