**Assignment: Solving Absolute Value Inequalities Graphically**

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_

**Solve by graphing.**

![Description: Description: [image]]()![Description: Description: [image]]()![Description: Description: [image]]()1. $\left|x\right|-4\geq -2$ 2. $2\left|x\right|\leq 6$ 3. $\left|x+1\right|-4<2$

Solution:\_\_\_\_\_\_\_\_\_\_\_\_ Solution:\_\_\_\_\_\_\_\_\_\_\_\_ Solution:\_\_\_\_\_\_\_\_\_\_\_\_

![Description: Description: [image]]()![Description: Description: [image]]()![Description: Description: [image]]()4. $\left|x-3\right|-5>-1$ 5. $-2\left|x\right|-3\geq -7$ 6. $-\left|x-2\right|+5\leq 2$

Solution:\_\_\_\_\_\_\_\_\_\_\_\_ Solution:\_\_\_\_\_\_\_\_\_\_\_\_ Solution:\_\_\_\_\_\_\_\_\_\_\_\_

**Use the table to solve.**

7. $\left|x\right|+3\geq 4$ 8. $\left|3x\right|+2\leq 8$

![Description: [image]]()![Description: [image]]()

 Solution:\_\_\_\_\_\_\_\_\_\_\_\_ Solution:\_\_\_\_\_\_\_\_\_\_\_\_

**Review:**

Solve.

9. $3\left|x-1\right|+4=7$$\left|x+5\right|+3\leq 10$ 10. $3\left|x-1\right|+4\geq 7$$\left|x+5\right|+3=10$

11. $\left|2x-5\right|=5$ 12. $-4\left|x\right|+3=-5$