

Sistema di secondo grado:

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

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

$$\begin{cases} x=2y-1 \\ 4y^2+1-4y-2y^2-2y+1=10 \end{cases}$$

$$\begin{cases} x=2y-1 \\ 2y^2-6y-8=0 \end{cases}$$

$$\begin{cases} x=2y-1 \\ y^2-3y-4=0 \end{cases}$$

$$\begin{cases} x=7 \\ y=4 \end{cases}$$

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

Sistema fratto a tre incognite:

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

$$\begin{cases} \frac{2x+2}{2(y+z)} = \frac{3y+3z}{2(y+z)} \\ -\frac{7y+14}{7(x+z)} = \frac{5x+5z}{7(x+z)} \\ \frac{z+1}{3x+y} = \frac{6x+2y}{3x+y} \end{cases}$$

C.E.

$$y \neq -z$$

$$x \neq -z$$

$$y \neq -3x$$

$$\begin{cases} \frac{2x-3y-3z}{7y+5x+5z} = \frac{-2}{14} \\ \frac{6x+2y-z}{3x+y} = \frac{1}{3} \end{cases}$$

$$\begin{cases} 2x-3y-18x-6y+3=-2 \\ 7y+5x+30x+10y-5=14 \\ z=6x+2y-1 \end{cases}$$

$$\begin{cases} 16x+9y=5 \\ 35x+17y=19 \\ z=6x+2y-1 \end{cases}$$

$$D=16*17-9*35=272-315=-43$$

$$D_x=5*17-9*19=85-171=-86$$

$$D_y=16*19-5*35=304-175=129$$

$$X = D_x/D = -86/-43 = 2$$

$$Y = D_y/D = 129/-43 = -3$$

$$Z = 12-6-1 = 5$$