

SISTEMES D'EQUACIONS LINEALS

Resol els següents sistemes d'equacions lineals pel mètode que consideris més adequat:

1.
$$\begin{cases} 2x + 3y = -5 \\ 4x + 5y = -7 \end{cases}$$

2.
$$\begin{cases} 3x + y = 1 \\ -4x + 2y = 12 \end{cases}$$

3.
$$\begin{cases} -7x + 5y = -4 \\ 2x - 9y = -14 \end{cases}$$

4.
$$\begin{cases} -3x - 4y = 1 \\ 2x + y = 1 \end{cases}$$

5.
$$\begin{cases} 2x - 7y = -4 \\ -3x + 5y = 6 \end{cases}$$

6.
$$\begin{cases} x + 3y = 0 \\ 4x - 2y = 14 \end{cases}$$

7.
$$\begin{cases} 3x + 2y = -5 \\ -4x + y = 14 \end{cases}$$

8.
$$\begin{cases} 7x + 2y = 1 \\ -3x + y = -6 \end{cases}$$

9.
$$\begin{cases} 8x + 5y = 3 \\ 3x - 4y = 7 \end{cases}$$

10.
$$\begin{cases} 2x - 3y = -3 \\ -5x + 2y = -9 \end{cases}$$

11.
$$\begin{cases} 10x - 3y = -5 \\ -3x + 2y = 7 \end{cases}$$

12.
$$\begin{cases} 7x + 2y = 3 \\ 3x + 2y = 7 \end{cases}$$

13.
$$\begin{cases} 5x + 3y = 19 \\ 4x - 2y = 2 \end{cases}$$

14.
$$\begin{cases} 2x - 3y = 3 \\ -3x + 2y = -7 \end{cases}$$

15.
$$\begin{cases} 3x + 4y = 13 \\ 2x - 5y = 1 \end{cases}$$

16.
$$\begin{cases} 4x + y = -3 \\ 5x - 2y = 6 \end{cases}$$

17.
$$\begin{cases} 2x + 3y = -1 \\ 4x + 5y = -1 \end{cases}$$

18.
$$\begin{cases} 3x - 4y = -1 \\ 6x - 3y = 18 \end{cases}$$

19.
$$\begin{cases} 7x - 2y = -12 \\ x - 2y = 0 \end{cases}$$

20.
$$\begin{cases} 9x + 3y = 6 \\ 2x + 8y = -6 \end{cases}$$

$$21. \begin{cases} 10x + 3y = 1 \\ 12x + 6y = -6 \end{cases}$$

$$22. \begin{cases} -3x + 2y = 14 \\ 2x + 8y = 0 \end{cases}$$

$$23. \begin{cases} 6x + 3y = 3 \\ x + 2y = -4 \end{cases}$$

$$24. \begin{cases} -5x + 3y = -2 \\ 4x - 5y = -1 \end{cases}$$

$$25. \begin{cases} 2x - 4y = -1 \\ 4x - 5y = 4 \end{cases}$$

$$26. \begin{cases} x - 3y = -4 \\ -4x + 2y = -19 \end{cases}$$

$$27. \begin{cases} 8x - 5y = 2 \\ -2x + y = 1 \end{cases}$$

$$28. \begin{cases} x + 3y = 7 \\ x - y = 1 \end{cases}$$

$$29. \begin{cases} 2x - 4y = -3 \\ -x + 3y = 5 \end{cases}$$

$$30. \begin{cases} x - 2y = -2 \\ -3x + 2y = -4 \end{cases}$$

$$31. \begin{cases} 3x - 2y = 0 \\ 4x - 2y = 3 \end{cases}$$

$$32. \begin{cases} 10x - 3y = 2 \\ -4x + 5y = 3 \end{cases}$$

$$33. \begin{cases} -2x + 3y = -2 \\ 2x - y = -4 \end{cases}$$

$$34. \begin{cases} -3x + 2y = 7 \\ 5x - 2y = -7 \end{cases}$$

$$35. \begin{cases} 4x + 2y = 1 \\ x + y = -2 \end{cases}$$

$$36. \begin{cases} 4x + 3y = 3 \\ 2x + 5y = -2 \end{cases}$$

$$37. \begin{cases} \frac{2x - 3y}{4} = x \\ 5(x - y) = 1 + 3(2x - y) \end{cases}$$

$$38. \begin{cases} \frac{x + 3y}{2} = y - 2(x + 1) \\ -4 - (x - y) = \frac{7x - 3y}{5} \end{cases}$$

$$39. \begin{cases} \frac{x + y}{7} = x - y \\ 2(x - 3y) = 3x - y - 19 \end{cases}$$

$$40. \left. \begin{aligned} \frac{-3x - y}{5} &= \frac{y - 2x + 8}{3} \\ 4(3x - 2y) &= 10 - 6y - 5x \end{aligned} \right\}$$

$$41. \left. \begin{aligned} \frac{y - x}{3} &= x + y \\ x + y + 1 &= \frac{y - 2}{4} \end{aligned} \right\}$$

$$42. \left. \begin{aligned} \frac{3x - y}{2} &= \frac{2x - y - 1}{3} \\ 3(y - 5x) &= 8 - 2(-y + 8x) \end{aligned} \right\}$$

$$43. \left. \begin{aligned} \frac{4x + 2}{4} + \frac{2y + 1}{2} &= 1 \\ 4(3x - 2y) - 6(x + y - 1) &= 6 + 4y \end{aligned} \right\}$$

$$44. \left. \begin{aligned} \frac{x - y}{2} + \frac{2y - x}{5} &= \frac{3}{10} \\ 3(x - y) &= 7 - 2(y - 2x) \end{aligned} \right\}$$

$$45. \left. \begin{aligned} \frac{x + y}{3} &= 4 - (y - x) \\ \frac{2y + x}{2} &= 2y + x - 1 \end{aligned} \right\}$$

$$46. \left. \begin{aligned} \frac{3x - y}{2} &= x - y + 1 \\ x + 3y &= 2(x + y + 2) \end{aligned} \right\}$$

$$47. \left. \begin{aligned} 3(x + y - 2) &= x \\ \frac{x - y}{2} &= x - \frac{1}{2} \end{aligned} \right\}$$

$$48. \left. \begin{aligned} 3(x + y) - 4(x + 2y) &= -(y + 4) \\ \frac{2x + 3y}{4} + \frac{x - y}{2} &= 2 + \frac{x}{2} \end{aligned} \right\}$$