

For calculating equations and inequalities we use equivalent and non-equivalent algebraic operations see worksheet 5.

IMPORTANT

When multiplying or dividing the inequality by negative number, you must reverse the inequality sign.

EXERCISES:

1. $x < 0$

2. $x \leq 4$

3. $\frac{x}{2} < 2$

4. $2(x-3) < x-1$

5. $\frac{4x}{3} \leq \frac{2}{3} + x$

6. $2 - \frac{x+2}{3} > x - \frac{x+3}{3}$

7. $6x+1 > 2(x-5)-1$

8. $0 \cdot x > 3$

9. $0 \cdot x \leq 3$

10. $0 \cdot x \geq 0$

11. $0 \cdot x < -2$

12. $(x-1)^2 - (x+1)^2 < 8$

13. $\frac{4x-7}{2} - \frac{x-4}{6} \geq 2x-3$

14. $5 \leq b+5 < 9$

15. $-6 \leq -2n \leq 2$

16. $-3 < r+3 \leq 5$

17. $-64 < 6b-4 < -22$

18. $-17n-12 < 13n-12 \leq -8+9n$