$$\overrightarrow{X} = X_1 \overrightarrow{e}_1 + X_2 \overrightarrow{e}_2 = \overrightarrow{X}_1 \overrightarrow{e}_1 + \overrightarrow{X}_2 \overrightarrow{e}_2$$

$$\dot{c}_{i}:(3,2),(1,0)$$
 $\dot{c}_{i}:(3,1),(31)$

$$\begin{pmatrix} \zeta \\ S = \begin{pmatrix} 3 \\ 2 \end{pmatrix}$$

$$\begin{cases} 3 \times 1 + 1 \times 2 = 9 \\ 2 \times 1 + 1 \times 2 = 9 \end{cases} = \begin{cases} x_1 = 9_1 - 9_2 \\ x_2 = -2y_1 + 3y_2 \end{cases}$$

$$S' = \begin{pmatrix} 1 & -1 \\ -2 & 3 \end{pmatrix}$$