

CIORNEI MIREL-ALIN

GRUPA 1537

TEMA 5

GF(256) - X?UYXSTLADPLW

$$\begin{pmatrix} 3 \\ 15 \end{pmatrix} = \begin{pmatrix} a_1 & a_2 \\ a_3 & a_4 \end{pmatrix} \begin{pmatrix} 0 \\ 17 \end{pmatrix} \Rightarrow \begin{cases} 3 \equiv 17a_2 \Rightarrow a_2 \equiv 7 \\ 15 \equiv 17a_4 \Rightarrow a_4 \equiv 6 \\ 11 \equiv 11a_1 \Rightarrow a_1 \equiv 1 \\ 22 \equiv 11a_3 \Rightarrow a_3 \equiv 2 \end{cases} \Rightarrow A = \begin{pmatrix} 1 & 7 \\ 2 & 6 \end{pmatrix}$$

$$\det A = 6 - 14 \equiv -8 \equiv 21$$

$$\frac{1}{\det A} \equiv \frac{1}{21} \equiv \frac{1}{3 \cdot 7} = \frac{1}{3} \cdot \frac{1}{7} \equiv 10 \cdot (-4) \equiv 18$$

$$A^{-1} = 18 \begin{pmatrix} 6 & -7 \\ -2 & 1 \end{pmatrix} \equiv \begin{pmatrix} 21 & 19 \\ 22 & 18 \end{pmatrix}$$

$$\begin{pmatrix} 21 & 19 \\ 22 & 18 \end{pmatrix} \begin{pmatrix} 6 \\ 5 \end{pmatrix} = \begin{pmatrix} 18 \\ 19 \end{pmatrix} \rightarrow ST$$

$$\begin{pmatrix} 21 & 19 \\ 22 & 18 \end{pmatrix} \begin{pmatrix} 15 \\ 24 \end{pmatrix} = \begin{pmatrix} 17 \\ 8 \end{pmatrix} \rightarrow RI$$

$$\begin{pmatrix} 21 & 19 \\ 22 & 18 \end{pmatrix} \begin{pmatrix} 9 \\ 15 \end{pmatrix} = \begin{pmatrix} 10 \\ 4 \end{pmatrix} \rightarrow KE$$

$$\begin{pmatrix} 21 & 19 \\ 22 & 18 \end{pmatrix} \begin{pmatrix} 26 \\ 23 \end{pmatrix} = \begin{pmatrix} 26 \\ 0 \end{pmatrix} \rightarrow -A$$

$$\begin{pmatrix} 21 & 19 \\ 22 & 18 \end{pmatrix} \begin{pmatrix} 27 \\ 20 \end{pmatrix} = \begin{pmatrix} 17 \\ 26 \end{pmatrix} \rightarrow T-$$

$$\begin{pmatrix} 21 & 19 \\ 22 & 18 \end{pmatrix} \begin{pmatrix} 24 \\ 23 \end{pmatrix} = \begin{pmatrix} 13 \\ 14 \end{pmatrix} \rightarrow NO$$

$$\begin{pmatrix} 21 & 19 \\ 22 & 18 \end{pmatrix} \begin{pmatrix} 18 \\ 17 \end{pmatrix} = \begin{pmatrix} 14 \\ 13 \end{pmatrix} \rightarrow ON$$

$$\begin{pmatrix} 21 & 19 \\ 22 & 18 \end{pmatrix} \begin{pmatrix} 11 \\ 0 \end{pmatrix} = \begin{pmatrix} 28 \\ 10 \end{pmatrix} \rightarrow !K$$

\rightarrow STRIKE - AT - NOON! KARLA