

ECUACIONES DE PRIMER GRADO

1. $x + 2(x - 3) = 9$

2. $8 = 3x - 8(3 - 2x) - 63$

3. $18x + 14(x - 1) = 1 - 15(3x + 1)$

4. $4(2 + 3x) = 8(6 + 2x) + 72$

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

6. $7(4x - 3) - 4(x - 1) = 15(x + 3/4) + 7$

7. $\frac{15x}{2} - \frac{x}{4} = \frac{5}{2}$

8. $5x - \frac{3 - 2x}{2} = 2x + \frac{5}{2}$

9. $5x - 13 = \frac{2x - 5}{4} + \frac{x + 4}{4}$

10. $\frac{7 - 3x}{12} + \frac{3}{4} = 2(x - 2) + \frac{3(5 - 2x)}{6}$

11. $\frac{5x + 7}{4} - \frac{3x + 5}{8} = \frac{4x + 9}{5} - \frac{x - 9}{3}$

12. $\frac{3(x + 3)}{2} - \frac{4x}{3} = \frac{4(x - 3)}{9} - \frac{5(x + 1)}{4}$

13. $2(x + 5) = \frac{x + 2}{3} + 4x$

14. $\frac{x}{15} + x = \frac{2x}{5} + 10$

15. $\frac{3x - 12}{4} - x = x - 3$

16. $5 - \frac{6x - 4}{5} = x - 3$

17. $\frac{7 - 3x}{12} - \frac{3(5 - 2x)}{6} = 2(x - 2) + \frac{5}{4}$

18. $x - \frac{3x}{4} + \frac{1}{10} = \frac{4x}{5} - \frac{x}{2}$

19. $\frac{x}{2} - 2(x - 1) = 3\left(\frac{x}{2} - \frac{1}{3}\right) + 1$

20. $3x - \frac{3(x - 1)}{2} = 2(x + 2) - \frac{13}{5}$

21. $\frac{x}{3} + \frac{x}{5} + 1 = \frac{3x}{4} - \frac{1}{2}$

22. $\frac{x - 1}{5} - \frac{x + 2}{10} + \frac{1 - 3x}{15} = \frac{x + 2}{30}$

23. $1 - \frac{2x - 8}{21} + \frac{3x}{7} = x - \frac{x + 5}{3}$

24. $2x - \frac{1 - 3x}{10} + \frac{2}{3} = 2(x - 3) + \frac{1}{5}$

25. $\frac{2(x - 3)}{7} - \frac{1 - 6x}{14} + \frac{5(x - 2)}{2} = 1$

26. $\frac{x - 4}{5} + \frac{3(x - 2)}{15} = \frac{1}{10} - \frac{x - 1}{2}$

27. $\frac{2(x - 1)}{3} - \frac{x + 4}{15} + 1 = x - \frac{3(x - 2)}{5}$

28. $\frac{x + 3}{2} - \frac{2(4 - x)}{3} = x - 2$

29. $\frac{1}{2}\left(\frac{3}{4}x - \frac{1}{3}\right) + \frac{x}{4} = 1 - \frac{x - 2}{5}$

30. $3x - \left[\frac{1}{2} - \left[x - \frac{1}{3}\left(1 - \frac{x - 2}{2}\right)\right] - \frac{x - 1}{3}\right] = 1 - \frac{1}{4}$

**SOLUCIONES ECUACIONES PRIMER GRADO**

1. $x = 5$	11. $x = 9$	21. $x = 90/13$
2. $x = 5$	12. $x = -51/7$	22. $x = -3$
3. $x = 0$	13. $x = 4$	23. $x = 64/7$
4. $x = -28$	14. $x = 15$	24. $x = -191/9$
5. $x = 9$	15. $x = 0$	25. $x = 97/45$
6. $x = 47/12$	16. $x = 4$	26. $x = 2$
7. $x = 10/29$	17. $x = 2/3$	27. $x = 17/3$
8. $x = 1$	18. $x = 2$	28. $x = -5$
9. $x = 3$	19. $x = 2/3$	29. $x = 188/99$
10. $x = 34/15$	20. $x = 1/5$	30. $x = 1/2$