

## SECTION 2.6: SOLVING COMPOUND INEQUALITIES

Homework: \_\_\_\_\_

2g. Understanding of how to solve absolute value inequalities

Compound Inequalities: consists of \_\_\_\_\_ distinct inequalities joined by the word \_\_\_\_\_ or the word \_\_\_\_\_. To find the solutions of a compound inequality, you graph the inequalities on the same number line.

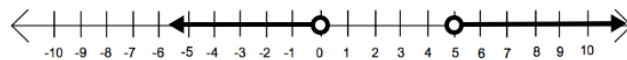
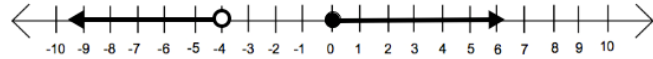
$$x < -2 \text{ or } x \geq 3$$



$$x \geq -3 \text{ and } x < 1 \rightarrow \underline{\hspace{2cm}}$$



Determine the compound inequality for each graph.



Solve and graph each compound inequality.

$$x - 4 < -10 \text{ or } -2x \leq -10$$

$$-4 \leq x - 3 < 5$$