

RESUELVE LOS SIGUIENTES SISTEMAS DE ECUACIONES:

$$\begin{cases} -1) \frac{3(x-4)}{5} + \frac{2(y-1)}{3} = \frac{2}{3} \\ \frac{2(y-2)}{5} + \frac{4(x-3)}{5} = \frac{4}{5} \end{cases} \quad (\text{Sol: } 4 \text{ y } 2)$$

$$\begin{cases} 11) \frac{5}{x} + \frac{1}{y} = 2 \\ \frac{15}{x} - \frac{2}{y} = 4 \end{cases} \quad (\text{Sol: } 5 \text{ y } 1)$$

$$\begin{cases} -2) \frac{2(x-4)}{3} + 3y = 3 \\ \frac{3(y-1)}{5} + 2x = 8 \end{cases} \quad (\text{sol: } 4 \text{ y } 1)$$

$$\begin{cases} 12) \frac{x-3}{x-2} + \frac{y}{y-1} = 2 \\ \frac{2x-5}{x-2} - \frac{y-2}{y-1} = 1 \end{cases} \quad (\text{Sol: } 4 \text{ y } 3)$$

$$\begin{cases} -3) \frac{6(x-4)}{5} + \frac{y}{6} = 1 \\ \frac{2(y-6)}{3} + \frac{x}{2} = 2 \end{cases} \quad (\text{Sol: } 4 \text{ y } 6)$$

$$\begin{cases} 13) \frac{3x-3}{x+1} + \frac{y+2}{y} = 4 \\ \frac{2x}{x-3} - \frac{y+14}{y+2} = 1 \end{cases} \quad (\text{Sol: } 5 \text{ y } 2)$$

$$\begin{cases} -4) \frac{2(x-5)}{7} + \frac{y-2}{3} = -\frac{1}{3} \\ \frac{3(y-1)}{5} - \frac{x-2}{3} = -1 \end{cases} \quad (\text{Sol: } 5 \text{ y } 1)$$

$$\begin{cases} 14) \frac{4x-19}{x-4} + \frac{y+1}{y-1} = 5 \\ \frac{x-6}{x-5} + \frac{y}{y-1} = 2 \end{cases} \quad (\text{Sol: } 7 \text{ y } 3)$$

$$\begin{cases} 5) \frac{2(x-3)}{5} + \frac{y}{4} = \frac{1}{2} \\ \frac{3(y-2)}{5} + \frac{x}{9} = \frac{1}{3} \end{cases} \quad (\text{Sol: } 3 \text{ y } 2)$$

$$\begin{cases} 15) \frac{x+1}{x-3} - \frac{y+7}{y} = 0 \\ \frac{2x-6}{x-4} - \frac{y+1}{y-1} = \frac{4}{8} \end{cases} \quad (\text{Sol: } 7 \text{ y } 7)$$

$$\begin{cases} 6) \frac{2(y-3)}{3} + x = 4 \\ \frac{3(x-3)}{2} + y = \frac{9}{2} \end{cases} \quad (\text{Sol: } 4 \text{ y } 3)$$

$$\begin{cases} 16) \frac{x+1}{x-3} + \frac{2y-5}{y-2} = 3 \\ \frac{2x-5}{x-4} - \frac{y+1}{y-1} = 1 \end{cases} \quad (\text{Sol: } 7 \text{ y } 3)$$

$$\begin{cases} 7) \frac{3}{x} + \frac{5}{y} = 2 \\ \frac{6}{x} - \frac{1}{y} = \frac{9}{3} \end{cases} \quad (\text{Sol: } 3 \text{ y } 5)$$

$$\begin{cases} 17) \frac{13}{2x+y} + \frac{2}{x-y} = 2 \\ \frac{26}{2x+y} - \frac{1}{x-y} = \frac{3}{2} \end{cases} \quad (\text{Sol: } 5 \text{ y } 3)$$

$$\begin{cases} 8) \frac{5}{x} + \frac{2}{y} = 2 \\ \frac{10}{x} - \frac{1}{y} = \frac{3}{2} \end{cases} \quad (\text{Sol: } 5 \text{ y } 2)$$

$$\begin{cases} 18) \frac{7}{3x+y} + \frac{4}{x+2y} = 2 \\ \frac{14}{3x+y} + \frac{2}{x+2y} = \frac{5}{2} \end{cases} \quad (\text{Sol: } 2 \text{ y } 1)$$

$$\begin{cases} 9) \frac{4}{x} + \frac{3}{y} = 3 \\ \frac{2}{x} + \frac{6}{y} = 3 \end{cases} \quad (\text{Sol: } 2 \text{ y } 3)$$

$$\begin{cases} 19) \frac{7}{x+3y} + \frac{15}{4x-y} = 2 \\ \frac{14}{x+3y} - \frac{15}{2(4x-y)} = \frac{3}{2} \end{cases} \quad (\text{Sol: } 4 \text{ y } 1)$$

$$\begin{cases} 10) \frac{7}{x} + \frac{4}{y} = 2 \\ \frac{14}{x} = \frac{2}{y} = \frac{2}{2} \end{cases} \quad (\text{Sol: } 7 \text{ y } 4)$$

$$\begin{cases} 20) \frac{22}{x+3y} + \frac{8}{2x+5y} = \frac{5}{2} \\ \frac{11}{x+3y} + \frac{16}{2x+5y} = 2 \end{cases} \quad (\text{Sol: } 5 \text{ y } 2)$$

Resol pel mètode de substitució

1) $\left. \begin{array}{l} 2x + 5y = 47 \\ \star 7x - 5y = 52 \end{array} \right\}$	5) $\left. \begin{array}{l} 6x + 7y = 23 \\ \checkmark 2x - 3y = 13 \end{array} \right\}$
2) $\left. \begin{array}{l} 2x + 5y = 39 \\ \star 9x - 26y = -67 \end{array} \right\}$	6) $\left. \begin{array}{l} 3x + y = 1 \\ \star 4x + 2y = 6 \end{array} \right\}$
3) $\left. \begin{array}{l} \star 5x + y = 47 \\ \star 7x + 2y = 73 \end{array} \right\}$	7) $\left. \begin{array}{l} \star 3x - 2y = -14 \\ \star x + y = 12 \end{array} \right\}$
4) $\left. \begin{array}{l} 8x - 25y = -3 \\ / x - y = 6 \end{array} \right\}$	8) $\left. \begin{array}{l} \star x - \frac{1}{2}y = 9 \\ 2x + y = 82 \end{array} \right\}$

Resol pel mètode d'igualació

1) $\left. \begin{array}{l} \star x - y = -11 \\ \star 3x - y = -1 \end{array} \right\}$	5) $\left. \begin{array}{l} \star 6x - 5y = 33 \\ \star 3x + 3y = 33 \end{array} \right\}$
2) $\left. \begin{array}{l} \star 2x - y = -13 \\ \star x + 3y = 116 \end{array} \right\}$	6) $\left. \begin{array}{l} \star 3x + 5y = 195 \\ \star 18x - 14y = 378 \end{array} \right\}$
3) $\left. \begin{array}{l} \star 3x - 2y = 2 \\ \star 2x + y = 13 \end{array} \right\}$	7) $\left. \begin{array}{l} / 4x + 5y = 373 \\ / 6x + 2y = 202 \end{array} \right\}$
4) $\left. \begin{array}{l} \star 3x + \frac{1}{4}y = 11 \\ \star 2x + y = 14 \end{array} \right\}$	8) $\left. \begin{array}{l} / 14x + 6y = 46 \\ / 5x + 2y = 16 \end{array} \right\}$

SISTEMES D'EQUATIONS

1) $\begin{cases} 4x - 5y = 2 \\ 5x + 3y = 21 \end{cases}$	6) $\begin{cases} x - 6y = 2 \\ -8x + 3y = 29 \end{cases}$	11) $\begin{cases} 14x - 3y = 39 \\ 6x + 17y = 35 \end{cases}$
2) $\begin{cases} 22x + 15y = 9 \\ 18x + 25y = 71 \end{cases}$	7) $\begin{cases} -11x + 2y = 67 \\ 2x + 5y = 20 \end{cases}$	12) $\begin{cases} 9x - 8y = 1 \\ 12x - 10y = 1 \end{cases}$
3) $\begin{cases} 3x + 7y = 2 \\ 7x + 8y = -2 \end{cases}$	8) $\begin{cases} 5x - 8y = 7 \\ x - y = 1 \end{cases}$	13) $\begin{cases} 5x - 7y = 20 \\ 3x - 2y = 12 \end{cases}$
4) $\begin{cases} 15x + 2y = 27 \\ 3x + 7y = 45 \end{cases}$	9) $\begin{cases} 3x + 2y = 23 \\ x + y = 8 \end{cases}$	14) $\begin{cases} 11x - 13y = 23 \\ 13x - 11y = 25 \end{cases}$
5) $\begin{cases} 2x - 49y = 700 \\ 49x + y = 357 \end{cases}$	10) $\begin{cases} 8x - y = 34 \\ x + 8y = 53 \end{cases}$	15) $\begin{cases} 15x + 7y = 29 \\ 9x + 15y = 39 \end{cases}$
SISTEMES + DIFÍCILS		
$\begin{cases} \frac{x}{3} = \frac{y}{4} \\ 3x - 2y = 2 \end{cases}$	$\begin{cases} x - \frac{y+1}{2} = 3 \\ 2(x-8) + y = 17 \end{cases}$	$\begin{cases} 2(x-3) + 5(y-2) = 7 \\ \frac{4-x}{5} + \frac{y}{3} = 1 \end{cases}$

Resol pel mètode de reducció

1) $\left. \begin{array}{l} 2x + 3y = 19 \\ 3x + 2y = 21 \end{array} \right\}$	5) $\left. \begin{array}{l} 4x + 3y = 30 \\ x = 3y \end{array} \right\}$
2) $\left. \begin{array}{l} 3x + 8y = 93 \\ 6x - 7y = -21 \end{array} \right\}$	6) $\left. \begin{array}{l} x + \frac{1}{4}y = 5 \\ \frac{1}{3}x + 2y = 17 \end{array} \right\}$
3) $\left. \begin{array}{l} 9x - 4y = -1 \\ 6x + 10y = -26 \end{array} \right\}$	7) $\left. \begin{array}{l} 1 + x = 4y \\ 2(1 + x) = 18 - y \end{array} \right\}$
4) $\left. \begin{array}{l} 2x + 5y = 39 \\ 9x - 26y = -67 \end{array} \right\}$	8) $\left. \begin{array}{l} x + \frac{1}{3}y = -6 \\ \frac{3}{2}x + y = -12 \end{array} \right\}$

Sistemes d'equacions + difícils

1) $\left. \begin{array}{l} \frac{3(x-4)}{5} + \frac{2(y-1)}{3} = \frac{2}{3} \\ \frac{2(y-2)}{5} + \frac{4(x-3)}{5} = \frac{4}{5} \end{array} \right\}$	5) $\left. \begin{array}{l} \frac{3}{x} + \frac{5}{y} = 2 \\ \frac{6}{x} - \frac{1}{y} = \frac{9}{5} \end{array} \right\}$
2) $\left. \begin{array}{l} \frac{2(x-4)}{3} + 3y = 3 \\ \frac{3(y-1)}{5} + 2x = 0 \end{array} \right\}$	6) $\left. \begin{array}{l} \frac{5}{x} + \frac{2}{y} = 2 \\ \frac{10}{x} - \frac{1}{y} = -\frac{3}{2} \end{array} \right\}$
3) $\left. \begin{array}{l} \frac{6(x-4)}{5} + \frac{y}{6} = 1 \\ \frac{2(y-6)}{3} + \frac{x}{2} = 2 \end{array} \right\}$	7) $\left. \begin{array}{l} \frac{7}{x} + \frac{4}{y} = 2 \\ \frac{14}{x} - \frac{2}{y} = \frac{3}{2} \end{array} \right\}$
4) $\left. \begin{array}{l} \frac{2(x-5)}{7} + \frac{y-2}{3} = -\frac{1}{3} \\ \frac{3(y-1)}{5} - \frac{x-2}{3} = -1 \end{array} \right\}$	8) $\left. \begin{array}{l} \frac{5}{x} + \frac{1}{y} = 2 \\ \frac{15}{x} - \frac{2}{y} = 3 \end{array} \right\}$

1)	$\begin{cases} 2x + y = 5 \\ x + 3y = 5 \end{cases}$	16)	$\begin{cases} 5x - 7y = 0 \\ 7x + 5y = 74 \end{cases}$
2)	$\begin{cases} 3x + 2y = 7 \\ 5x + y = 7 \end{cases}$	17)	$\begin{cases} 21x - 50y = 60 \\ 28x - 27y = 199 \end{cases}$
3)	$\begin{cases} 4x - y = 10 \\ -2x - y = 4 \end{cases}$	18)	$\begin{cases} 39x - 8y = 99 \\ 52x - 15y = 80 \end{cases}$
4)	$\begin{cases} 7x - 3y = 31 \\ 9x - 5y = 41 \end{cases}$	19)	$\begin{cases} 5x - 7y = -21 \\ 21x - 9y = 75 \end{cases}$
5)	$\begin{cases} x + y = 8 \\ x - y = 2 \end{cases}$	20)	$\begin{cases} -5x + 6y = 18 \\ 12x - 9y = 0 \end{cases}$
6)	$\begin{cases} x + y = 3 \\ 2x - 2y = 3 \end{cases}$	21)	$\begin{cases} 8x - 5y = 0 \\ 13x - 8y = 1 \end{cases}$
7)	$\begin{cases} 2x + 2y = 9 \\ 2x - 2y = 9 \end{cases}$	22)	$\begin{cases} 3x - 7y = 0 \\ -5x + 12y = -1 \end{cases}$
8)	$\begin{cases} x - 10y = 5 \\ 2x + 10y = 40 \end{cases}$	23)	$\begin{cases} 19x + 17y = 0 \\ -2x - y = 53 \end{cases}$
9)	$\begin{cases} 2x + 3y = 28 \\ 3x + 2y = 27 \end{cases}$	24)	$\begin{cases} 93x + 15y = 123 \\ 15x + 93y = 201 \end{cases}$
10)	$\begin{cases} 4x - 3y = 14 \\ 3x - 4y = 0 \end{cases}$	25)	$\begin{cases} x - y = 2 \\ -3x + 5y = 0 \end{cases}$
11)	$\begin{cases} 7x - 3y = -6 \\ x + 5y = 10 \end{cases}$	26)	$\begin{cases} 7x + 2y = 8 \\ 50x + 9y = -1 \end{cases}$
12)	$\begin{cases} x - y = 6 \\ x + y = 80 \end{cases}$	27)	$\begin{cases} x + y = 9 \\ x - y = 1 \end{cases}$
13)	$\begin{cases} 3x + 2y = 32 \\ 3x - 4y = -10 \end{cases}$	28)	$\begin{cases} x - y = 6 \\ x + y = 80 \end{cases}$
14)	$\begin{cases} 2x + y = 7 \\ 5x - 3y = 1 \end{cases}$	29)	$\begin{cases} 3x + 2y = 38 \\ 5x - 7y = 22 \end{cases}$
15)	$\begin{cases} 6x + 7y = 79 \\ 5x - 11y = 49 \end{cases}$	30)	$\begin{cases} 93 - 21x = 6y \\ 60 - 10x = 6y \end{cases}$