31. Determine the domain of the function below.

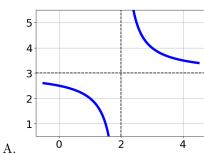
$$f(x) = \frac{4}{16x^2 - 44x + 30}$$

- A. All Real numbers except x = a and x = b, where $a \in [1.25, 1.35]$ and $b \in [1.33, 1.76]$
- B. All Real numbers except x = a, where $a \in [19.96, 20.17]$
- C. All Real numbers except x = a and x = b, where $a \in [19.96, 20.17]$ and $b \in [23.96, 24.12]$
- D. All Real numbers.
- E. All Real numbers except x = a, where $a \in [1.25, 1.35]$
- 32. Solve the rational equation below. Then, choose the interval(s) that the solution(s) belongs to.

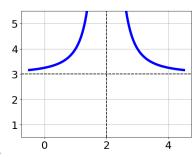
$$\frac{27}{27x - 63} + 1 = \frac{27}{27x - 63}$$

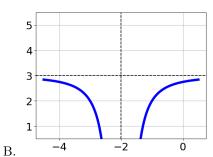
- A. All solutions lead to invalid or complex values in the equation.
- B. $x_1 \in [-5, -1]$ and $x_2 \in [-1, 4]$
- C. $x \in [2.33, 4.33]$
- D. $x_1 \in [-1, 3]$ and $x_2 \in [-1, 4]$
- E. $x \in [-5, -1]$
- 33. Choose the graph of the equation below.

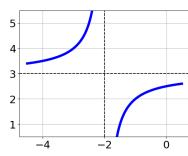
$$f(x) = \frac{-1}{(x+2)^2} + 3$$











E. None of the above.

D.

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

$$\frac{-5x}{7x+4} + \frac{-4x^2}{-14x^2 + 6x + 8} = \frac{6}{-2x+2}$$

A.
$$x \in [-1.9, -0.2]$$

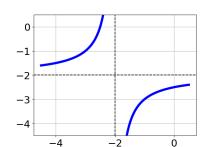
B.
$$x_1 \in [7, 10.5]$$
 and $x_2 \in [-0.45, -0.4]$

C.
$$x \in [0.7, 5.1]$$

D.
$$x_1 \in [7, 10.5]$$
 and $x_2 \in [-0.72, -0.51]$

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

35. Choose the equation of the function graphed below.



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

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

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

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

E. None of the above