

16/9/2021

$$73 \quad \begin{cases} y + \frac{1}{4} = \frac{1}{2}x - \frac{1}{4} \\ 2x = 4y + 2 \end{cases}$$

$$\frac{2-1}{4} = \frac{1}{4}$$

$$\begin{cases} y + \frac{1}{4} = \frac{1}{2}(2y+1) - \frac{1}{4} \\ x = 2y + 1 \end{cases} \quad \begin{cases} \cancel{y} + \frac{1}{4} = \cancel{y} + \frac{1}{2} - \frac{1}{4} \\ x = 2y + 1 \end{cases}$$

$$\begin{cases} \frac{1}{4} = \frac{1}{4} \\ x = 2y + 1 \end{cases} \quad \text{SISTEMA INDETERMINATO}$$

$$66 \quad \begin{cases} -2(2y - x) = 3(x - y - 1) \\ \left(x - \frac{1}{2}\right)^2 - 2y = 1 - (2 - x)(2 + x) \end{cases} \quad \left[\left(\frac{11}{4}, \frac{1}{4}\right)\right]$$

$$\begin{cases} -4y + 2x = 3x - 3y - 3 \\ x^2 + \frac{1}{4} - x - 2y = 1 - (4 - x^2) \end{cases} \quad \begin{cases} x + y = 3 \\ \cancel{x^2} + \frac{1}{4} - x - 2y = 1 - 4 + \cancel{x^2} \end{cases}$$

$$\begin{cases} x = 3 - y \\ x + 2y = \frac{1}{4} + 3 \end{cases} \quad \begin{cases} x = 3 - y \\ 3 - y + 2y = \frac{13}{4} \end{cases} \quad \begin{cases} x = 3 - y \\ y = \frac{13}{4} - 3 = \frac{1}{4} \end{cases}$$

$$\begin{cases} x = 3 - \frac{1}{4} = \frac{11}{4} \\ y = \frac{1}{4} \end{cases} \quad \begin{cases} x = \frac{11}{4} \\ y = \frac{1}{4} \end{cases}$$

$$\boxed{\left(\frac{11}{4}, \frac{1}{4}\right)}$$

# METODO DI RIDUZIONE

es. 106

**117**

$$\begin{cases} 2x - y = -1 \\ x + y = 10 \end{cases}$$

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$$3x // = 9$$

$$\begin{cases} 3x = 9 \\ x + y = 10 \end{cases} \quad \begin{cases} x = 3 \\ 3 + y = 10 \end{cases}$$

$$\begin{cases} x = 3 \\ y = 7 \end{cases}$$

$$\boxed{(3, 7)}$$

**120**

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

MOLTIPLICO  
PER -1

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

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$$2x // = 2$$

$$\begin{cases} 2x = 2 \\ x + 2y = 4 \end{cases}$$

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

$$\begin{cases} x = 1 \\ 2y = 3 \end{cases} \quad \begin{cases} x = 1 \\ y = \frac{3}{2} \end{cases}$$

$$\boxed{\left(1, \frac{3}{2}\right)}$$

**137**

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

-3

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

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$$\parallel -12y = -2$$

$$\begin{cases} -12y = -2 \\ x + 2y = 2 \end{cases}$$

$$\begin{cases} y = \frac{-2}{-12} = \frac{1}{6} \\ x + 2 \cdot \frac{1}{6} = 2 \end{cases}$$

$$\begin{cases} y = \frac{1}{6} \\ x = 2 - \frac{1}{3} = \frac{5}{3} \end{cases}$$

$$\begin{cases} x = \frac{5}{3} \\ y = \frac{1}{6} \end{cases}$$

$$\left( \frac{5}{3}, \frac{1}{6} \right)$$