$$K=1 \quad \begin{array}{l} 1 < k \leq n-1 \\ K=\{1\} \\ A_{s_1} = \begin{pmatrix} 4 \\ 5 \end{pmatrix} \\ k=2 \quad T_{e} = \{1,2\} \end{array}$$

As= (6)

Ax = b X-0 Sol. Unica. AA = LO - 0 Red. Gauss

inv. mat. elem.

 $K = N-1 \quad T_{c} = \{1,2,3,4,---,N-1\}.$ $-D A_{S_{N-1}} = \{a_{N}, a_{N}\} \quad a_{N} \neq 0$ $-D K = N-2 \quad T_{c} = \{1,2,3,---,N-2\}.$ $-N M = \{a_{N-1}, a_{N-1}\} \quad a_{N} = \{a_{N-1}, a_{N-2}\}.$

-0 As= (an-in-) an-in)
-1 (an, n-1 (ann)
-1 (ann)

$$A = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{7} \\ 1 & -2 & 5 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{7} \\ 1 & -2 & 5 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{7} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{7} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{7} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{7} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{7} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{7} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{7} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{7} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{7} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{7} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{7} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{7} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{7} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{7} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{7} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{7} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{7} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{7} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{7} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{7} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{7} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{7} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{7} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{7} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{7} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{4} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{4} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{4} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{4} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{4} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{4} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{4} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{4} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{4} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{4} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{4} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{4} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{4} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{4} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{4} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{4} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{4} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{4} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4} & \frac{3}{4} \\ 0 & 1 & 0 \end{pmatrix} \qquad P = \begin{pmatrix} 0 & \frac{2}{4}$$

triangular The Nine. Matriz de dividr cadavegration Piv. Le

Por Piv.

A - Simétrica y vo Sing.

$$A = LDU = A^{t}$$

$$A' = (LDU)^{t} = U^{t}DL^{t}$$

$$LDU = U^{t}DL^{t}$$

$$L = U^{t}$$

$$A = \begin{pmatrix} 3 & 4 & 3 \\ 4 & 8 & 6 \\ 3 & 8 & 9 \end{pmatrix} = L U = L D U' = L D L' = (L D) (D L')$$

$$\begin{pmatrix} 3 & 4 & 3 \\ 4 & 8 & 9 \\ 3 & 8 & 9 \end{pmatrix} \sim_{9} \begin{pmatrix} 3 & 4 & 3 \\ 0 & 0 & 4/2 \\ 0 & 0 & 4/2 \end{pmatrix} \qquad \vdots \qquad \vdots \qquad \vdots \qquad \vdots \qquad \vdots$$

$$U = D L' = \begin{pmatrix} 3 & 8/3 & 0 \\ 0 & 8/3 & 2/2 \\ 0 & 0 & 1 \end{pmatrix} \qquad T = \begin{pmatrix} \sqrt{3} & 0 & 0 \\ 1 & 8/3 & \sqrt{2} \\ 0 & 0 & 1 \end{pmatrix} \qquad T = \begin{pmatrix} \sqrt{3} & \sqrt{2} & 0 \\ 4 & \sqrt{3} & \sqrt{2} \\ 0 & 0 & 1 \end{pmatrix}$$

$$T = \begin{pmatrix} \sqrt{3} & \sqrt{2} & 0 \\ 4 & \sqrt{3} & \sqrt{2} \\ 0 & 0 & 1 \end{pmatrix} \qquad T = \begin{pmatrix} \sqrt{3} & \sqrt{2} & \sqrt{2} \\ 4 & \sqrt{3} & \sqrt{2} \\ 1 & 3 & \sqrt{2} \\ 0 & 0 & 1 \end{pmatrix}$$

$$(A)(x) = (x_4-1)$$

$$X_A = b$$

$$A = LU$$

$$A \times = b$$

$$LU \times = b$$

$$(X) = x_1 v_1 + x_2 v_2 + x_3 v_3$$

$$\left(\begin{array}{ccc}
V_1 & V_2 & V_3 \\
A_{mx3} & \alpha_2 \\
A_{x3} & \alpha_3
\end{array}\right) = X$$

$$\left(\begin{array}{c}
A_{x3} & \alpha_2 \\
A_{x3} & \alpha_3
\end{array}\right) = X$$

$$\alpha_1 S_1 + \alpha_2 S_2 + \cdots + \alpha_n S_n = 0$$

$$A = \begin{pmatrix} 2 & 3 \\ 6 & 6 \end{pmatrix}$$

Son l.i. S: y Sólo S:
$$\alpha_1 = \alpha_2 = ... = \alpha_n = 0$$
.

$$Ker(A) = \{x \mid Ax = 0\}.$$

$$Ker(A) = \{0\}$$

$$Ker(A) = \{0\}$$

$$A = \begin{pmatrix} a_{11} & \cdots & a_{1n} \\ \vdots & \ddots & \vdots \\ a_{m_1} & \cdots & a_{m_n} \end{pmatrix} \sim \begin{pmatrix} a_{i_1} & \cdots & a_{i_n} \\ \vdots & \ddots & \vdots \\ a_{m_n} & \cdots & a_{m_n} \end{pmatrix}$$

$$Rango(A) = r$$

$$o = xA$$

$$A = 0$$
 $A = \begin{pmatrix} 1 & 2 & -1 \\ 3 & -3 & 2 \\ -1 & -11 & 6 \end{pmatrix}$
 $A = \begin{pmatrix} 1 & 0 & -1/4 & 0 \\ 0 & 1 & -5/4 & 0 \\ 0 & 0 & 0 \end{pmatrix}$
 $A = \begin{pmatrix} 1 & 2 & -1 \\ 3 & -3 & 2 \\ -1 & -11 & 6 \end{pmatrix}$
 $A = \begin{pmatrix} 1 & 0 & -1/4 & 0 \\ 0 & 1 & -5/4 & 0 \\ 0 & 0 & 0 \end{pmatrix}$
 $A = \begin{pmatrix} 1 & 0 & -1/4 & 0 \\ 0 & 1 & -5/4 & 0 \\ 0 & 0 & 0 \end{pmatrix}$
 $A = \begin{pmatrix} 1 & 0 & -1/4 & 0 \\ 0 & 1 & -5/4 & 0 \\ 0 & 0 & 0 \end{pmatrix}$
 $A = \begin{pmatrix} 1 & 0 & -1/4 & 0 \\ 0 & 1 & -5/4 & 0 \\ 0 & 0 & 0 \end{pmatrix}$
 $A = \begin{pmatrix} 1 & 0 & -1/4 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{pmatrix}$
 $A = \begin{pmatrix} 1 & 0 & -1/4 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{pmatrix}$
 $A = \begin{pmatrix} 1 & 0 & -1/4 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{pmatrix}$
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 $A = \begin{pmatrix} 1 & 0 & -1/4 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{pmatrix}$
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 $A = \begin{pmatrix} 1 & 0 & -1/4 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{pmatrix}$
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 $A = \begin{pmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{pmatrix}$
 $A = \begin{pmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{pmatrix}$
 $A = \begin{pmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0$

$$\begin{pmatrix} 1 & 2 & -1 & | & y_1 \\ 3 & -3 & 2 & | & y_2 \\ -1 & -11 & 6 & | & y_3 \end{pmatrix} \sim_{0} \begin{pmatrix} 1 & 2 & -1 \\ 0 & -9 & 5 \\ 0 & 0 & 0 \\ 4y_1 - y_2 + y_3 \end{pmatrix}$$

$$\begin{pmatrix} 1 & 2 & -1 \\ 0 & -9 & 5 \\ 0 & 0 & 0 \\ 1 & 1 & 1 \end{pmatrix}$$

Panyo(A)=2
$$4y_1-y_2+y_3=0$$

$$y_1=y_2-y_3$$

$$y_4-y_3$$

$$\begin{pmatrix} 3x - 334 \\ 3z \\ 3z \end{pmatrix} = \begin{pmatrix} 3 \\ 1 \\ 0 \end{pmatrix} yz + \begin{pmatrix} 3 \\ 0 \\ 1 \end{pmatrix} yz$$

$$A = \begin{pmatrix} 10 & -18 \\ 6 & -11 \end{pmatrix}$$

$$A \cdot V = \begin{pmatrix} 1 & -11 \\ 1 & -11 \end{pmatrix} \begin{pmatrix} 1 \\ 1 \end{pmatrix} = A \cdot A$$

Vect. Provid

$$V = V \cdot V = O$$

2 1m. brokio.

$$(A-JI)x = 0$$
 ó det $(A-JI)=0$ × Sol. No trivial.

$$A = \begin{pmatrix} 4 & 2 \\ 3 & 3 \end{pmatrix}$$

$$det(A-\lambda I) = det\left(\begin{pmatrix} 4 & 2 \\ 3 & 3 \end{pmatrix} - \begin{pmatrix} \lambda & 0 \\ 0 & \lambda \end{pmatrix}\right) = C$$

$$det(A-\lambda I) = det(\begin{pmatrix} 4 & 2 \\ 3 & 3 \end{pmatrix} - \begin{pmatrix} \lambda & 0 \\ 6 & \lambda \end{pmatrix}) = 0$$

$$= det(\begin{pmatrix} 4-\lambda & 2 \\ 3 & 3-\lambda \end{pmatrix}) = (4-\lambda)(3-\lambda) - 6$$

$$= (2-\lambda)(3-\lambda) - 6$$

$$= (2-\lambda)(3-\lambda) - 6$$

$$= (3-\lambda)(3-\lambda) = 0$$

$$= (3-6)(3-1) = 0$$

1 (0)

$$(A - \lambda I) \times = 0$$

$$\Rightarrow \begin{pmatrix} -2 & 2 & 0 \\ \hline & 0 & 1 & 0 \end{pmatrix} \Rightarrow \frac{-2x_1 + 2x_2}{x_1 = x_2} = 0$$

$$\frac{\sqrt{\lambda_{2}-1}}{\sqrt{4-1}} = \frac{2}{3} = (A-\lambda_{2}L) = \begin{pmatrix} 3 & 2 \\ 3 & 2 \end{pmatrix}$$

$$\frac{3}{3} = 1 = \begin{pmatrix} 3 & 2 \\ 3 & 2 \end{pmatrix}$$

$$(A - \lambda_2 I) \times =0$$

$$\begin{pmatrix}
 3 & 2 & | & 0 & | & 0 & | & 3 \times 1 & | & 2 \times 2 = 0 \\
 (a & 0 & | & 0 & | & 0 & | & \times 1 & | & 2 \times 2 = 0 \\
 (a & 0 & | & 0 & | & 0 & | & \times 1 & | & 2 \times 2 = 0 \\
 (a & 0 & | & 0 & | & 0 & | & \times 1 & | & 2 \times 2 = 0 \\
 (a & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | \\
 (a & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0 & | & 0$$

Val. y vect. Propies
Le A.

$$A_1 = 6$$
 $V_1 = \begin{pmatrix} 1 \\ 1 \end{pmatrix}$
 $A_2 = 1$ $V_2 = \begin{pmatrix} -2/3 \\ 1 \end{pmatrix}$