

Unit 2: Solving Linear Inequalities

Definitions

$>$ *or* \geq

GREATER THAN *or*
GREATER THAN OR EQUAL TO


$<$ *or* \leq

LESS THAN *or*
LESS THAN OR EQUAL TO



How to Solve Inequalities

5 Step Plan

1. Simplify the BS (Both Sides)
 2. Move **variable terms** to one side by add. or sub.
 3. Move **constant terms** to one side by add. or sub.
 4. Multiply or divide the coefficient of variable term.
 - 5. Flip the sign if you multiplied or divided by a negative.**
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$$\text{Ex1: } 2x + 7 > -3$$

$$x > -5$$

Ex 2: $-\frac{x}{4} + 2 < 6$

$x > 16$

Challenge Question

$$2(x + 4) - 2 \leq 4x + 5 - x$$

$$x \geq 1$$
