SECTION 2.6: SOLVING COMPOUND INEQUALITIES

Homework: _____

    2g.   Understanding of how to solve absolute value inequalities

<u>Absolute Value Inequalities</u> – can have _____ **solutions. Absolute value inequalities $\nleq$ *or* $\nless$** _____

        Absolute Value Inequalities use the word _____ for _____

        Absolute Value Inequalities use the word _____ for _____

- Get the absolute value alone (do NOT distribute)
  - Plus or minus outside number
  - Divide if there is a number multiplying the absolute value
- Break the absolute value into its 2 equations and solve

$|x| > 7$ $|x| \le 3$ $|x| > -4$ $|x| \le -2$

Write and graph an absolute value inequality for each statement.

A number is more than 3 units from zero.   A number is less than 4 from two.