(Q.1 How to find the eigenvalues of a material co.2 How many dustinct eigen value can be occured as Number of Eigenvalue un finite con finite?

$$\forall x \in \mathbb{R}^n$$

$$Ax = \exists x = x$$

> x us en eigenvector of I correspond to eigenvalue 1.

$$P = O_{n\times n}$$

$$P = O \cdot x = 0 = 0 \cdot x$$
eigenvalue O , $f x \in \mathbb{R}^n \setminus SOY \cup S$ an eigenvecte.

$$\begin{bmatrix}
d_1 & 0 \\
0 & d_2
\end{bmatrix}, \quad d_1 \neq d_2$$

$$\begin{bmatrix}
d_1 & 0 \\
0 & d_2
\end{bmatrix} \begin{bmatrix}
0 \end{bmatrix} = \begin{bmatrix}
d_1 \\
0
\end{bmatrix} = d_1 \begin{bmatrix}
0 \\
0
\end{bmatrix}$$

$$\begin{bmatrix}
0 \\
0
\end{bmatrix} \quad u \quad \text{an} \quad e. v \quad coel. \quad b \quad e. v. \quad d_1$$

-> Eigenvector g T

-) Tey the enample (**) by considering the basis & (1,0), (1,1))