

14-05-13-T7

**Solve each compound inequality and graph its solution.**

1)  $-6r \geq -60$  and  $-8r \leq 56$

2)  $4x < 40$  and  $-10x \leq 80$

3)  $n + 2 < 9$  and  $2n - 2 > -6$

4)  $9a + 7 < 70$  and  $-10 - 3a \leq -28$

5)  $3v + 5 \leq 4v + 6$  and  $5v - 6 \leq 4v - 6$

6)  $5n - 8 \leq 7n - 4$  and  $-4n - 5 \geq 2 + 3n$

7)  $5p + 2 \leq 6p + 1$  and  $7p - 3 \leq 6p + 9$

8)  $4k - 2 < 3k + 9$  and  $7k - 6 \leq 8k + 1$

9)  $x - 6 \geq 8x + 8$  and  $-6x - 8 \leq -2 - 5x$

10)  $2 + 6n > 2 + 9n$  and  $-8n - 6 \leq -7n - 4$

11)  $3 + n \geq 6n + 8$  and  $4n - 3 < 5 + 6n$

12)  $1 - 6x \leq 4 - 5x$  and  $8 + 8x > 9x - 7$

13)  $5 - 2x \leq 6 - 3x$  and  $5x - 9 < -1 + 6x$

14)  $-6 + 3m > 7m - 6$  and  $8m - 2 \geq 7m - 7$

15)  $-5 + 2r \geq 6r - 5$  and  $3 - 7r \leq 8 - 2r$

16)  $x - 2 < 8 - x$  and  $5x - 8 \leq 1 + 6x$

## Answers to 14-05-13-T7

