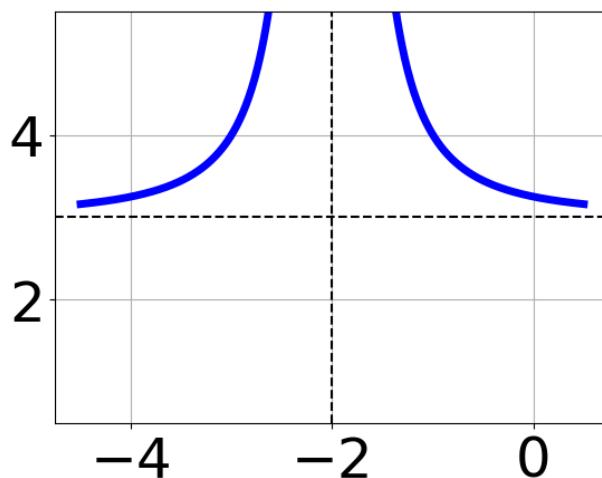


1. Solve the rational equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\frac{-2x}{4x-4} + \frac{-5x^2}{-28x^2 + 44x - 16} = \frac{-4}{-7x+4}$$

- A. $x \in [0.32, 0.75]$
B. $x \in [-2.27, -1.15]$
C. $x_1 \in [0.73, 1.4]$ and $x_2 \in [-0.3, 1.5]$
D. All solutions lead to invalid or complex values in the equation.
E. $x_1 \in [0.73, 1.4]$ and $x_2 \in [-2.8, -0.6]$
-

2. Choose the equation of the function graphed below.



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

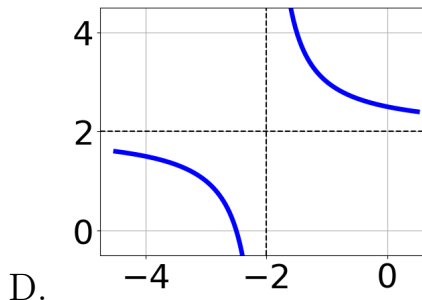
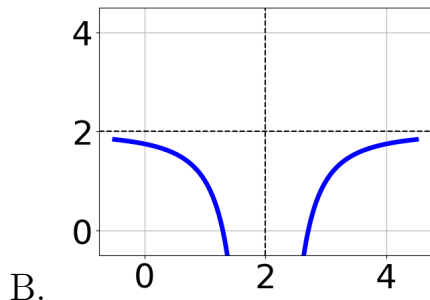
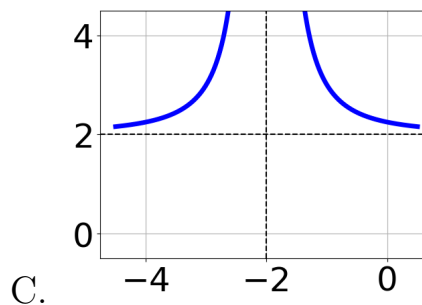
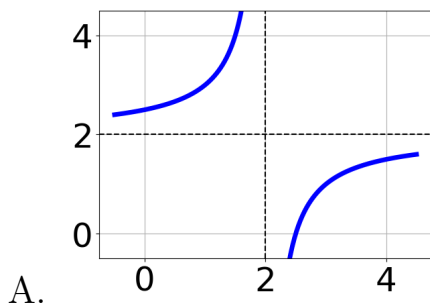
3. Solve the rational equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\frac{66}{-99x - 33} + 1 = \frac{66}{-99x - 33}$$

- A. $x \in [0.1, 1.2]$
B. $x_1 \in [-0.6, 0.3]$ and $x_2 \in [-2, 0]$
C. $x_1 \in [-0.6, 0.3]$ and $x_2 \in [0, 3]$
D. $x \in [-0.33, 1.67]$
E. All solutions lead to invalid or complex values in the equation.

4. Choose the graph of the equation below.

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



- E. None of the above.

5. Determine the domain of the function below.

$$f(x) = \frac{6}{15x^2 - 39x + 18}$$

- A. All Real numbers except $x = a$, where $a \in [14.1, 15.7]$
 - B. All Real numbers except $x = a$ and $x = b$, where $a \in [14.1, 15.7]$ and $b \in [16.8, 20.5]$
 - C. All Real numbers.
 - D. All Real numbers except $x = a$ and $x = b$, where $a \in [-0.8, 1.2]$ and $b \in [1.6, 2.5]$
 - E. All Real numbers except $x = a$, where $a \in [-0.8, 1.2]$
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