

**PROBLEM SET 1-4**  
(Solving Inequalities)

**Solve each inequality. Graph the solution.**

1.  $-12 \geq 24x$

2.  $8a - 15 > 73$

3.  $-18 - 5y \geq 52$

4.  $4(x + 3) \leq 44$

5.  $4(n - 2) - 6 > 18$

6.  $6x - 13 < 6(x - 2)$

7.  $7(3x - 7) + 21x \geq 50$

**Solve each compound inequality. Graph the solution.**

8.  $2x > -10$  and  $9x < 18$

9.  $3x \geq -12$  and  $8x \leq 16$

10.  $4x < 16$  or  $12x > 144$

11.  $3x \geq 3$  or  $9x < 54$

12.  $11 < 3y + 2 < 20$

13.  $36 \geq 1 - 5z > -21$

14.  $6b + 3 < 15$  or  $4b - 2 > 18$

15.  $8d < -64$  and  $5d > 25$

16.  $15x > 30$  and  $18x < -36$