

$$\mathbb{R}_3^{\mathcal{U}} \ni \left\{ \begin{array}{l} \mathbb{R}_3^{\mathcal{U}} \\ L_1 = \begin{array}{c|c|c} 0 & -1 & 0 \\ \hline 1 & 0 & 0 \\ \hline 0 & 0 & 0 \end{array} \\ L_2 = \begin{array}{c|c|c} 0 & 0 & 1 \\ \hline 0 & 0 & 0 \\ \hline -1 & 0 & 0 \\ \hline 0 & 0 & 0 \end{array} \\ L_3 = \begin{array}{c|c|c} 0 & 0 & -1 \\ \hline 0 & 1 & 0 \end{array} \end{array} \right.$$

$$L_i \times L_j = L_k$$