

## Solving Inequalities

Name: \_\_\_\_\_

Period: \_\_\_\_\_

**Directions:** Solve each compound inequality, write the answer in set and interval notation, and then graph the solutions. **Show all work.**

1.  $2k + 2 > 12$

2.  $\frac{t}{4} - 3 > 5$

3.  $-4 \leq \frac{b}{-3} + 2$

4.  $2(d+5) < -12$

5.  $4(n-1) > 2(n+8)$

6.  $3(b-4) + 5 \leq 2(b+1)$

7.  $5(y-6) + 3y \leq 2(y+2) + 8$

8.  $5(p-3) - 3(p+1) > 10$