5-4 Practice
Solving Compound Inequalities

Graph the solution set of each compound inequality.
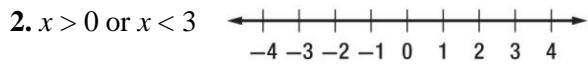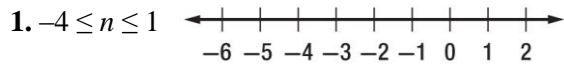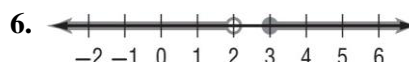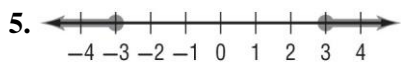
1. $-4 \le n \le 1$

2. $x > 0$ or $x < 3$

3. $g < -3$ or $g \ge 4$

4. $-4 \le p \le 4$
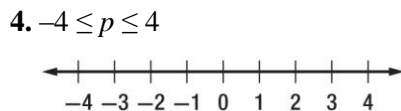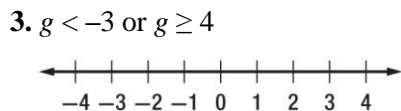
Write a compound inequality for each graph.

5.

6.

7.

8.

Solve each compound inequality. Then graph the solution set.

9. $k - 3 < -7$ or $k + 5 \ge 8$

10. $-n < 2$ or $2n - 3 > 5$

11. $5 < 3h + 2 \le 11$

12. $2c - 4 > -6$ and $3c + 1 < 13$
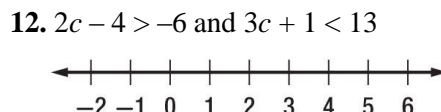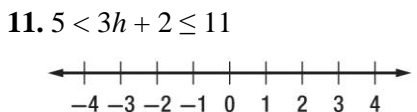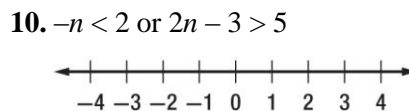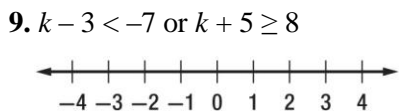
Define a variable, write an inequality, and solve each problem. Check your solution.

13. Two times a number plus one is greater than five and less than seven.

14. A number minus one is at most nine, or two times the number is at least twenty-four.

15. METEOROLOGY Strong winds called the prevailing westerlies blow from west to east in a belt from 40° to 60° latitude in both the Northern and Southern Hemispheres.

    a. Write an inequality to represent the latitude of the prevailing westerlies in the Northern Hemisphere.

    b. Write an inequality to represent the latitudes where the Northern prevailing westerlies are *not* located.

16. NUTRITION A cookie contains 9 grams of fat. If you eat no fewer than 4 and no more than 7 cookies, how many grams of fat will you consume?