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## Chapter 11: Rational and Irrational Expressions

### Solving Rational Inequalities

Solve.

$$1) \frac{x-4}{x-1} \geq 0$$

$$2) \frac{x+6}{x-5} \geq 0$$

$$3) \frac{x-8}{x-2} \leq 0$$

$$4) \frac{3x-1}{x-1} \geq 0$$

$$5) \frac{4x}{2x+2} < 0$$

$$6) \frac{5x-2}{x+3} \geq 0$$

$$7) \frac{x^2-9}{x+3} < 0$$

$$8) \frac{x^2}{2x-1} > 0$$

$$9) \frac{(x+3)(x+5)}{x+2} \geq 0$$

$$10) \frac{x+5}{x-4} \geq 0$$

$$11) \frac{(x-4)(x+6)}{x-3} < 0$$

$$12) \frac{x^2-2x}{x-2} \leq 4$$

$$13) \frac{x^2+5x}{x-3} < 0$$

$$14) \frac{2x-5}{x-3} \geq 0$$

$$15) \frac{3x+8}{x-2} \geq -2$$

$$16) \frac{x+49}{x-7} \geq 5$$

$$17) \frac{x+32}{x+4} \leq 3$$

$$18) \frac{3}{x+6} \leq -\frac{4}{x+7}$$

$$19) \frac{9}{x-3} \leq -\frac{12}{x-5}$$

$$20) \frac{7}{x+5} \geq -\frac{6}{x+4}$$

$$21) \frac{-x+5}{x+6} > -2$$

$$22) -\frac{5}{x+2} \leq -\frac{4}{x+6}$$

$$23) -\frac{15}{x-5} \leq -\frac{11}{x-6}$$

$$24) \frac{2}{2x-4} > \frac{6}{x-2}$$