

$$1) \begin{cases} x - 3y = 6 \\ x + 7y = 26 \end{cases}$$

$$2) \begin{cases} \frac{x+y}{2} - \frac{x-y}{2} = 2 \\ 3x - 10y = 16 \end{cases}$$

$$3) \begin{cases} 2x - y = 14 \\ \frac{4}{3}x - \frac{1}{3}y = 4 + \frac{2}{3} \end{cases}$$

$$4) \begin{cases} 3y - 2x = -4 \\ 2(x-5) + 6(y-2) = 0 \end{cases}$$

$$5) \begin{cases} 12 - x + y + 1 = 10 \\ 3(5+x) - 6(y+7) = 3 \end{cases}$$

$$6) \begin{cases} 4x - 2y = 8 \\ x + y = 5 \end{cases}$$

$$7) \begin{cases} x - 7(y-1) = 44 \\ 2x - 3y - 19 = 0 \end{cases}$$

$$8) \begin{cases} x - 2(y-4) = 6 \\ x - 6 + 2y = 8 \end{cases}$$

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

$$10) \begin{cases} \frac{x}{3} + \frac{y}{4} = x - \frac{5}{12} \\ \frac{y}{3} - \frac{x}{5} = \frac{1}{15}(x+y) \end{cases}$$

$$11) \begin{cases} x - 3y = 7 \\ 2x + 9y = 29 \end{cases}$$

$$12) \begin{cases} x - y + 2 = 0 \\ 2x - 3y + 7 = 0 \end{cases}$$

$$13) \begin{cases} 2(x-4) - 3(y-7) = 9 \\ 2x + 4(y+1) = -4 \end{cases}$$

$$14) \begin{cases} \frac{x-1}{3} + \frac{y-2}{4} - 1 = x \\ 3y - 8x = 14 \end{cases}$$

$$15) \begin{cases} \frac{x-y}{3} - \frac{x+y}{15} = 0 \\ 7x - \frac{17y-4}{2} = 14 \end{cases}$$

$$16) \begin{cases} \frac{\frac{x-y}{2} + \frac{x+y}{5}}{\frac{x+y}{10} - \frac{y-x}{2}} = \frac{3}{2} \\ \frac{x}{3} + \frac{y}{4} - 5 = \frac{3(x-y)}{5} + \frac{3y-2}{10} - \frac{23}{5} \end{cases}$$

$$17) \begin{cases} \frac{x+y-1}{4} - \frac{x-y+1}{3} = 1 \\ \frac{2(x-1)+y}{5} + \frac{6(x+y)-8}{4} = 6 \end{cases}$$

$$18) \begin{cases} 2(x-3) + 5\left(\frac{y}{2} - 1\right) + 1 = 0 \\ \frac{6(x+1)}{2} - \frac{(y+x)5-2}{9} = 1 \end{cases}$$

$$19) \begin{cases} x - y - 1 + \frac{x+y+1}{4} = \frac{x-y}{7} \\ \frac{2x-3y+5}{6} - \frac{4x-4y-1}{8} = 1 \end{cases}$$

Soluciones:

$$1) x = 12, y = 2$$

$$2) x = 12, y = 2$$

$$3) x = 0, y = -14$$

$$4) x = 5, y = 2$$

$$5) x = -4, y = 7$$

$$6) x = 3, y = 2$$

$$7) x = 2, y = -5$$

$$8) x = 6, y = 4$$

$$9) x = \frac{728}{19}, y = \frac{508}{19}$$

$$10) x = 1, y = 1$$

$$11) x = 10, y = 1$$

$$12) x = 1, y = 3$$

$$13) x = -\frac{20}{7}, y = -\frac{4}{7}$$

$$14) \text{ Incompatible.}$$

$$15) x = 9, y = 6$$

$$16) x = 2, y = \frac{4}{3}$$

$$17) x = \frac{53}{30}, y = \frac{89}{30}$$

$$18) x = 0, y = 4$$

$$19) x = -\frac{1}{4}, y = -\frac{115}{68}$$