**Assignment: Review Equations and Inequalities**

**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Pd.\_\_\_\_\_\_\_**

**Calculator**

**Solve.**

1. $8\left|x\right|=32$ 2. $-2\left|x+3\right|+1=6$ 3. $ 11\left|x-9\right|=121$

4. $5\left|2x-3\right|-6=29$

**Solve algebraically and graph using a number line.**

5. $\left|2x\right|\leq -5$ 6. $-7\left|x-10\right|>-49$ 7. $4\left|x-1\right|+8\geq 12$

8. $\left|x+15\right|\leq 37$ 9. $-2\left|x+3\right|>6$

**Graph. No Calculator**

![Description: [image]]()![Description: [image]]()10. $f\left(x\right)=3\left|x\right|-6$ 11. $f\left(x\right)=-\left|x+1\right|+4$

Vertex

Domain

Range

Max/Min

x-intercept

y-intercept

Vertex

Domain

Range

Max/Min

x-intercept

y-intercept

What are the solutions of the What are the solutions of the

equation $3=3\left|x\right|-6$? equation $2\geq -\left|x+1\right|+4$?

**Write the equation of the functions graphed below.**

14. 15.

