268 
$$\begin{cases} (x+y)^2 = (x-y)^2 - y + 4x(y-1) \\ 2x+y=3 \end{cases} \left[ \left( -\frac{3}{2}, 6 \right) \right] = \frac{1}{2}$$

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

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

269 
$$\begin{cases} (x-1)(x+2) = x^2 - y - 2\\ \frac{1}{2}(x+y) = -\frac{1}{3}(x-y-1) \end{cases}$$

$$y(x+2) = x^2 - y - 2 y) = -\frac{1}{3}(x-y-1) \qquad \left[ \left( \frac{1}{2}, -\frac{1}{2} \right) \right]$$

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

ESEMPIO

$$\begin{cases} \alpha \times + b \cdot y = c \\ \alpha' \times + b' y = c' \end{cases}$$

$$D_{x} = \begin{vmatrix} 3 & 1 \\ -3 & -3 \end{vmatrix} = -10$$

$$D_{g} = \begin{vmatrix} a & c \\ a' & c' \end{vmatrix} = ac' - a'c$$

$$\begin{cases} x = \frac{Dx}{D} \\ y = \frac{Dy}{D} \end{cases}$$

$$\begin{cases} 2x = 3(y+1) & \text{metals si Gramer} \\ x - 2y = -1 & \text{metals si Gramer} \end{cases}$$

Risolvere col

$$\begin{cases} 2x = 3y + 3 & (2x - 3y = 3) \\ x - 2y = -1 & (x - 2y = -1) \end{cases}$$

$$D = \begin{vmatrix} 2 & -3 \\ -2 & -2 \end{vmatrix} = 2(-2) - (-3) \cdot 1 = -4 + 3 = -1$$

$$D_{x} = \begin{vmatrix} 3 & -3 \\ -1 & -2 \end{vmatrix} = 3(-2) - (-3)(-1) = -6 - 3 = -9$$

$$D_{y} = \begin{bmatrix} 2 & 3 \\ 1 & -1 \end{bmatrix} = 2(-1) - 3 \cdot 1 = -2 - 3 = -5$$

$$\left( \begin{array}{c} x = \frac{Dx}{D} = \frac{-9}{-1} = 9 \end{array} \right)$$

$$y = \frac{Dy}{D} = \frac{-5}{-1} = 5$$

$$\begin{cases} 4x - 6y = -1\\ \frac{1}{3}x - \frac{1}{2}y = 2 \end{cases}$$

$$D = \frac{1}{3} = 4\left(-\frac{1}{2}\right) - \left(-6\right) \cdot \frac{1}{3} = -2 + 2 = 0$$
il sisteme
$$= \frac{1}{3} = \frac{1}{2} = 4\left(-\frac{1}{2}\right) - \left(-6\right) \cdot \frac{1}{3} = -2 + 2 = 0$$
il sisteme
$$= \frac{1}{3} = \frac{1}{2} = \frac{1}{2}$$

$$D_{x} = \begin{vmatrix} -1 & -6 \\ = (-1)(-\frac{1}{2}) - (-6) \cdot 2 = \frac{1}{2} + 12 = \frac{25}{2} \neq 0$$

$$\begin{vmatrix} 2 & -\frac{1}{2} \\ & & \end{vmatrix}$$

$$| Prossible$$

## relola

$$D_{x} = 0$$
 of  $D_{y} = 0$   $D_{y} = 0$   $D_{x} = 0$   $D_{y} = 0$   $D$ 

$$\begin{cases} 2x - y + 1 = 0 \\ 10x - 5y + 5 = 0 \end{cases}$$

$$|2x - y = -1|$$
  
 $|10x - 5y = -5|$ 

$$\begin{cases} 2x - y = -1 \\ 10x - 5y = -5 \end{cases} = \begin{vmatrix} 2 & -1 \\ 10 & -5 \end{vmatrix} = -10 + 10 = 0$$

$$D_{x=} \begin{vmatrix} -1 & -1 \\ -5 & -5 \end{vmatrix} = 5 - 5 = 0$$

$$D_{y} = \begin{vmatrix} 2 & -1 \\ -5 \end{vmatrix} = -10 + 10 = 0$$

## ATTENZIOUE

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

$$D = \begin{vmatrix} 1 & 2 \\ -1.0 - 2.2 = -4 \end{vmatrix}$$

$$D_{x} = \begin{bmatrix} 1 & 2 \\ 2 & 0 \end{bmatrix} = -4$$
 $D_{y} = \begin{bmatrix} 1 & 1 \\ 2 & 2 \end{bmatrix} = 1 \cdot 2 - 1 \cdot 2 = 0$ 

$$D_{y} = \begin{bmatrix} 1 & 1 \\ 2 & 2 \end{bmatrix} = 1 \cdot 2 - 1 \cdot 2 = 0$$

$$x = \frac{Dx}{D} = \frac{-4}{-4} = 1$$
  $y = \frac{0}{-4} = 0$   $\begin{cases} x = 1 \\ y = 0 \end{cases}$ 

$$\begin{cases} x = 1 \\ y = 0 \end{cases}$$

328 
$$\begin{cases} x = y - z + 1 \\ z = 2x - y \\ y = 2x + 1 \end{cases}$$
 [(-3, -5, -1)]

$$3z = y + 2$$
  $y = 3z - 2$    
 $-y = -2z + 3$   $-(3z - 2) = -2z + 3$   $(-3z + 2) = -2z + 3$ 

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