

Solving Absolute Value Equations,
Inequalities, and Absolute Value Inequalities
Honors Algebra 2

1. Solve the following:

a. $9 = |x + 12|$

b. $|3x - 2| - 8 = 1$

2. Solve and graph the solution on a number line:

a. $-5(3x - 7) > 3(2x + 14)$

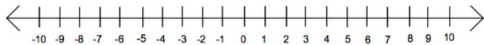
b. $-4x \leq \frac{5x+58}{6}$



3. Solve each inequality and graph the solution on a number line:

a. $8 < 2x - 4 < 16$

b. $4x + 3 < -6$ or
 $3x - 7 > 2$



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c. $|3x - 4| > 10$

d. $|-9x - 3| \leq 6$

