

**Worksheet 1.7**  
**Absolute Value Equations/Inequalities**  
**Practice Problems**

Name \_\_\_\_\_

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.  $|11 - 3x| < -4$