COLECCIÓN DE ECUACIONES 4

1. $x-15=3(2x-1)-(x-4)$ $\quad x=-4$

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

3. $\frac{1-2x}{9}=1-\frac{x+4}{6}$ $\quad x=-4$

4. $\frac{1}{2}\left[1-(x+2)^2\right]=-x-\frac{x^2-1}{2}$ $\quad x=-2$

5. $(3x+2)^2+3(1-3x)x=2(x-11)$ $\quad x=-2$

6. $(2x-3)^2+(x-2)^2=3(x+1)+5x(x-1)$ $\quad x=5/7$

7. $(x+1)^2-3x=3$ $\quad x=-1 \quad x=2$

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

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

10. $\frac{x-3}{x}+\frac{x+3}{x^2}=\frac{2}{3}$ $\quad x=-3 \quad x=3$

11. $\frac{1}{x}+\frac{1}{x^2}=\frac{3}{4}$ $\quad x=-3/2 \quad x=2$

12. $(x+1)^2-(x-2)^2=(x+3)^2+x^2-20$ $\quad x=-2 \quad x=2$

13. $7x^2+5=705$ $\quad x=10,\ x=-10$

14. $5x^2-45=0$ $\quad x=3 \quad x=-3$

15. $5x^2+20x=0$ $\quad x=0,\ x=-4$

16. $3x^2-21x=0$ $\quad x=0,\ x=7$

17. $2x^2-x-1=0$ $\quad x=1,\ x=-1/2$

18. $\left(\frac{2x}{3}+\frac{3}{2}\right)^2-\frac{9}{4}=0$ $\quad x=-9/2 \quad x=0$

19. $x^2-x-6=0$ $\quad x=3,\ x=-2$

20. $(x-1)(x+3)=0$ $\quad x=-3,\ x=1$

21. $(x-2)(x+4)(2x-5)=0$ $x=2,\ x=-4,\ x=5/2$

22. $x(x+1)(x-2)(x-\frac{1}{2})=0$ $x=0,\ x=-1\ \ x=2,\ x=1/2$

23. $x^4-3x^2-4=0$ $x=-2,\ x=-i\ \ x=i,\ x=2$

24. $x^4-5x^2+6=0$ $x=-\sqrt{2},\ x=\sqrt{2}\ \ x=-\sqrt{3},\ x=\sqrt{3}$

25. $x^4-9x^2=0$ $x=-3,\ x=0\ \ x=0,\ x=3$

26. $9x^4-10x^2+1=0$ $x=-1,\ x=-1/3\ \ x=1/3\ \ x=1$

27. $(x+5)^2=1$ $x=-6\quad x=-4$

28. $(2x-1)^2=4$ $x=-1/2\quad x=3/2$

29. $(3x-2)^4=0$ $x=2/3,\ x=2/3\ \ x=2/3,\ x=2/3$

30. $x-\sqrt{x}=2$ $x=4$

31. $x-\sqrt{25-x^2}=1$ $x=4$

32. $\sqrt{x^2+3}-\sqrt{3-x}=0$ $x=-1,\ \ x=0$

33. $\sqrt{x}+\sqrt{3x-2}=2$ $x=1$

34. $\sqrt{x^2+7}+2=2x$ $x=3$

35. $x^3-27=0$ $x=3$

36. $\left.\begin{matrix}3x-5y=1\\ x+2y=15\end{matrix}\right\}$ $x=7\quad y=4$

37. $\left.\begin{matrix}2x-y=4\\ 4x+3y=-7\end{matrix}\right\}$ $x=1/2\quad y=-3$

38. $\left.\begin{matrix}\frac{x+1}{3}+y=1\\ \frac{x-3}{4}+2y=1\end{matrix}\right\}$ $x=-1\quad y=1$