

Solve the following equations.

4. $\frac{2x}{4} + \frac{x-1}{2} = 8$

5. $3(x+1) - 2(2x-7) = 4(x-1)$

6. $|2x+1| = 3$

7. $2|3x-1| - 6 = 8$

Solve each inequality, graph the answer on a number line, and represent the answer in INTERVAL NOTATION.

8. $4x - 3 < 5x + 2$

9. $\frac{-4x + 22}{5} \geq -3x$

10. $-3x + 2 > 2(2x + 1)$

11. $7 < 2x - 1 \leq 13$

12. $4x + 3 < -6$ AND $3x - 7 > 2$

13. $2x + 1 < 5$ OR $-3x + 6 > 12$

14. $|5x + 10| \leq 15$

15. $5 - |3x - 1| < 4$