

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

## Compound Sentences

Graph the solution set of each compound sentence.

1)  $m < -7$  or  $m \geq 0$

2)  $x \geq -2$  and  $x \leq 5$

3)  $n \leq -5$  and  $n \geq -1$

4)  $r > 2$  or  $r \leq -2$

5)  $b > 5$  or  $b \leq 0$

6)  $p < -3$  and  $p > 3$

7)  $x > -5$  and  $x < 0$

8)  $d \geq -6$  and  $d \leq -3$

9)  $q \geq -5$  and  $q \leq 1$

10)  $w > -3$  or  $w < 1$

11)  $d > 0$  or  $d < 4$

12)  $s \leq 8$  or  $s \geq 3$

13)  $a > 8$  or  $a < 5$

14)  $p \leq 6$  and  $p \geq -1$

Solve each inequality and graph the solution set.

15)  $3 + x < -4$  or  $3 + x > 4$

16)  $-1 + b > -4$  or  $-1 + b < 3$

17)  $2 > 3t + 2$  and  $3t + 2 > 13$

18)  $9 - 2m > 11$  and  $5m < 2m + 9$

19)  $2x + 4 \leq 6$  or  $x \geq 2x - 4$

20)  $7 + 3q < 1$  or  $-12 < 11q - 1$

21)  $x \neq 6$  and  $3x + 1 > 10$

22)  $-2 \leq x + 3$  and  $x + 3 < 4$

23)  $-5 < 4 - 3x < 13$

24)  $-3 - x < 2x < 3 + x$

25)  $2x - 1 < 2x + 8 < 2x + 4$

26)  $x - 1 < 2x + 3 < x + 4$

27)  $5(x - 3) + 2 < 7$  and  $5x > 4(2x - 3)$

28)  $2 - 5(2x - 3) > 2$  or  $3x < 2(x - 8)$

Write the compound sentence whose solution set is graphed.

