$$\begin{bmatrix} 2 & 1 & 3 \\ -1 & 1 & -3 \\ 3 & -2 & 8 \end{bmatrix}$$
 Smap with R_2
$$\begin{bmatrix} -1 & 1 & -3 \\ 2 & 1 & 3 \\ 3 & -2 & 8 \end{bmatrix} \cdot -1$$

$$\begin{bmatrix} -1 & 1 & -3 \\ 2 & 1 & 3 \\ 3 & -2 & 8 \end{bmatrix} + 3R_1$$

There excits a non-pirot volumn : the vertor are dependent.

þ)

All the columns are pirot columns: the vectors are independent.