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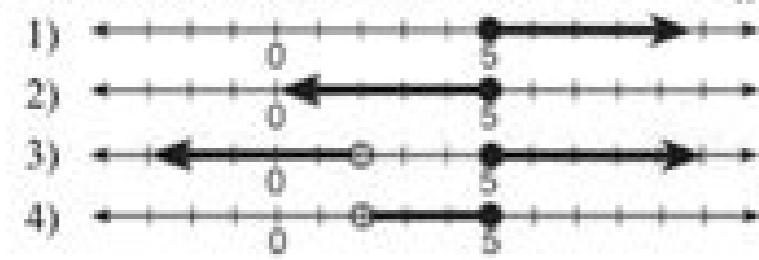


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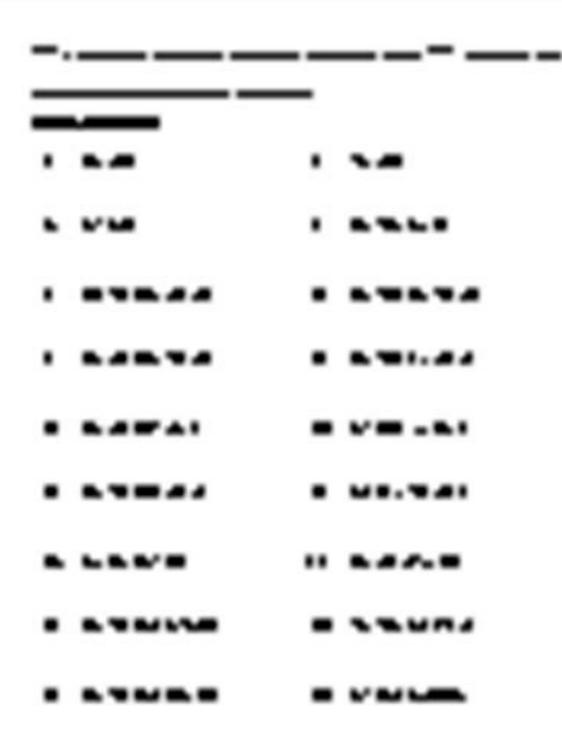
# Rational inequalities worksheet with answers

## A2.A.23: Rational Inequalities: Solve rational equations and inequalities

- 1 Which graph represents the solution set of  $\frac{x+16}{x-2} \leq 7$ ?



- 2 The cost ( $C$ ) of selling  $x$  calculators in a store is modeled by the equation  $C = \frac{3,200,000}{x} + 60,000$ . The store profit ( $P$ ) for these sales is modeled by the equation  $P = 500x$ . What is the minimum number of calculators that have to be sold for profit to be greater than cost?



③ 
$$\left( \frac{7x}{3x+3} - \frac{5}{4x+4} \right) \geq \frac{3x}{2x+2}$$

$\text{LCM: } 12(x+1)(x-1)$

$7x(4)(x-1) - 5(3)(x+1) \geq 3x(2)(x-1)$

$28x^2 - 28x - 15x - 15 \geq 18x^2 - 18x$

$10x^2 - 25x - 15 \geq 0$

$2x^2 - 5x - 3 \geq 0$

$(2x+1)(x-3) \geq 0$

$x = -\frac{1}{2}, x = 3$

$\text{Check: } \begin{cases} x = -\frac{1}{2} \\ x = 3 \end{cases}$

$\text{At } x = -\frac{1}{2}: \frac{21}{12} - \frac{5}{8} \stackrel{?}{=} \frac{9}{8}$

$1.125 \stackrel{?}{=} 1.125 \quad \checkmark$

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_

**LESSON**  
**B**  
**Solving Rational Equations and Inequalities**

**Practice B**

Solve each equation.

1.  $x - \frac{6}{x} = 5$

2.  $\frac{15}{4} = \frac{6}{x} + 3$

3.  $x = \frac{3}{x} + 2$

4.  $\frac{4}{x^2 - 4} = \frac{1}{x - 2}$

Solve each inequality by using a graphing calculator and a table.

5.  $\frac{6}{x+1} < -3$

6.  $\frac{x}{x-2} \geq 0$

## Solving One-Step Inequalities by Multiplying/Dividing

Solve each inequality and graph its solution.

$$1) -5x \geq 25$$

2)  $\frac{n}{4} \leq 3$

3)  $2n > 2$

4)  $\frac{R}{4} \leq -\frac{1}{4}$

5)  $-3x > 0$

$$6) \frac{m}{4} \leq -2$$

7)  $-3n > 15$

8)  $-3v > 45$

9)  $8x < 96$

$$10) \quad 10x \leq -10$$

$$11) \frac{b}{6} > -3$$

$$12) \frac{x}{5} \leq 3$$

11)  $\frac{b}{6} > -3$

12)  $\frac{x}{5} \leq 3$



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