**Assignment: Solving Square Root Inequalities**

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

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

**Use transformations to solve each inequality.**

![Description: [image]]()![Description: [image]]()![Description: [image]]()1. $\sqrt{x+2}\geq 2$ 2. $\sqrt{x}+5\leq 7$ 3. $\sqrt{x+1}+3>5$

![Description: [image]]()![Description: [image]]()![Description: [image]]()4. $2\sqrt{x-3}\leq 4$ 5. $3\sqrt{x+4}-3>3$ 6. $-\sqrt{x}+5>3$

**Review:** Solve. Show Work!

7. $\sqrt{x+3}=2$ 8. $\sqrt{3x-6}=3$ 9. $\sqrt{2x+1}=3$

10. $-2\sqrt{x}+5=1$ 11. $\sqrt{4x-8}=6$ 12. $3\sqrt{x+5}-6=0$