Worksheet 1.7   Name _____
Absolute Value Equations/Inequalities
Practice Problems

Decide whether the number is a solution of the equation or inequality.
1. $|5x - 4| = 6$; 2   2. $|3x + 4| = 8$; -4   3. $|5x - 4| > 6$; -3

Solution? yes or no   Solution? yes or no   Solution? yes or no

Rewrite the absolute value equation as two linear equations.
4. $|x + 2| = 7$ 5. $|3x - 4| = 8$ 6. $|1 - 4t| = 9$

Solve the equation.
5. $|x + 3| = 5$ 6. $|2x + 6| = 14$ 7. $|11 - 3x| = 2$

8. $|x + 2| = 7$ 9. $|4 - 5x| = 6$ 10. $|2x - 7| = 7$

Solve the inequality.
11. $|3x - 2| \leq 7$ 12. $|2x - 1| > 5$ 13. $|11 - 3x| < -4$