

Exercises – Linear inequalities

Find the interval (or intervals) of values of the variable that satisfy the inequalities:

1. $x + 5 > 9$

2. $4 \leq b - 12$

3. $x - 3.45 > 2.67$

4. $4y - 8 \geq 10$

5. $-3x - \frac{5}{6} < \frac{x}{3}$

6. $\frac{2z}{3} - 5 < 3z$

7. $\frac{x+2.3}{3.2} \geq 4.5$

8. $4x - 8 \geq 7x + 3$

9. $3(y - 3) + (y - 3) \geq (y - 3)$

10. $3(t - 7) < 2 - 10t$

11. $0 < 2 - 3x < 5$

12. $3(1 - x)(2 + x) > 0$

13. $(3 - x)(4 + x) < 0$

14. $\frac{3}{8} < \frac{3R-4}{3} \leq \frac{3}{4}$

15. $0 < 1 - \frac{x}{6} \leq \frac{1}{6}$

16. $\frac{7(3x-5)+3(x-1)}{3} \leq 1 - \frac{x}{6}$

17. $\frac{x+4}{3} + \frac{x}{2} > 3(3 - 2x)$