

$$\begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} = \begin{pmatrix} -4 & 4 & 0 \\ 4 & -4 & 0 \\ 0 & 0 & 0 \end{pmatrix} \vec{x}_{\text{E12}}$$

$$\vec{x}_{\text{E12}} = s \begin{pmatrix} 1 \\ 1 \\ 0 \end{pmatrix} + t \begin{pmatrix} 0 \\ 0 \\ 1 \end{pmatrix}$$