

线性方程组

$$A = \begin{pmatrix} 1 & 2 & 3 \\ 0 & 4 & a \\ 1 & a & 9 \end{pmatrix} \quad \begin{pmatrix} 1 & 2 & 3 \\ 0 & 4 & a \\ 0 & a-2 & 6 \end{pmatrix} = \begin{pmatrix} 4 & 9 \\ 0 - 2 & 6 \end{pmatrix}$$

$$\begin{bmatrix} 0 & 4 & \alpha \\ 1 & \alpha & 9 \end{bmatrix} \begin{bmatrix} 0 & 4 & \alpha \\ 0 & \alpha - 2 & 6 \end{bmatrix} = \begin{bmatrix} \alpha - 2 & 6 \\ 0 & \alpha - 2 & 6 \end{bmatrix}$$

$$a = -4$$

$$= 24 - (a^{2} - 1a) = 0$$

$$a^{2} - 2a - 24 = 0$$

$$(a - 6) (a + 9) = 0$$

$$a = 0$$

$$\chi = C_1 \begin{pmatrix} 1 \\ 0 \end{pmatrix} + C_2 \begin{pmatrix} 2 \\ 4 \\ -4 \end{pmatrix} = C_1 \begin{pmatrix} 1 \\ 2 \\ 3 \end{pmatrix} = C_1 \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix} + C_2 \begin{pmatrix} 2 \\ 4 \\ 3 \end{pmatrix} = C_1 \begin{pmatrix} 1 \\ 2 \\ 3 \end{pmatrix} = C_1 \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix} = C_1$$

A的新芝和为O

rca)=n-| AX=O的通過。

$$A \begin{pmatrix} 1 \\ 1 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \qquad A X = 0$$

$$A = C \begin{pmatrix} 1 \\ 1 \end{pmatrix} \qquad CCA = X$$

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A (KJ, + KJ) -- tkg) 2b k. tk. - tks=1. Ckit ks) b= b

$$\gamma(A) = 3$$

$$2 + 2 = \begin{pmatrix} -1 \\ 2 \\ 2 \end{pmatrix}$$

ACJ. Edr) = 26

A(d,tdr)=b.

0-1

r (A) 2 r (A)

o o o are tailantas co

A mxn tell

10- Amon 元 100)=m 只 AX=6-定有海