1.6 Compound Inequalities
Absolute Value Inequalities

Compound Inequality: 2 inequalities joined by *and* or *or*. To solve a compound inequality, you must solve each part of it.

and: the intersection of the solution sets

Ex: $10y \leq 3y - 2 < 19$

or: the union of the solution sets

Ex: $x + 3 < 2 \quad or \quad -x \leq -4$

Absolute Value Inequality *and*

< means *and*

Ex: $|g + 4| \leq 9$

Absolute Value Inequality *or*

$>$ means *or*

Ex: $|2x - 2| \geq 4$

Ex: $|w| > -2$

Solve: $x + 3 < 2$ or $-x \leq -4$