

Review of Inequalities and Absolute Value

Solve for x. If it's an inequality, **graph it** and **give interval notation**.

1. $-4x+8 < 2$	2. $3x > 18$ OR $-2x+5 > -3$
3. $ 3x-4 = 6$	4. $-1 \leq 4x-2 \leq 2$
5. $3 x+4 < 9$	6. $x+8 \geq -3x-8$
7. $ 5x -2 \geq 11$	8. $ 2x -5 = 7$
9. $2x+1 \leq 1$ OR $3x+5 \geq 8$	10. $ 2x-5 < -4$

11. $8 - |x| = 3$

12. $3x + 8 > 3x + 1$

13. $-3 \leq -3x + 5 \leq -2$

14. $4|x| + 2 > -6$

15. $2|2x - 1| > 2$

16. $|4x - 8| < 5$

17. $\frac{1}{6} \leq \frac{x}{3} \leq \frac{5}{2}$ (multiply everything by 6!)

18. $\frac{1}{2} > \frac{x}{4} - \frac{7}{8}$ (multiply everything by ??)

19. $3 + 2|4x - 2| = 7$

20. $3 + 2|4x - 2| > 7$