

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

$$\frac{-48}{-32x - 32} + 1 = \frac{-48}{-32x - 32}$$

- A. $x \in [-0.8, 2.8]$
- B. $x_1 \in [-1.5, 0.6]$ and $x_2 \in [0, 3]$
- C. $x_1 \in [-1.5, 0.6]$ and $x_2 \in [-6, 0]$
- D. All solutions lead to invalid or complex values in the equation.
- E. $x \in [-1.0, 0.0]$

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

$$\frac{-6x}{6x + 6} + \frac{-7x^2}{-36x^2 - 72x - 36} = \frac{-6}{-6x - 6}$$

- A. $x_1 \in [-2.23, -1.62]$ and $x_2 \in [-0.82, -0.6]$
- B. All solutions lead to invalid or complex values in the equation.
- C. $x \in [-0.96, -0.4]$
- D. $x_1 \in [-2.23, -1.62]$ and $x_2 \in [-1.06, -0.79]$
- E. $x \in [-1, -0.96]$

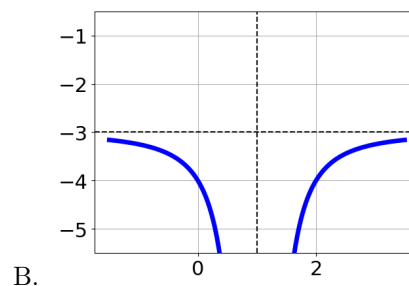
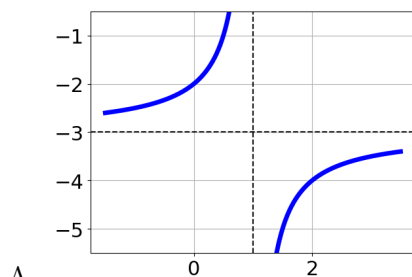
33. Determine the domain of the function below.

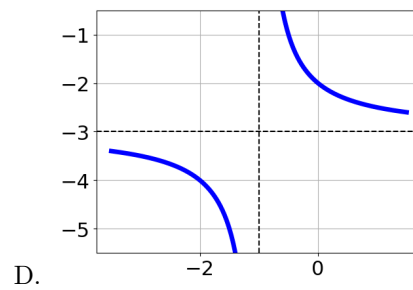
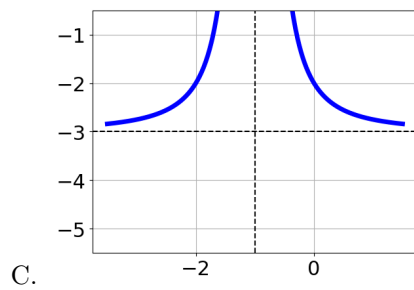
$$f(x) = \frac{4}{20x^2 - 4x - 24}$$

- A. All Real numbers.
- B. All Real numbers except $x = a$, where $a \in [-3, 0]$
- C. All Real numbers except $x = a$ and $x = b$, where $a \in [-21, -15]$ and $b \in [29, 34]$
- D. All Real numbers except $x = a$, where $a \in [-21, -15]$
- E. All Real numbers except $x = a$ and $x = b$, where $a \in [-3, 0]$ and $b \in [0, 2]$

34. Choose the graph of the equation below.

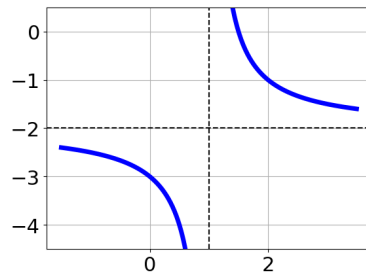
$$f(x) = \frac{-1}{(x-1)^2} - 3$$





E. None of the above.

35. Choose the equation of the function graphed below.



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

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

C. $f(x) = \frac{1}{x-1} - 2$

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

E. None of the above
