

$$\begin{cases} x+y-z=0 \\ y+z+w=0 \end{cases}$$

$$\begin{bmatrix} 1 & 0 & -2 & -1 \\ 0 & 1 & 1 & 1 \end{bmatrix}$$

$$\left\{ \begin{bmatrix} 2 \\ -1 \\ 1 \\ 0 \end{bmatrix}, \begin{bmatrix} 1 \\ -1 \\ 0 \\ 1 \end{bmatrix} \right\}$$

