

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

$$\frac{81}{72x + 72} + 1 = \frac{81}{72x + 72}$$

- A. $x_1 \in [-1.3, 0.4]$ and $x_2 \in [0, 1.3]$
- B. $x_1 \in [-1.3, 0.4]$ and $x_2 \in [-2.2, -0.6]$
- C. All solutions lead to invalid or complex values in the equation.
- D. $x \in [-1.0, 1.0]$
- E. $x \in [0, 1.9]$

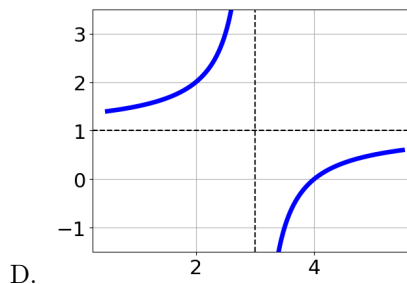
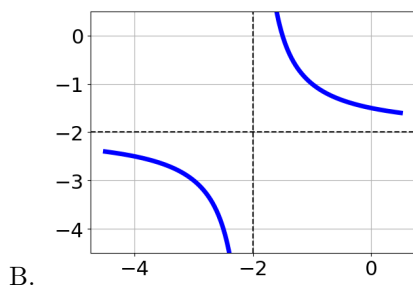
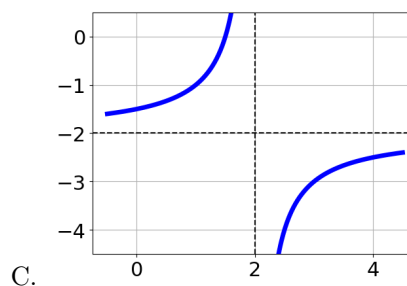
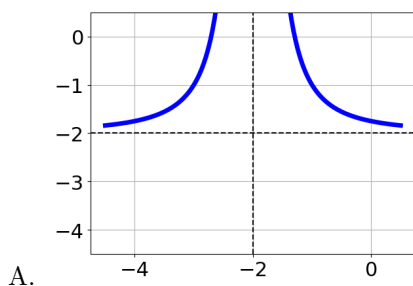
32. Determine the domain of the function below.

$$f(x) = \frac{6}{36x^2 + 54x + 20}$$

- A. All Real numbers except $x = a$ and $x = b$, where $a \in [-0.84, -0.73]$ and $b \in [-0.77, -0.66]$
- B. All Real numbers except $x = a$, where $a \in [-30.09, -29.87]$
- C. All Real numbers.
- D. All Real numbers except $x = a$ and $x = b$, where $a \in [-30.09, -29.87]$ and $b \in [-24.03, -23.94]$
- E. All Real numbers except $x = a$, where $a \in [-0.84, -0.73]$

33. Choose the graph of the equation below.

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



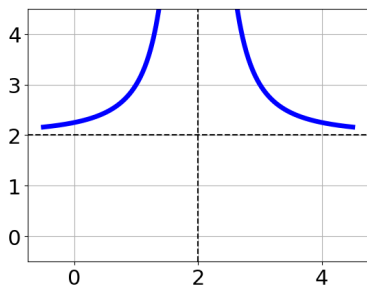
E. None of the above.

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

$$\frac{-3x}{2x+2} + \frac{-3x^2}{-4x^2+10x+14} = \frac{3}{-2x+7}$$

- A. All solutions lead to invalid or complex values in the equation.
- B. $x_1 \in [-0.4, 3.2]$ and $x_2 \in [5, 15]$
- C. $x \in [8.7, 11.8]$
- D. $x_1 \in [-0.4, 3.2]$ and $x_2 \in [-3, 1]$
- E. $x \in [3.3, 7.4]$

35. Choose the equation of the function graphed below.



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