Matriz de Igualdade

$$\begin{pmatrix} x+y & 3 \\ 1 & x-y \end{pmatrix} = \begin{pmatrix} 10 & 3 \\ 1 & 2 \end{pmatrix}$$

$$x+y = 10$$
$$\underline{x-y = 2} \quad +$$
$$2x = 12$$

$$x = \frac{12}{2}$$

$$\underline{x = 6}$$

$$x+y = 10$$
$$6 + y = 10-6$$
$$y = 4$$

$$x = 6$$
$$y = 4$$

$$\begin{bmatrix} 3 & 0 & b \\ x-1 & 4 & 0 \end{bmatrix} = \begin{bmatrix} x-2 & -5 & 1 \\ 4 & y & z+3 \end{bmatrix}$$

$$3 = x-2$$
$$3+2 = x$$
$$\boxed{5 = x}$$

$$\boxed{a = -5}$$
$$\boxed{b = 1}$$

$$x-1 = 4$$
$$\boxed{x = 5}$$

$$0 = z+3$$
$$0-3 = z$$
$$\boxed{-3 = z}$$