(13)
$$\frac{1}{4}x - \frac{1}{2} > \frac{6x + 2}{-2x}$$
 $\frac{-1}{2} > \frac{4x}{4}$
 $\frac{-3}{4} > \frac{4x}{4}$
 $\frac{-3}{4} > x$

CHAPTER 6 SECTION 2B

Solving Inequalities- variable on both sides

Inequality symbols

Used to compare 2 non-equal values

Symbol

<</p>

□ >

□ ≤

□ ≥

Read as

" is less than"

" is greater than"

" is less than or equal to"

" is greater than or equal to"

Solving Inequalities

- Steps for solving:
 - Get the variable on the same side of the inequality sign
 - Perform opposite operation to solve for the variable
 - If you multiply or divide by a negative number, you must FLIP the inequality sign
 - Graph the solution on a number line

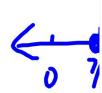
Examples:

$$\begin{array}{c|c} 1.4x + 2 > 3x - 8 \\ -3x & -3x \\ \times +12 > -8 \\ -10 & \times \end{array}$$

Examples:

$$3. -2x + 2 \le 8x - 4$$

$$-4. -3x - 3 \ge -9x + 4$$



Examples

Class Work

□ Pg 343 # 30-35

Homework

□ Pg 343 # 15-29