105. NZ

Cxema egunesbennoro generul nesoga Taycea gra birruenerus A.

$$A = \{a_{ij}, a_{ij} \in \mathbb{R}, clet \ \exists \ \neq 0 = \}$$

$$\exists A^{-1} = \{x_{ij}, x_{ij}\}_{1}^{n}.$$

$$AA^{-1} = E(1); \quad nCJAY$$

$$a_{11} a_{12} a_{13} a_{14} \mid 1 \mid 0 \mid 0 \mid 0$$

$$a_{21} a_{22} a_{23} a_{24} \mid 0 \mid 1 \mid 0 \mid 0$$

$$a_{31} a_{32} a_{33} a_{34} \mid 0 \mid 0 \mid 1 \mid 0$$

$$a_{41} a_{42} a_{43} a_{44} \mid 0 \mid 0 \mid 1$$

- 1) (x11, x21, x31, x41)]
- 2) $(x_{12}, x_{22}, x_{32}, x_{42})^{\mathbb{P}}$
- 3) $(x_{13}, x_{23}, x_{33}, x_{43})^{T}$
- 4) $(x_{14}, x_{24}, x_{34}, x_{44})^{T}$

hondine обусловиентосту матриях и СЛАУ. Гисло обусловие тости.

$$A\bar{x} = \bar{f}(2), A = \{\alpha_{ij}, \beta_{i}, \alpha_{ij} \in \mathbb{R}; \text{ olet } A \neq 0, \}$$

$$\bar{f} = (f_{1}, -, f_{n})^{T}$$

$$\widetilde{A}\widetilde{x}=\widetilde{\widetilde{\zeta}}(3)$$
, $2ge\ \widetilde{A}=A+\delta$; $\widetilde{\widetilde{\zeta}}=\zeta+\overline{\zeta}=0$

 $\mathcal{L} = \mathcal{L} + \mathcal{L}$

Kan zabucus norpenerrocso pemernul ot norpenerrocsy maspuyn u вектора правих гаелей СЛЯУ?

Lyer S = 0 u

11211 0- anavor otrocusentrois norperent,

11/211 0-> anavor otrocutereroui norpeller. 11/211 Bertopa npaborx zaesei CSAY (2),

Frozge 11211 < cond A 11711 (3),

2ge cond A = 11 A 11 11 A - 11 (4).

fyers $f = f^{T}$; $|| \cdot ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $|| f ||_{2} = 7$ $||_{2} = 7$ $||_{2} = 7$ $||_{2} = 7$ $||_{2} = 7$ $||_{2} = 7$ con-d A = 11 A11 211 A-11/2 = max 12(A)/ min 12(A)/

Zagarure 12 rat. N2.

- 1. Epumerula exemy egurciberarios generula mesoga Taycea, ration A^{-1} (maspunja A uz nativa) u npobepus $A\hat{A}^{-1} = E$.
- 2. Borruerus cond & = || All = 1 || All = 1 || All = 1.