31. Determine the domain of the function below.

$$f(x) = \frac{3}{24x^2 + 40x + 16}$$

- A. All Real numbers.
- B. All Real numbers except x=a and x=b, where $a\in[-24.24,-23.84]$ and $b\in[-16.09,-15.88]$
- C. All Real numbers except x = a, where $a \in [-0.71, -0.63]$
- D. All Real numbers except x=a and x=b, where $a\in[-0.71,-0.63]$ and $b\in[-1.19,-0.78]$
- E. All Real numbers except x = a, where $a \in [-24.24, -23.84]$
- 32. Solve the rational equation below. Then, choose the interval(s) that the solution(s) belongs to.

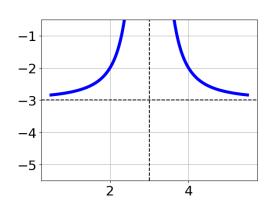
$$-5 - \frac{9}{2x - 5} = \frac{8}{4x - 10}$$

- A. $x \in [-3.92, -3.31]$
- B. $x_1 \in [-3.92, -3.31]$ and $x_2 \in [0, 3]$
- C. $x_1 \in [0.74, 1.09]$ and $x_2 \in [0, 3]$
- D. All solutions lead to invalid or complex values in the equation.
- E. $x \in [0.82, 1.24]$
- 33. Solve the rational equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\frac{5x}{-3x+3} - \frac{5x^2}{-21x^2 + 15x + 6} = -\frac{5}{7x+2}$$

- A. $x_1 \in [-0.9, 3.7]$ and $x_2 \in [-2, 4]$
- B. $x_1 \in [-1.2, 0.8]$ and $x_2 \in [-2, 4]$
- C. $x \in [-1.2, 0.8]$
- D. All solutions lead to invalid or complex values in the equation.
- E. $x \in [-0.9, 3.7]$

34. Choose the equation of the function graphed below.



A.
$$f(x) = \frac{-1}{x+3} - 3$$

B.
$$f(x) = \frac{1}{x-3} - 3$$

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

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

35. Choose the graph of the equation below.

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

D.

