A compound inequality is an inequality formed by joining two inequalities with the word "and" or the word "or."

The graph of a compound inequality with "and" is the intersection of the graphs of the inequalities. The graph shows numbers that are solutions of both inequalities.


$$
y-3 \geq-11 \text { and } y-3 \leq-8
$$

## $-2 \leq x-3<4$

$$
6 \leq r+7<10
$$

The graph of a compound inequality with
"or" is the union of the graphs of the inequalities. The graph shows numbers that are solutions of either inequality.

$$
y \leq-2 \nprec \underset{i}{i}+\quad \mid \underset{1}{i}
$$

$$
y>1
$$

$$
a+1<4 \text { or } a-1 \geq 3
$$

## $x>2$ or $x \geq 0$

