LESSON 5.7

NAME _____ DATE _____

Practice A

Complete the sentence using the word *and* or the word *or*.

1. $|x - 1| < 3$ means $x - 1 < 3$ __?__ $x - 1 > -3$.
2. $|x - 1| > 3$ means $x - 1 > 3$ __?__ $x - 1 < -3$.
3. $|x + 5| \leq 6$ means $x + 5 \leq 6$ __?__ $x + 5 \geq -6$.
4. $|x + 5| \geq 6$ means $x + 5 \geq 6$ __?__ $x + 5 \leq -6$.

Solve the inequality.

5. $|x + 1| < 6$
6. $|x + 4| > 7$
7. $|x - 2| \geq 10$
8. $|2x - 3| \leq 9$
9. $|3x + 6| > 15$
10. $|4x - 8| < 8$

Solve the inequality. Then graph the solution.

11. $|x + 5| \geq 3$
12. $|x + 3| < 17$
13. $|x - 7| \leq 4$
14. $|3x - 9| > 6$
15. $|2x + 8| < 10$
16. $|5x - 1| \geq 2$

17. **Body Temperature** The absolute value inequality $|T - 98.6| \leq 1.0$ describes the adult body temperature T (in degrees Fahrenheit) which doctors consider to be within the normal range.

    a. Is an adult body temperature of 99.5°F considered normal? an adult body temperature of 97.5°F?

    b. Solve the absolute value inequality to find the adult body temperatures T which are considered to be normal.