

Section A.3: Solving and Graphing Compound Inequalities

Homework: _____

“and”

$$x > -2 \text{ and } x < 3$$

$$-5 \leq x \leq 1$$

No Solution: When _____ don't overlap

“or”

$$x > 2 \text{ or } x \leq -1$$

$$x \leq -2 \text{ or } x > 0$$

Infinite Solutions: When _____ face each other

Problems for left

Solve and graph

1. $5x + 6 > -4$ and $2x - 3 \leq 5$

2. $-6 \leq 3x + 9 < 15$

3. $2x + 6 > 10$ or $-5x + 6 > 26$

4. $2x + 6 > -2$ or $5 - 3x < -1$