



SISTEMAS DE ECUACIONES DE 3X3

Resuelva el sistema de ecuaciones por el método de eliminación Gaussiana

$$\begin{cases} x - 2y + 3z = 7 \\ 2x + y + z = 4 \\ -3x + 2y - 2z = -10 \end{cases}$$

$$\left(\begin{array}{ccc|c} +1 & -2 & +3 & 7 \\ +2 & +1 & +1 & 4 \\ -3 & +2 & -2 & -10 \end{array} \right)$$

$$\div 3$$

$$\div (-5)$$

$$F_3 = 3F_1 + F_3$$

$$F_2 = 2F_1 - F_2$$

$$\left(\begin{array}{ccc|c} +1 & -2 & +3 & 7 \\ 0 & -5 & +5 & 10 \\ 0 & -4 & +7 & 11 \end{array} \right)$$

$$F_3 = 4F_2 + F_3$$

$$1$$

$$\left(\begin{array}{ccc|c} 1 & -2 & +3 & 7 \\ 0 & +1 & -1 & -2 \\ 0 & -4 & +7 & 11 \end{array} \right)$$

$$-1$$

$$2$$

$$\left(\begin{array}{ccc|c} 1 & -2 & +3 & 7 \\ 0 & +1 & -1 & -2 \\ 0 & 0 & +3 & 3 \end{array} \right)$$

$$\left(\begin{array}{ccc|c} 1 & -2 & +3 & 7 \\ 0 & +1 & -1 & -2 \\ 0 & 0 & +1 & 1 \end{array} \right)$$

$$x =$$

$$y =$$

$$z =$$