

Math 1

Determine whether the solution set of a compound inequality is a conjunction, disjunction, all real numbers, or the empty set.

1. $\frac{x}{4} > 1$ OR $x - 6 < 2$

2. $-6x > 48$ OR $-5x < 35$

3. $\frac{x}{10} \geq 0$ OR $\frac{x}{9} \leq -1$

4. $\frac{x}{4} > 0$ OR $\frac{x}{6} < 2$

5. $x + 5 \geq -5$ AND $x + 4 \leq 9$

6. $8x \leq -80$ OR $\frac{x}{7} > -1$

7. $x + 7 > -3$ AND $x - 4 \leq -11$

8. $\frac{x}{5} \leq -1$ OR $x + 2 > -7$

9. $9 < x + 10 < 15$

10. $\frac{x}{2} < -5$ AND $x - 2 \geq 3$

11. $20 \leq -2x < -16$

12. $0 > \frac{x}{10} \geq -1$

13. $2 + x > -6$ AND $-10 + x < -5$

14. $-54 \leq -6x < 42$

15. $-9x > -90$ AND $5x \geq -5$

16. $-2 < 4 + x \leq -1$