$$A = \begin{bmatrix} 2 & 0 & 0 & 0 \\ 0 & 1 & 1 & 0 \\ 0 & 1 & 1 & 0 \\ 0 & 0 & 0 & \lambda \end{bmatrix} \implies dd + (A) = 0$$

$$|i| p(x) = olet [A-xI] = \begin{vmatrix} 2-x & 0 & 0 & 0 \\ 0 & 7-x & 1 & 0 \\ 0 & 0 & 0 & 2-x \end{vmatrix} = 0$$

$$|x_1 = 0|$$

$$|x_2 = 2|$$

$$|x_3 = 3|$$

$$|x_4 = 3|$$

$$|x_4 = 3|$$

$$|x_4 = 1|$$

$$|V| |X| = 0$$

$$|V| |V| = 0$$

$$|V| = 0$$

$$|V|$$

$$P(a) = \begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & -1 & 1 & 0 \\ 0 & 1 & -1 & 0 \\ 0 & 0 & 0 & 0 \end{bmatrix} =$$

$$P(a) = \begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & -1 & 1 & 0 \\ 0 & 1 & -1 & 0 \\ 0 & 0 & 0 & 0 \end{bmatrix} \Rightarrow \begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 0 \end{bmatrix} \begin{bmatrix} a \\ b \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix} \Rightarrow \begin{cases} -b + c = 0 \\ b - c = 0 \\ 0 = 0 \end{cases}$$

$$\mathcal{F}^{(3)} = \begin{pmatrix} 1 \\ 0 \\ 0 \\ 0 \end{pmatrix}, \qquad \mathcal{F}^{(3)} = \begin{pmatrix} 0 \\ 0 \\ 0 \\ 1 \end{pmatrix}, \qquad \mathcal{F}^{(4)} = \begin{pmatrix} 0 \\ 1 \\ 0 \end{pmatrix}$$

$$\beta = \left\{ \begin{pmatrix} 0 \\ -1 \\ 0 \end{pmatrix} \right\}$$

$$\mathcal{B} = \left\{ \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \mid \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \mid \begin{pmatrix} 0 \\ 1 \\ -1 \\ 0 \end{pmatrix} \right\}$$

VII Considerando a multiplicidade das outevalures, temas:

Viil Problete des outereleves

$$0.(2.3) = 0 = obt(A)$$

a i bion

b= C