

**WORKSHEET 2-3**  
**MATH 107 – Intermediate Algebra**  
*Absolute Value Inequalities Worksheet*

Name \_\_\_\_\_

Section \_\_\_\_\_

*For each absolute value inequality, write the inequality without the absolute value by using the appropriate property. State whether the solution set will be a single interval or a union of two intervals. Solve the inequality and write your answer in interval notation.*

1.  $|x - 2| > 3$

7.  $|k - 3| > 1$

2.  $|2x + 3| \geq 5$

8.  $|2n + 1| \leq 9$

3.  $|5 - z| < 4$

9.  $|5 - 2r| \geq 7$

4.  $|3t - 5| \leq 2$

10.  $|q + 5| \leq 3$

5.  $|5 - 2x| \geq 7$

11.  $|2m + 4| < 8$

6.  $|3y + 4| < 4$

12.  $|p - 5| > 4$