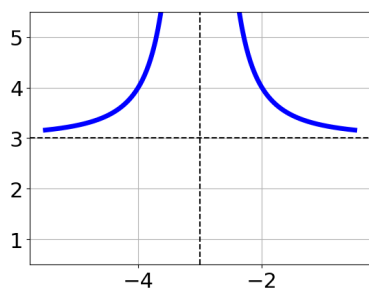


31. Solve the rational equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\frac{-7x}{7x-2} + \frac{-2x^2}{14x^2-53x+14} = \frac{6}{2x-7}$$

- A. All solutions lead to invalid or complex values in the equation.
- B. $x \in [0.34, 2.66]$
- C. $x_1 \in [-2.45, -0.22]$ and $x_2 \in [0.17, 0.66]$
- D. $x \in [1.22, 4.33]$
- E. $x_1 \in [-2.45, -0.22]$ and $x_2 \in [0.47, 1.42]$

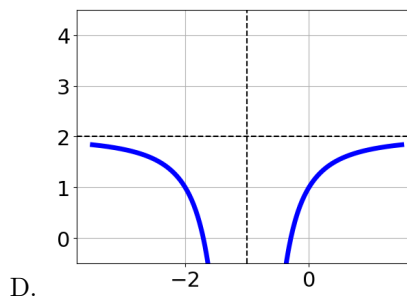
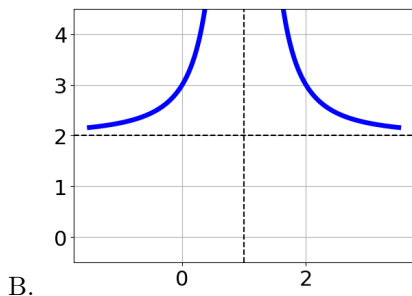
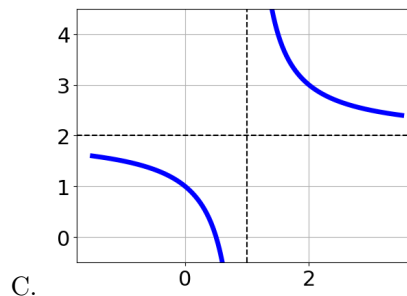
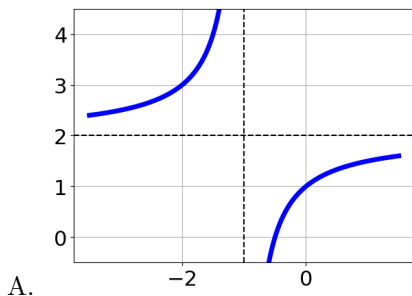
32. Choose the equation of the function graphed below.



- A. $f(x) = \frac{1}{(x-3)^2} - 1$
- B. $f(x) = \frac{-1}{x+3} - 1$
- C. $f(x) = \frac{-1}{(x+3)^2} - 1$
- D. $f(x) = \frac{1}{x-3} - 1$
- E. None of the above

33. Choose the graph of the equation below.

$$f(x) = \frac{-1}{(x+1)^2} + 2$$



E. None of the above.

34. Determine the domain of the function below.

$$f(x) = \frac{5}{16x^2 - 4x - 12}$$

- A. All Real numbers except $x = a$ and $x = b$, where $a \in [-2.3, 0.6]$ and $b \in [-0.7, 3.2]$
 - B. All Real numbers except $x = a$, where $a \in [-13.9, -11.8]$
 - C. All Real numbers except $x = a$, where $a \in [-2.3, 0.6]$
 - D. All Real numbers except $x = a$ and $x = b$, where $a \in [-13.9, -11.8]$ and $b \in [15.9, 17.2]$
 - E. All Real numbers.
-

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

$$\frac{70}{-28x - 70} + 1 = \frac{70}{-28x - 70}$$

- A. $x_1 \in [-4, -1]$ and $x_2 \in [-5, -1]$
 - B. All solutions lead to invalid or complex values in the equation.
 - C. $x \in [1, 4]$
 - D. $x \in [-3.5, -1.5]$
 - E. $x_1 \in [-4, -1]$ and $x_2 \in [1, 3]$
-