

$$\begin{bmatrix} \overrightarrow{X} \end{bmatrix} = \begin{bmatrix} P \end{bmatrix} \begin{bmatrix} \overrightarrow{X} \\ B \end{bmatrix} = \begin{bmatrix} 0 & 0 & 1 \\ 0 & 1 & 0 \\ 0 & 0 & 3 \end{bmatrix} = \begin{bmatrix} 3 & 1 \\ 2 & 2 \\ 1 & 0 & 0 \end{bmatrix}$$

$$\begin{array}{c|c} & \longrightarrow & \boxed{3} \\ & \nearrow & \times_{c} = \boxed{2} \\ & \boxed{1} \end{array}$$