

1. Resuelve el sistema:

1. $\begin{cases} 2x+y=4 \\ x+y=3 \end{cases}$
2. $\begin{cases} 2x+y=1 \\ x+y=0 \end{cases}$
3. $\begin{cases} 4x+2y=1 \\ x-y=1 \end{cases}$
4. $\begin{cases} 2x+5y=1 \\ x+y=0 \end{cases}$
5. $\begin{cases} 2x+y=3 \\ 3x-2y=1 \end{cases}$
6. $\begin{cases} 2x-y=2 \\ 3x-2y=2 \end{cases}$
7. $\begin{cases} 2x+y=1 \\ 3x+3y=1 \end{cases}$
8. $\begin{cases} 3x+5y=2 \\ 5x+y=7 \end{cases}$
9. $\begin{cases} 2x+3y=7 \\ 3x-2y=4 \end{cases}$
10. $\begin{cases} 2x+3y=1 \\ 3x+2y=4 \end{cases}$
11. $\begin{cases} 3x+3y=1 \\ 2x-5y=3 \end{cases}$
12. $\begin{cases} 2x+4y=5 \\ 3x-5y=2 \end{cases}$
13. $\begin{cases} 3(x+y)=2y+1 \\ 2(x-y)-1=5 \end{cases}$
14. $\begin{cases} 3(x+y)=1+y \\ 5(x-y)=9-y \end{cases}$
15. $\begin{cases} 2(x-y)=y+1 \\ 3x=2(y+2) \end{cases}$
16. $\begin{cases} 2(x+2)=y+3 \\ 3(3x+y)=1-3y \end{cases}$
17. $\begin{cases} 2(x+y)=2-y \\ 3(x+2y)=2 \end{cases}$
18. $\begin{cases} 2(x+y)=2+y \\ 4(x+y)=7-2x \end{cases}$
19. $\begin{cases} 2(x+y)=3-2x \\ 3(x+1)=5-y \end{cases}$
20. $\begin{cases} 2(x+y)=1-y \\ 9(2x+3y)=7-3y \end{cases}$
21. $\begin{cases} 3x+2(y-2)-1=2x-4 \\ 3(x-1)-y+3=2(x-y) \end{cases}$
22. $\begin{cases} x+y-2(x-1)=1+2y \\ x+2(y+1)=3-2x \end{cases}$
23. $\begin{cases} 1-y-2(x+1)=3y-2 \\ 1-x-2(y+1)=2x-y \end{cases}$
24. $\begin{cases} 1-2y-2(2x-1)=x+2 \\ x-2-2(y-1)=2x-y \end{cases}$
25. $\begin{cases} 2(x-1)-2(y-1)=1-y \\ 2(x+1)-2(y+1)=1-x \end{cases}$
26. $\begin{cases} 3(x-1)-2(y-1)=3-y \\ 2(x+1)-3(y+1)=1-2y \end{cases}$
27. $\begin{cases} 3(x+1)-2(y-1)=4-5y \\ 2(x-1)-2(y+1)=y-1 \end{cases}$
28. $\begin{cases} 3(x-1)+2(y+1)=y-5 \\ 2(x+1)-2(y-1)=3-6y \end{cases}$
29. $\begin{cases} 2(x-y+1)+y=2(y+1)-1 \\ 3(x-y+2)-y=2(3-y)-4 \end{cases}$
30. $\begin{cases} 2(x-y)-2(y-5)=3-y \\ 2(x+y)-3(x-2)=2(1-2x) \end{cases}$
31. $\begin{cases} 2(x-y-1)-2(y-1)=1-(x+y) \\ 2(x-2y)-2(y-1)=y+1 \end{cases}$
32. $\begin{cases} 2(x+y)+3(y+1)=y+4 \\ 5(x+y)-3(x-1)=5-x \end{cases}$

2. Resuelve el sistema:

1. $\begin{cases} x+2y=1 \\ \frac{x}{3}+\frac{y}{2}=\frac{1}{6} \end{cases}$
2. $\begin{cases} 2x+y=2 \\ \frac{x}{2}+\frac{y}{6}=\frac{2}{3} \end{cases}$
3. $\begin{cases} x+2y=3 \\ \frac{x}{2}-\frac{y}{3}=\frac{5}{6} \end{cases}$
4. $\begin{cases} \frac{x}{2}+y=\frac{1}{6} \\ 2x+3y=\frac{1}{6} \end{cases}$
5. $\begin{cases} \frac{x}{2}-\frac{y}{4}=1 \\ \frac{x}{3}-\frac{y}{2}=0 \end{cases}$
6. $\begin{cases} \frac{x}{3}+\frac{y}{2}=-\frac{1}{6} \\ \frac{x}{2}+y=0 \end{cases}$
7. $\begin{cases} \frac{1}{3}x+\frac{1}{2}y=\frac{1}{3} \\ \frac{1}{3}x-\frac{1}{4}y=\frac{1}{12} \end{cases}$
8. $\begin{cases} \frac{1}{3}x-\frac{1}{2}y=\frac{1}{6} \\ \frac{3}{4}x-\frac{3}{2}y=\frac{1}{8} \end{cases}$
9. $\begin{cases} \frac{x}{6}-\frac{y-6}{3}=3 \\ x-\frac{y+4}{2}=1 \end{cases}$
10. $\begin{cases} \frac{x}{2}-\frac{y-4}{4}=2 \\ x-\frac{2-y}{4}=0 \end{cases}$
11. $\begin{cases} \frac{x}{2}+\frac{y+2}{3}=\frac{3}{4} \\ \frac{x-1}{4}-\frac{y}{2}=\frac{1}{8} \end{cases}$
12. $\begin{cases} \frac{x}{2}+\frac{y+1}{3}=\frac{1}{3} \\ \frac{x+1}{2}+\frac{y}{4}=\frac{7}{12} \end{cases}$
13. $\begin{cases} \frac{x}{2}-\frac{4x+3y}{12}=1 \\ x-\frac{2x+y}{4}=2 \end{cases}$
14. $\begin{cases} \frac{x}{2}-\frac{3x-2y}{12}=1 \\ \frac{2x}{3}-\frac{3x-y}{9}=1 \end{cases}$
15. $\begin{cases} \frac{3x}{2}-\frac{2y+3x}{3}=\frac{1}{6} \\ \frac{x+2y}{2}-\frac{5y}{4}=\frac{3}{8} \end{cases}$

3. Resuelve el sistema:

1. $\begin{cases} 2x+y-z=1 \\ x-2y+2z=3 \\ 3x-2y+z=2 \end{cases}$
2. $\begin{cases} x+y-z=1 \\ 2x+2y-3z=1 \\ 4x-2y-z=1 \end{cases}$
3. $\begin{cases} x+y+z=2 \\ 2x-2y-z=2 \\ 3x+5y+2z=2 \end{cases}$
4. $\begin{cases} x-y-z=0 \\ x+2y-5z=2 \\ 3x-2y-4z=1 \end{cases}$
5. $\begin{cases} 6x-6y+8z=3 \\ 3x-6y+6z=1 \\ 12x-12y+12z=5 \end{cases}$
6. $\begin{cases} 2(x+y)+z=x+1 \\ 2(x-y)-z=y+1 \\ 3(x+z)+2y=y-2 \end{cases}$
7. $\begin{cases} x+z=y \\ 2(x+z)=3y-1 \\ 2(y+z)=3(1-x-z) \end{cases}$
8. $\begin{cases} x+2y=z+1 \\ 3x=2(y+z) \\ 3(x+z)=4(y+1) \end{cases}$
9. $\begin{cases} 3(x+z)=1-y \\ 2(y-z)=3-x \\ 2(x-y)=z-1 \end{cases}$
10. $\begin{cases} 2(x+y)=1-z \\ 2(x-z)=2+y \\ y+z=1-4x \end{cases}$
11. $\begin{cases} \frac{x}{3}+\frac{3y+z}{6}=-1 \\ \frac{x}{2}+\frac{y+2z}{4}=-1 \\ \frac{x}{3}-\frac{y-z}{6}=-1 \end{cases}$
12. $\begin{cases} \frac{x}{4}-\frac{y}{8}-\frac{z}{2}=1 \\ \frac{x}{3}-\frac{y+z}{2}=\frac{8}{3} \\ \frac{x-y}{6}-\frac{z}{3}=1 \end{cases}$
13. $\begin{cases} \frac{x+y+7}{3}-\frac{z}{2}=0 \\ \frac{x-z}{4}+\frac{y}{8}+1=0 \\ \frac{z}{2}-\frac{2x+y}{6}-\frac{5}{3}=0 \end{cases}$
14. $\begin{cases} \frac{y+6}{2}-\frac{x-z}{3}=1 \\ \frac{y+6}{3}-\frac{x-z}{6}=1 \\ \frac{x-2y-5}{3}-\frac{z}{2}=1 \end{cases}$
15. $\begin{cases} \frac{x+3y}{6}-\frac{z+1}{3}=y \\ 2+z+\frac{x-4z}{4}=y \\ \frac{x-5}{5}-\frac{z-y}{2}=y \end{cases}$

4. Resuelve el sistema:

$$\begin{array}{l}
 1. \begin{cases} x-2y = 1 \\ x^2+4y = 1 \end{cases} \quad 2. \begin{cases} 3x+y = 1 \\ x^2-y = 3 \end{cases} \quad 3. \begin{cases} 2x-y = 1 \\ 3x-y^2 = 2 \end{cases} \quad 4. \begin{cases} 2x+3y = 1 \\ x^2+2y = 2 \end{cases} \quad 5. \begin{cases} 2x+3y = 1 \\ 2y-x^2 = 1 \end{cases} \\
 6. \begin{cases} x-y = 3 \\ x^2+y^2 = 5 \end{cases} \quad 7. \begin{cases} x-y = 1 \\ x^2-2y^2 = 2 \end{cases} \quad 8. \begin{cases} 2x-y = 2 \\ 2x^2-y^2 = 2 \end{cases} \quad 9. \begin{cases} 2x-3y = 0 \\ x^2-2y^2 = 1 \end{cases} \quad 10. \begin{cases} x-2y = 1 \\ 2x^2-y^2 = 1 \end{cases} \\
 11. \begin{cases} x^2-y = 3 \\ x^2+y^2 = 5 \end{cases} \quad 12. \begin{cases} 3x-y^2 = 2 \\ 3x^2-2y^2 = 4 \end{cases} \quad 13. \begin{cases} x^2-y = 6 \\ 2x^2+y^2 = 27 \end{cases} \quad 14. \begin{cases} 2x+y^2 = 2 \\ 4x^2+6y^2 = 7 \end{cases} \quad 15. \begin{cases} 2x^2+y = 3 \\ 16(x^2-1)+y^2 = 1 \end{cases} \\
 16. \begin{cases} xy-x+y = 4 \\ xy-y = 2 \end{cases} \quad 17. \begin{cases} xy-x+2y = 3 \\ xy+x+3 = 0 \end{cases} \quad 18. \begin{cases} xy+2x+y = 0 \\ x-xy = 2 \end{cases} \quad 19. \begin{cases} xy+x-y = 1 \\ 2xy-x-y = 0 \end{cases} \quad 20. \begin{cases} xy-x+y = 1 \\ 2xy+2x-y = 1 \end{cases}
 \end{array}$$

5. Resuelve el sistema:

$$\begin{array}{l}
 1. \begin{cases} xy-2y = 1 \\ xy+x+y^2 = 1 \end{cases} \quad 2. \begin{cases} x^2+y^2-2x = 1 \\ x^2+y^2+2y = 3 \end{cases} \quad 3. \begin{cases} x^2+y^2-x-y = 2 \\ x^2+y^2-2x+y = 2 \end{cases} \quad 4. \begin{cases} x^2+y^2+2x = 1 \\ x^2-y^2+2y = 1 \end{cases} \quad 5. \begin{cases} x^2+y^2-2xy = 4 \\ x^2-y^2-xy = 5 \end{cases} \\
 6. \begin{cases} \frac{1}{x} + \frac{1}{y} = \frac{3}{2} \\ \frac{2}{x} - \frac{2}{y} = 1 \end{cases} \quad 7. \begin{cases} \frac{1}{x} + \frac{4}{y} + 1 = 0 \\ \frac{1}{x} + y + 1 = 0 \end{cases} \quad 8. \begin{cases} \frac{1}{x} - \frac{1}{y} = 1 \\ \frac{1}{3x} + \frac{1}{2y} = 2 \end{cases} \quad 9. \begin{cases} \frac{2}{x} - \frac{1}{y} = 1 \\ \frac{3}{2x} - \frac{2}{3y} = 1 \end{cases} \quad 10. \begin{cases} \frac{1}{x} + y = 1 \\ 3x - \frac{1}{y} = 4 \end{cases} \\
 11. \begin{cases} y - \frac{2}{x} = 1 \\ x - \frac{2}{y} = 1 \end{cases} \quad 12. \begin{cases} \frac{1}{x} - \frac{1}{y} = 3 \\ x + y^2 - xy = 1 \end{cases} \quad 13. \begin{cases} x - y = 1 \\ \sqrt{x+2} - y = 1 \end{cases} \quad 14. \begin{cases} x + y = 2 \\ x + \sqrt{y-1} = 1 \end{cases} \quad 15. \begin{cases} 2x + 3y = 1 \\ \sqrt{x+2} + y = 1 \end{cases} \\
 16. \begin{cases} x+y = 2 \\ \sqrt{x+3} - \sqrt{y} = 1 \end{cases} \quad 17. \begin{cases} x - y = 1 \\ \sqrt{x+1} - \sqrt{y-1} = 1 \end{cases} \quad 18. \begin{cases} 3x+y-1 = 0 \\ \sqrt{2x-1} - \sqrt{2-y} + 1 = 0 \end{cases} \quad 19. \begin{cases} \sqrt{2x-1} + \sqrt{y+2} = 2 \\ 2\sqrt{2x-1} + y = 1 \end{cases} \quad 20. \begin{cases} \sqrt{x-1} + \sqrt{y} = 2 \\ \frac{1}{\sqrt{x-1}} + \frac{1}{\sqrt{y}} = 2 \end{cases}
 \end{array}$$

— Soluciones —

- 1.1. (1,2) 1.2. (1,-1) 1.3. $\left(\frac{1}{2}, \frac{-1}{2}\right)$ 1.4. $\left(\frac{-1}{3}, \frac{1}{3}\right)$ 1.5. (1,1) 1.6. (2,2) 1.7. $\left(\frac{2}{3}, \frac{-1}{3}\right)$ 1.8. $\left(\frac{3}{2}, \frac{-1}{2}\right)$ 1.9. (2,1) 1.10. (2,-1) 1.11. $\left(\frac{2}{3}, \frac{-1}{3}\right)$ 1.12. $\left(\frac{3}{2}, \frac{1}{2}\right)$ 1.13. (1,-2) 1.14. (1,-1) 1.15. (2,1) 1.16. $\left(\frac{1}{3}, \frac{-1}{3}\right)$ 1.17. $\left(2, \frac{-2}{3}\right)$ 1.18. $\left(\frac{1}{2}, 1\right)$ 1.19. $\left(\frac{1}{2}, \frac{1}{2}\right)$ 1.20. $\left(\frac{3}{2}, \frac{-2}{3}\right)$ 1.21. (-1,1) 1.22. (-1,2) 1.23. $\left(\frac{-1}{2}, \frac{1}{2}\right)$ 1.24. $\left(\frac{1}{3}, \frac{-1}{3}\right)$ 1.25. (1,1) 1.26. (2,2) 1.27. $\left(\frac{-2}{3}, \frac{1}{3}\right)$ 1.28. $\left(\frac{-3}{2}, \frac{1}{2}\right)$ 1.29. (-2,-1) 1.30. (-2,1) 1.31. $\left(\frac{2}{3}, \frac{1}{3}\right)$ 1.32. $\left(\frac{3}{2}, \frac{-1}{2}\right)$ 2.1. (-1,1) 2.2. (2,-2) 2.3. $\left(2, \frac{1}{2}\right)$ 2.4. $\left(\frac{-2}{3}, \frac{1}{3}\right)$ 2.5. (3,2) 2.6. (-2,1) 2.7. $\left(\frac{1}{2}, \frac{1}{3}\right)$ 2.8. $\left(\frac{3}{2}, \frac{2}{3}\right)$ 2.9. (2,-2) 2.10. (1,-2) 2.11. $\left(\frac{1}{2}, \frac{-1}{2}\right)$ 2.12. $\left(\frac{2}{3}, -1\right)$ 2.13. (3,-2) 2.14. (2,3) 2.15. $\left(1, \frac{1}{2}\right)$ 3.1. (1,2,3) 3.2. (1,1,1) 3.3. (1,-1,2) 3.4. (3,2,1) 3.5. $\left(\frac{1}{2}, \frac{1}{3}, \frac{1}{4}\right)$ 3.6. (1,1,-2) 3.7. (2,1,-1) 3.8. $\left(1, \frac{1}{2}, 1\right)$ 3.9. $\left(\frac{1}{3}, 1, \frac{-1}{3}\right)$ 3.10. $\left(\frac{1}{3}, \frac{2}{3}, -1\right)$ 3.11. (-4,0,2) 3.12. (2,-4,0) 3.13. (0,-4,2) 3.14. (2,0,-4) 3.15. (0,2,-4) 4.1. (1,0), (-3,-2) 4.2. (1,-2), (-4,13) 4.3. (1,1), $\left(\frac{3}{4}, \frac{1}{2}\right)$ 4.4. (2,-1), $\left(\frac{-2}{3}, \frac{7}{9}\right)$ 4.5. (-1,4), $\left(\frac{-1}{3}, \frac{5}{9}\right)$ 4.6. (2,-1), (1,-2) 4.7. (2,1) 4.8. (1,0), (3,4) 4.9. (3,2), (-3,-2) 4.10. (-1,-1), $\left(\frac{5}{7}, \frac{-1}{7}\right)$ 4.11. (1,-2), (-1,-2), (2,1), (-2,1) 4.12. (2,2); (2,-2) 4.13. (1,-5), (-1,-5), (3,3), (-3,3) 4.14. $\left(\frac{1}{2}, 1\right)$, $\left(\frac{1}{2}, -1\right)$ 4.15. (1,1), (-1,1) 4.16. (2,2), $\left(-3, \frac{-1}{2}\right)$ 4.17. (-1,2), (-3,0) 4.18. (1,-1), $\left(\frac{-2}{3}, 4\right)$ 4.19. (1,1), $\left(\frac{1}{3}, -1\right)$ 4.20. (-1,-1), $\left(\frac{1}{2}, 1\right)$ 5.1. (1,-1) 5.2. (0,1), (2,-1) 5.3. (2,1), $\left(\frac{-4}{5}, \frac{-2}{5}\right)$ 5.4. (0,1), (-2,-1) 5.5. (3,1), (-3,-1) 5.6. (1,2) 5.7. (1,-2), $\left(\frac{-1}{3}, 2\right)$ 5.8. $\left(\frac{1}{3}, \frac{1}{2}\right)$ 5.9. $\left(\frac{1}{3}, \frac{1}{2}\right)$ 5.10. $\left(2, \frac{1}{2}\right)$, $\left(\frac{2}{3}, \frac{-1}{2}\right)$ 5.11. (-1,-1), (2,2) 5.12. $\left(\frac{1}{4}, 1\right)$ 5.13. (2,1) 5.14. (0,2), (1,1) 5.15. (2,-1) 5.16. (1,1) 5.17. (3,2) 5.18. (1,-2), (5,-14) 5.19. (1,-1) 5.20. (2,1)