$(\Rightarrow)$   $\overrightarrow{w} = \times^{-1} \cdot \overrightarrow{y}$ But X dimension is (4x2), meaning X is not a square matrix, so X is not invertible =) (annot solve the equation =) if and  $\vec{x}_0$ ,  $\vec{x}_1$  cannot establish a linear combination =) y and zo, z's ove not in the same plane

Find the prosection of instead.

3) Since 
$$\begin{cases} (\vec{x}_0 \cdot \vec{e}) = 90^{\circ} \\ (\vec{z}_1 ; \vec{e}) = 90^{\circ} \end{cases}$$

$$\begin{cases} \vec{x}_0 \cdot \vec{e} = 0 \\ \vec{x}_1 \cdot \vec{e} = 0 \end{cases}$$

$$\begin{cases} \vec{x}_1 \cdot \vec{e} = 0 \\ \vec{x}_1 \cdot \vec{e} = 0 \end{cases}$$

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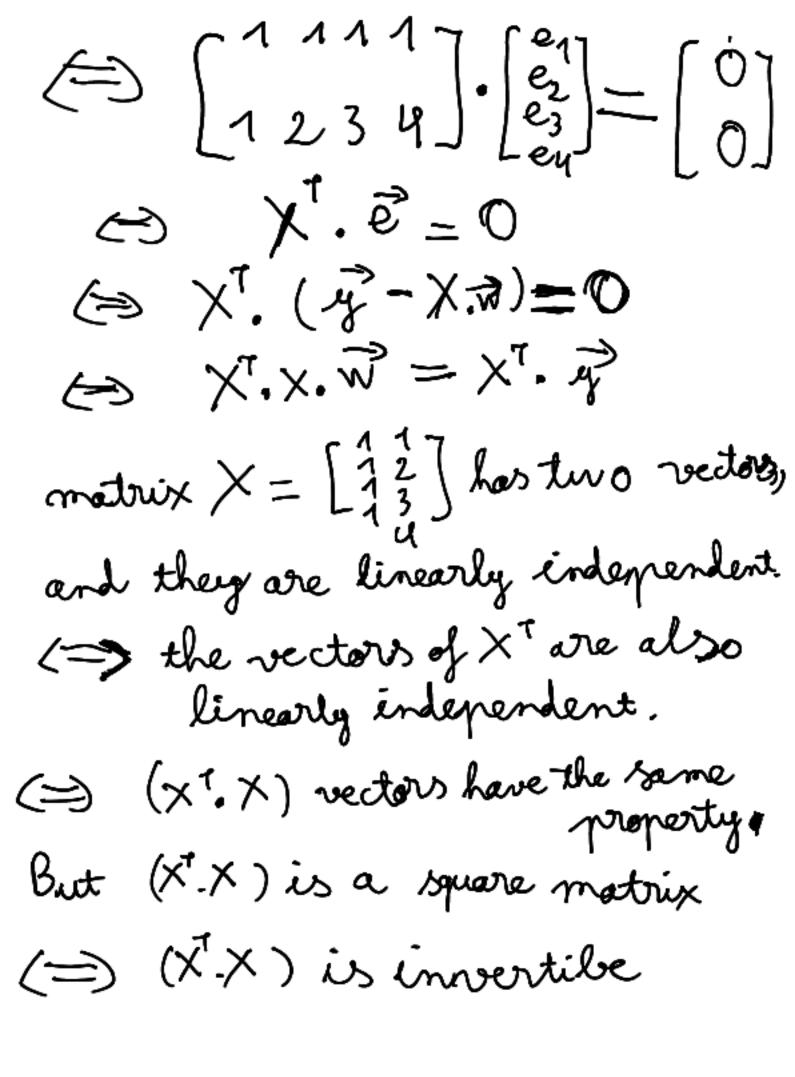
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$$(2\times1) \qquad (2\times1) \qquad (1\times1) \qquad (2\times1) \qquad (2\times1$$

(=) 
$$f = \text{protection} = \vec{n} = \times \cdot \vec{N}$$
  
 $= \begin{bmatrix} 1 & 2 \\ 1 & 3 \end{bmatrix} \cdot \begin{bmatrix} 1 & 2 \\ 1 & 2 \end{bmatrix} = \begin{bmatrix} 2.2 \\ 3.4 \\ 4.6 \end{bmatrix}$   
 $\begin{bmatrix} 1 & 2 \\ 1 & 4 \end{bmatrix} \cdot \begin{bmatrix} 1 & 2 \\ 3.4 \\ 4.6 \end{bmatrix}$ 

$$(=) \overrightarrow{e} = \overrightarrow{y} - \overrightarrow{y} = \overrightarrow{y} - \cancel{y}$$

$$= \begin{bmatrix} 3 \\ 25 \\ 6 \end{bmatrix} - \begin{bmatrix} 2.2 \\ 3.4 \\ 4.6 \end{bmatrix}$$

$$= \begin{bmatrix} 0.8 \\ -1.4 \\ 0.4 \end{bmatrix} - \begin{bmatrix} e_{1} \\ e_{2} \\ e_{3} \\ e_{4} \end{bmatrix}$$

Summary Way: