$$\begin{cases} x - y = 9 \\ 2x + y - 2 = 1 \\ x + 2y + 22 \end{cases} \begin{pmatrix} 1 - 1 & 0 \\ 2 & 1 - 1 \\ 1 & 2 \end{pmatrix} \begin{pmatrix} x \\ Y \\ 2 \end{pmatrix} = \begin{pmatrix} 9 \\ 1 \\ 2 \end{pmatrix}$$

$$R_{II} \rightarrow R_{II} - 2R_{I} = (2 1 - 1 | 1) - 2(1, -1, 0 | 0)$$

$$= (0, 3, -1 | 1) R_{II} \sim 000$$

$$R \coprod -2R_{\coprod} - P_{I} = (122|2) - (1-70|0)$$

$$= (032|2)$$

$$R \coprod NUOVA$$

PIII -> PIII = (0 3 2/2) - (0 3 -1 | 1)

IL SITEMA FIVENTA:

$$\begin{cases} x - Y = 0 \\ 3y - 2 = 1 \\ 3z = 1 \end{cases}$$

$$\begin{pmatrix} 1 & -1 & 0 \\ 0 & 3 & -1 \end{pmatrix} \begin{pmatrix} x \\ y \end{pmatrix} = \begin{pmatrix} 1 \\ 1 \end{pmatrix} w = \begin{pmatrix} x \\ y \end{pmatrix} b = \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix}$$

$$A\left(\frac{\times}{2}\right) = \begin{pmatrix} 0\\1\\1 \end{pmatrix} \sim \sqrt{8} Aw = b$$

A INVENTIBLE
$$A = b$$

$$A = b$$

$$A = A = A = A$$

$$A = A$$

$$\begin{cases} 3(7) = 3(1) & \bar{A} \\ 3(\bar{A}) = \bar{A} \end{cases} = \bar{A} \cdot \begin{pmatrix} 3 \\ 6 \end{pmatrix}$$

$$\begin{cases} 3 \begin{pmatrix} 3 \end{pmatrix} = 3 \begin{pmatrix} 1 \end{pmatrix} & \tilde{A} & 3 \begin{pmatrix} A \\ A \end{pmatrix} \\ \tilde{A} & \tilde{A} & \tilde{A} \\ \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} \\ \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} \\ \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} \\ \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} \\ \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} \\ \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} \\ \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} \\ \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} \\ \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} \\ \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} \\ \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} \\ \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} \\ \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} \\ \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} \\ \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} \\ \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} \\ \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} \\ \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} \\ \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} \\ \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} \\ \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} \\ \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} \\ \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} \\ \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} \\ \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} \\ \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} \\ \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} \\ \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} \\ \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} \\ \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} \\ \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} \\ \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} \\ \tilde{A} & \tilde{A} & \tilde{A} &$$

