$\longrightarrow \mathbf{e}_1 = 1$

$\mathbf{e}_2 = (0,1)$

$\mathbf{e}_1 = (1,0)$

$\mathbf{e}_3 = (0,0,1)$

$\mathbf{e}_2 = (0,1,0)$

$\mathbf{e}_1 = (1,0,0)$