

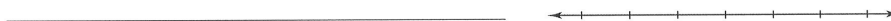


Practice Masters Level B

1.8 Solving Absolute-Value Equations and Inequalities

Solve each equation, and graph the solution on the number line.

1. $|2x + 1| = 9$



2. $|5 - 2m| = 7$



3. $|-t| = 3$



4. $|-x| = 0$



5. $|4x - 7| = 1$



Solve each inequality, and graph the solution on the number line.

6. $|3n + 2| > -2$



7. $|5x - 4| \leq 6$



8. $|1 - 2b| < 5$



9. $\frac{1}{2}|x - 6| - 2 < 2$



10. $\left| \frac{4x + 3}{-5} \right| \geq -3$



11. A spindle is designed with a specification of a 102-centimeter diameter. The spindle will work if it is within 0.025 centimeters of the specified length. Write an absolute-value inequality to represent the measurement tolerance for the diameter, d . _____