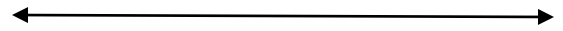<u>DIRECTIONS</u>: Solve the following inequalities and graph the solution sets.

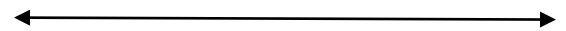**1.** $-12 > 4y$ $y < -3$

2. $-\frac{3}{4}x < -6$ $x > 8$

3. $1 + 2x \le 2(x - 1)$ No solution

4. $5(2x + 3) > 2(x - 3) + x$ $x > -3$

5. $3(x - 2) - 2 < x - 5$ $x < \frac{3}{2}$

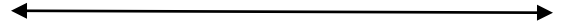**6.** $5(x - 7) + 2(1 - x) > 3(x - 11)$ No solution

7. $4x + 3(2 - 3x) \le 5(2 - x)$ All real numbers

8. $7x - 2(x - 4) \geq 6 - (2 - x)$ $x \geq -1$

9. $4(2 - x) - 3(1 + x) < 5(1 - x)$ $x > 0$

10. $x - 3(2 - 4x) \leq 7 - (8x - 9 + x)$ $x \leq 1$

11. $\frac{2}{3}x - (2 - 3x) < 5x + 2(1 - x)$ $x < 6$

12. $4(x + 2) - 9x > x - 3(2x + 1) - 1$ All real numbers

13. $4[5x - (3x - 7)] \leq 2(4x - 5)$ No solution

14. $2 - x \leq 4 + x$ $x \geq -1$