

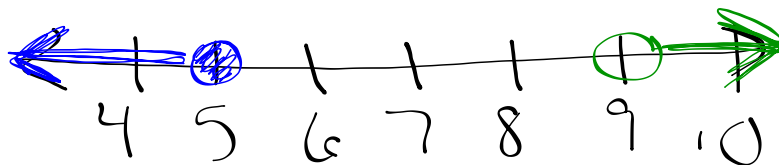
Compound "OR" Inequalities

Clear Learning Target

You will be able to graph and solve compound inequalities involving "or" relationships.

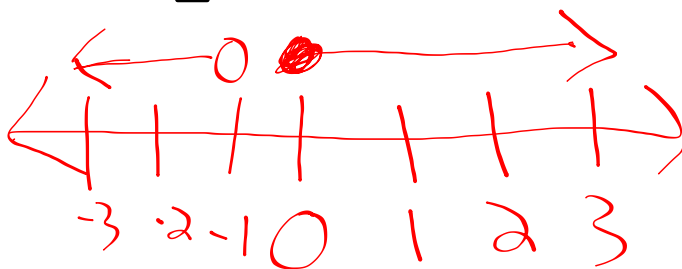
Example #1: Graph the inequality.

$$x > 9 \text{ or } x \leq 5$$

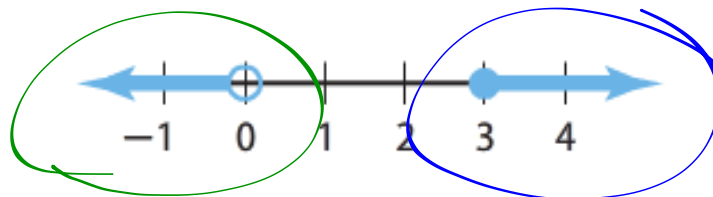


You Try! Graph the inequality.

$$x \geq 0 \text{ or } x < -1$$

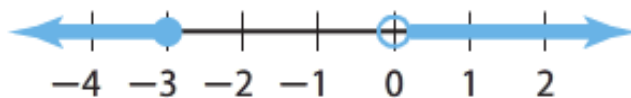


Example #2: Write a compound inequality for the graph.



$$x < 0 \text{ OR } x \geq 3$$

You Try! Write a compound inequality for the graph.



Example #3: Solve.

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

$\begin{array}{cc} -1 & -1 \\ \hline a < 3 \end{array}$ or $\begin{array}{cc} +1 & +1 \\ \hline a \geq 4 \end{array}$

$$a < 3 \text{ OR } a \geq 4$$

You Try! Solve.

$$\frac{2x \geq 18}{2} \text{ or } \frac{4x < 8}{4}$$

$x \geq 9 \text{ OR } x < 2$

