

1. Solve the rational equation below.

$$\frac{-4x}{-2x+7} + \frac{-3x^2}{-14x^2+35x+49} = \frac{3}{7x+7}$$

2. Determine the domain of the function below.

$$f(x) = \frac{4}{25x^2 - 5x - 12}$$

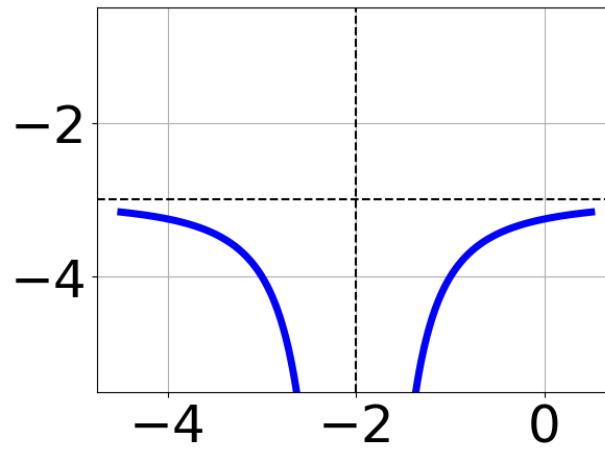
3. Solve the rational equation below.

$$\frac{3}{8x+7} + 5 = \frac{3}{-32x-28}$$

4. Solve the rational equation below.

$$\frac{-98}{-42x + 42} + 1 = \frac{-98}{-42x + 42}$$

5. Write an equation that can represent the function graphed below.



6. Sketch a graph that represents the equation below.

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

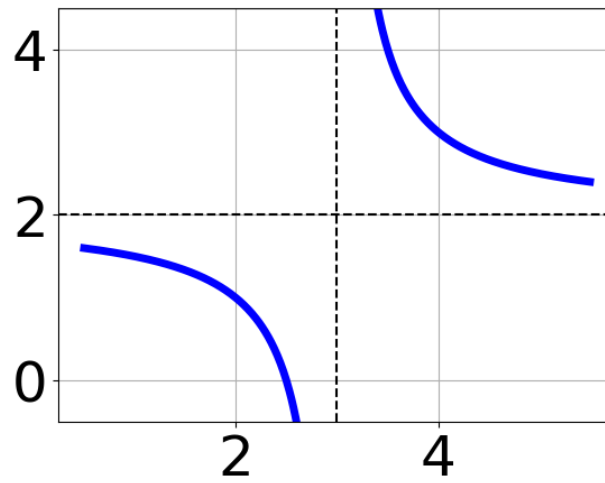
7. Determine the domain of the function below.

$$f(x) = \frac{4}{9x^2 - 27x + 20}$$

8. Solve the rational equation below.

$$\frac{-2x}{-6x+5} + \frac{-5x^2}{30x^2-43x+15} = \frac{-4}{-5x+3}$$

9. Write an equation that can represent the function graphed below.



10. Sketch a graph that represents the equation below.

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