ALGEBRA 1 Name_____
3-7 PRACTICE WORKSHEET Date_____

For each statement, write a compound inequality and graph the solution.

1. Name the 3 steps for solving absolute value equations and inequalities:

    1.

    2.

    3.

Solve each absolute value *EQUATION*, and check your answers mentally.

2. $10 = |x| - 3$

3. $|m - 6| = 5$

4. $9 = 2|d| - 7$

5. $4|p + 1| + 2 = 14$

6. Determine if the absolute inequality represents an "AND" or "OR" statement.

a. $|x| > 5$

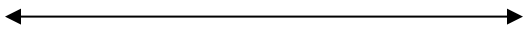
b. $|x| \geq 5$

c. $|x| \leq 5$

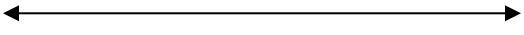
d. $|x| < 5$

Solve and graph each absolute value *INEQUALITY*. State "and" or "or" in the solution.

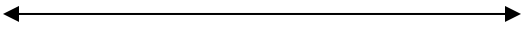
7. $|2x - 5| < 3$



8. $7\,|x + 2| - 1 \geq 27$



9. $-3\,|x + 5| + 4 < 1$



10. $-5\,|2x - 3| \geq 15$