Sport Ha cionsolere 6 1 in $A_{\kappa \times n}$, $B_{n \times s} = C_{\kappa \times s}$ Tresola pa e palen un Topost Ha pepolete lob II Pari. -+ ainbnj = Zailbej. Cij = air by + air by + $\begin{pmatrix} 1 & 2 & 3 \\ -4 & -1 & -2 \end{pmatrix} \begin{pmatrix} 5 & 1 & 0 \\ -1 & 2 & 3 \\ 4 & 0 & -1 \end{pmatrix} = \begin{pmatrix} 1.5 + 2.(-1) + 3.4 \\ -4.5 + (-1)(-1) + (-2)4 \\ = \begin{pmatrix} 15 & 5 & 3 \\ -27 & 6 & -1 \end{pmatrix}$ 1.1+2.2+3.0 1.0+2.3+3(4) -4.4+(-1).2+(-9.0) -4.0-1.3-2(-1) $\begin{pmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \end{pmatrix} \begin{pmatrix} 7 & 8 \\ 9 & 10 \\ 11 & 12 \end{pmatrix} = \begin{pmatrix} 1 \cdot 7 + 2 \cdot 9 + 3 \cdot 11 \\ 4 \cdot 7 + 5 \cdot 9 + 6 \cdot 11 \end{pmatrix}$ 1.8 +2.10+3.12 (58 69) 4.8 +5.10 +6.12 = (39 154) 7.1+8.4 7.2+8.5 7.3+8.6 39 54 69 $\begin{pmatrix} 7 & 8 \\ 9 & 10 \\ 11 & 12 \end{pmatrix} \begin{pmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \end{pmatrix} =$ 9.1+10.4 9.2+10.5 93+10.6 49 68 87 11.1+12.4 11.2+12.5 11.3+12.6 59 82 105

Ha Marpuyu

JUHO HEHUE

Пиноонение на матричи

$$A_{KXN}B_{MXS} = C_{KXS}$$
 броятна стелбовете ня A трябва ga е равен на дроя на реровете на B
 $C_{ij} = a_{i1}b_{ij} + a_{i2}b_{2j} + \cdots + a_{in}b_{nj} = \sum_{p=1}^{n} a_{ip}b_{pj}$
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 $C_{ij} = a_{i1}b_{ij} + a_{i2}b_{nj} + a_{i2}b_{nj} = \sum_{p=1}^{n} a_{i1}b_{nj} + a_{i2}b_{nj} = \sum_{p=1}^{n} a_{i1}b_{nj}$

C6-6a (A+B)C=AC+BC (A,BEllxxn, CEllnxs)

Il Hera A Ellixu (F), BEllinxs (F), Cellsxt (F), (2)
Foraba A (BC) = (AB)C \mathcal{D} -60 $A = (aij)_{KXN} / \mathcal{B} = (bij)_{NXS} C = (cij)_{SXt}$ Hera $AB = D = (dij)_{KXS}$ $BC = G = (gij)_{NXt}$ Hera $X = A(BC) = A \cdot G = (xij)_{KXt}$ $Y = (AB)C = DC = (yij)_{KXt}$ $x_{pq} = \sum_{u=1}^{\infty} a_{pu} g_{uq} = \sum_{u=1}^{\infty} a_{pu} \left(\sum_{v=1}^{\infty} b_{uv} c_{vq}\right) = \sum_{u=1}^{\infty} \sum_{v=1}^{\infty} a_{pu} b_{uv} c_{vq}$ $ypq = \sum_{v=1}^{\infty} dpv cvq = \sum_{v=1}^{\infty} (\sum_{u=1}^{\infty} apubuv) cvq = \sum_{v=1}^{\infty} \sum_{u=1}^{\infty} apubuv cvq$ $\frac{\sum_{i=1}^{n}\sum_{v=1}^{3}m(u,v)=\sum_{i=1}^{3}\sum_{u=1}^{m}m(u,v)}{\sum_{i=1}^{n}\sum_{v=1}^{4}\sum_{u=1}^{2}\sum_{u=1}^{2}\sum_{v=1}^{m}\sum_{u=1}^{2}\sum_{v=1}^{2}\sum_{u=1}^{2}\sum_{v=1}^{2}\sum_{u=1}^{2}\sum_{v=1}^{2}\sum_{u=1}^{2}\sum_{v=1}^{2}\sum_{u=1}^{2}\sum_{u=1}^{2}\sum_{v=1}^{2}\sum_{u=1}^{2}\sum_{u=1}^{2}\sum_{v=1}^{2}\sum_{u=1}^{2}\sum_{$

Cb-60 | $A \in \mathcal{U}_{KXN}(F)$; E_K - equation K_{XX} matrice (4) $E_K A = A$; $A \in \mathbb{R} = A$ $D = B = B = (bij)_{KXN} \Rightarrow bij = a_{i,0} + -+ a_{i,1} + -+ a_{i,n} = a_{i,j} \Rightarrow B = A$ $TPAHCNOHUPAHE | A_{KXN} \Rightarrow A^t \in \mathcal{U}_{NXK}(F)$ $Aco A^t = (a_{i,j}) \Rightarrow a_{i,j} = a_{i,n} \in \mathcal{T}_{NOHS} A \text{ crabs}$ $Aco A^t = (a_{i,j}) \Rightarrow a_{i,j} = a_{i,n} \in \mathcal{T}_{NOHS} A \text{ crabs}$ $Aco A^{t} = (a_{i,j}) \Rightarrow a_{i,j} = a_{i,n} \in \mathcal{T}_{NOHS} A \text{ crabs}$ Hera Axxn. Bnxs = Cxxs Cij = (ain, ain) (bij = ain bij + - + ain buj = (bij - bnj) (ain)

Ni per buj dirent its fortant its fortant its

=) enemetra cij crou te sescro ji be mou 3 begenerate

ed = (at tit =) enemetra cij crou ne suscro ji $\frac{C6-60}{C6-60} \Rightarrow (B+A)^{t} = AB \Rightarrow (AB)^{t} = B^{t}A^{t}$ $\frac{C6-60}{C6-60} \Rightarrow (B+A)^{t} = B^{t}+A^{t} \Rightarrow (AA)^{t} = AA^{t} \Rightarrow (A^{t})^{t} = A$

Chepeibre
$$A_1, ..., A_5$$
 ca matrice, 3a xouto e bos months of my work erriero $A_x.A_{x+1}$, to take no xare beto in $A_1.A_2...A_5$ ce nonyraba equal result persynta; $Cb.bo/A$ e $Cb.$

The Hera Axxn Bmxs = Cxxs, Torales

a) perobere Ha C= AB ca suttente nourous Hayun Har

Sperobere Ha B

a) Crentobere Ha C= AB ca suttente hours un ten

Ha crentobere Ha A

B = (bij) xxn

C = (Cij) xxs i Tu pro 49 (cu, cca, ..., cis) = (= ait bt1, = ait bt2, -, Zait bts) = \frac{5}{t} ait (\beta_{11}, \beta_{12}, \dots, \beta_{25}) = air \beta_{1} + \dots + air \beta_{1} \text{ perobe 14. B} празна ст.