Nexyus Nº5 $W(\alpha_{1}, \alpha_{2}, -, \alpha_{n}) = \begin{vmatrix} \alpha_{1} \alpha_{2} - \alpha_{n} \\ \alpha_{1}^{2} \alpha_{2}^{2} - \alpha_{n}^{2} \\ \alpha_{2}^{3} \alpha_{2}^{3} - \alpha_{n}^{3} \end{vmatrix} = 17(\alpha_{1}^{2} \alpha_{2}^{3} + \alpha_{2}^{3} - \alpha_{n}^{3}) \times 10^{-10}$ Let no Bangupuony $\alpha_{1}^{n} = \alpha_{1}^{n} + \alpha_{1}^{n} + \alpha_{2}^{n} + \alpha_{2}^{$ $\begin{vmatrix} a_{1}^{n-1} a_{4}^{n-1} - a_{4}^{n-1} \\ a_{1} a_{4}^{n-1} - a_{4}^{n-1} \end{vmatrix} = (-1)^{n} W(a_{1}, a_{4}) = \int (a_{5} - a_{5}) \\ a_{1} a_{2} - a_{4} \\ 1 1 - - 1 \end{vmatrix}$ $\begin{pmatrix}
\frac{b_0}{a_0} & \begin{pmatrix} b_1 \\ a_1 \end{pmatrix} & - & \begin{pmatrix} b_n \\ a_{n} \end{pmatrix} & = & \prod_{j=0}^{n} \alpha_j^n \cdot W \begin{pmatrix} b_0 \\ a_0 \end{pmatrix} \cdot \psi \begin{pmatrix} b_1 \\ a_{n} \end{pmatrix} \\
\begin{pmatrix} b_0 \\ a_0 \end{pmatrix}^n & \begin{pmatrix} b_1 \\ a_1 \end{pmatrix}^n & - & \begin{pmatrix} b_1 \\ a_1 \end{pmatrix}^n & = & \begin{pmatrix} b_1 \\ a_1 \end{pmatrix}^n &$

$$= \left(\prod_{s=0}^{n} \alpha_{j}^{n} \right). \quad \prod \left(\frac{b\hat{e}}{a_{i}} - \frac{bk}{a_{k}} \right)$$

$$0 \le kc \hat{i} \le n$$

$$a_{ij} x_{ij} + a_{ik} x_{2} + + a_{in} x_{ij} = b_{ij} \quad M. \quad ka (40)$$

$$a_{ij} x_{ij} + a_{ik} x_{2} + + a_{in} x_{ij} = b_{ij} \quad A = (a_{ij})_{in x_{ij}}$$

$$- \frac{1}{a_{ij} x_{ij} + a_{ik} x_{2} + - + a_{ini} x_{ij} = b_{ij}} \quad A = A$$

$$A = A = A$$

$$\begin{array}{c|c}
\alpha_{11}x_1 + \alpha_{12}x_2 + \\
Ax_1 = A_1 \\
Ax_2 = A_2 \\
\vdots \\
x_1 = A_1
\end{array}$$

(1) + A11 + (2) + A21 + (3) + A31 + + (N) . Am = 26 k Ax1

(a)
$$A_{11} + a_{21}A_{21} + . + a_{11}A_{11})X_{1} + (a_{12}A_{11} + ... + a_{12}A_{11})X_{2} + (a_{11}A_{11} + a_{21}A_{21} + ... + a_{11}A_{11})X_{1} = \sum_{k=1}^{n} b_{k}A_{k1} + ... + (a_{11}A_{11} + ... + a_{11}A_{11})X_{1} = \sum_{k=1}^{n} b_{k}A_{k1} + ... + (a_{11}A_{11} + ... + a_{11}A_{11})X_{1} = \sum_{k=1}^{n} b_{k}A_{k1} + ... + a_{11}A_{11}X_{1} = \sum_{k=1}^{n} b_{k}A_{11}X_{1} = \sum_{k=1}^{n} b_{k}A_{11}X_{$$

(1)
$$A_{12} + (2)_{10} A_{22} + - + (m)_{10} A_{102} = \sum_{k=1}^{n} 6_k A_{k2}$$

(2) $A_{12} + (2)_{10} A_{22} + - + (m)_{10} A_{102} = \sum_{k=1}^{n} 6_k A_{k2}$

(2) $A_{12} + (2)_{10} A_{22} + - + (m)_{10} A_{102} = \sum_{k=1}^{n} 6_k A_{k2}$

(3) $A_{12} + A_{21} + A_{21} + A_{22} + A_{23} +$

Mpolepka: (6 uzploto your, anastoruras)
6 ocrananuse (ns) op. ypus)

and + and - - (--)= = 1 (an 2 6x Ax1 + 0/2 2 6x Ax2 + - + an 2 6x Axn)=

= 1 [(a11 A11 + a12 A12++ + an Ann) 61+ \(\alpha \) (\alpha \) A21 + \(\alpha \) A21 + \(\alpha \) A22 + - + \(\alpha \) \(\beta \) + \(\alpha \) \(\alpha \) + \(\alpha \) \(\al

+(anAn+ are Ane+ + an Ann) 64] = = 1 [ABI+OB2++OBI]= ABI = B1 C tobar govarance cregnova The In (Loqueseu ra Kpanep): Ares A + 0 32 CMATA |X|, TO |X| ma equinco besco peryesare, no ny mo or populyme peryesare, no ny mo $X_i = \Delta S$, $S = \overline{L}$, L3ad. no nar or upegu: Eis M. eginny A= & auxtrix, B= & britis, AB + BA C=AB=(Zaix Eix)(Zby: Ey)= = \(\alpha \alpha \kappa \left(\text{Exp} \right) \begin{aligned} \left(\text{Exp} \right) \begin{aligned} \left(\text{Exp} \right) \begin{aligned} \left(\text{Exp} \right) \\ \text{Eix } \text{Ee}_{\text{g}} = \delta \kappa \kappa \text{Exp} \\ \text{Exp} \end{aligned} \quad \text{Exp} \\ \text{Eix } \text{Ee}_{\text{g}} = \delta \kappa \kappa \text{Exp} \\ \text{Exp} \quad \text{Exp} \\ \text{Exp} \quad \text{Exp

Умно рение па дехериналия Hexa A, B & Mm (F) u C = AB & Mu (F). defc = defA, defB Първо изе докажем спериото иом. Овие. News: Hexa A, B carble khappassey Meagher vyu oo nou u kon peg crookerso u gar afanybaue Cregnora M. DE MARK (F) $\varnothing = \begin{pmatrix} A & O \\ * & B \end{pmatrix}_{\text{M+M}}$ Toraba

Let $\mathscr{B} = \text{det}A. \, \text{det}B$ Sbo: Ungypusus no pega me A, ne no a n=1 A=(an) -> det A= an dets= |- |= an(1), 2= (dn 0 0.0 0 blk blk blk bke bke bke bke = det A. det B Un: detx=detA.det& 30 peg na H.D

$$\frac{1}{2} = \begin{pmatrix}
a_{11} & a_{12} - a_{1n} & 0 & 0 & 0 \\
a_{21} & a_{22} - a_{2n} & 0 \\
a_{n1} & a_{n2} - a_{nn}
\end{pmatrix}$$

$$\frac{1}{2} = \begin{pmatrix}
a_{11} & a_{12} - a_{2n} & 0 \\
a_{n1} & a_{n2} - a_{nn}
\end{pmatrix}$$

$$\frac{1}{2} = \begin{pmatrix}
a_{11} & a_{12} - a_{2n} \\
b_{11} & b_{12} - b_{nk}
\end{pmatrix}$$

$$\frac{1}{2} = \begin{pmatrix}
a_{11} & a_{12} - a_{2n} \\
a_{11} & a_{12} - a_{2n}
\end{pmatrix}$$

$$\frac{1}{2} = \begin{pmatrix}
a_{11} & a_{12} - a_{2n} \\
a_{11} & a_{12} - a_{2n}
\end{pmatrix}$$

$$\frac{1}{2} = \begin{pmatrix}
a_{11} & a_{12} - a_{2n} \\
a_{11} & a_{12} - a_{2n}
\end{pmatrix}$$

$$\frac{1}{2} = \begin{pmatrix}
a_{11} & a_{12} - a_{2n} \\
a_{11} & a_{12} - a_{2n}
\end{pmatrix}$$

$$\frac{1}{2} = \begin{pmatrix}
a_{11} & a_{12} - a_{2n} \\
a_{11} & a_{12} - a_{2n}
\end{pmatrix}$$

$$\frac{1}{2} = \begin{pmatrix}
a_{11} & a_{12} - a_{2n} \\
a_{11} & a_{12} - a_{2n}
\end{pmatrix}$$

$$\frac{1}{2} = \begin{pmatrix}
a_{11} & a_{12} - a_{2n} \\
a_{11} & a_{12} - a_{2n}
\end{pmatrix}$$

$$\frac{1}{2} = \begin{pmatrix}
a_{11} & a_{12} - a_{2n} \\
a_{11} & a_{12} - a_{2n}
\end{pmatrix}$$

$$\frac{1}{2} = \begin{pmatrix}
a_{11} & a_{12} - a_{2n} \\
a_{11} & a_{12} - a_{2n}
\end{pmatrix}$$

$$\frac{1}{2} = \begin{pmatrix}
a_{11} & a_{12} - a_{2n} \\
a_{11} & a_{12} - a_{2n}
\end{pmatrix}$$

$$\frac{1}{2} = \begin{pmatrix}
a_{11} & a_{12} - a_{2n} \\
a_{11} & a_{12} - a_{2n}
\end{pmatrix}$$

$$\frac{1}{2} = \begin{pmatrix}
a_{11} & a_{12} - a_{2n} \\
a_{11} & a_{12} - a_{2n}
\end{pmatrix}$$

$$\frac{1}{2} = \begin{pmatrix}
a_{11} & a_{12} - a_{2n} \\
a_{11} & a_{12} - a_{2n}
\end{pmatrix}$$

$$\frac{1}{2} = \begin{pmatrix}
a_{11} & a_{12} - a_{2n} \\
a_{11} & a_{12} - a_{2n}
\end{pmatrix}$$

$$\frac{1}{2} = \begin{pmatrix}
a_{11} & a_{12} - a_{2n} \\
a_{11} & a_{12} - a_{2n}
\end{pmatrix}$$

$$\frac{1}{2} = \begin{pmatrix}
a_{11} & a_{12} - a_{2n} \\
a_{11} & a_{12} - a_{2n}
\end{pmatrix}$$

$$\frac{1}{2} = \begin{pmatrix}
a_{11} & a_{12} - a_{2n} \\
a_{11} & a_{12} - a_{2n}
\end{pmatrix}$$

$$\frac{1}{2} = \begin{pmatrix}
a_{11} & a_{12} - a_{2n} \\
a_{11} & a_{12} - a_{2n}
\end{pmatrix}$$

$$\frac{1}{2} = \begin{pmatrix}
a_{11} & a_{12} - a_{2n} \\
a_{11} & a_{12} - a_{2n}
\end{pmatrix}$$

$$\frac{1}{2} = \begin{pmatrix}
a_{11} & a_{12} - a_{2n} \\
a_{11} & a_{12} - a_{2n}
\end{pmatrix}$$

$$\frac{1}{2} = \begin{pmatrix}
a_{11} & a_{12} - a_{2n} \\
a_{11} & a_{12} - a_{2n}
\end{pmatrix}$$

$$\frac{1}{2} = \begin{pmatrix}
a_{11} & a_{12} - a_{2n} \\
a_{11} & a_{12} - a_{2n}
\end{pmatrix}$$

$$\frac{1}{2} = \begin{pmatrix}
a_{11} & a_{12} - a_{2n} \\
a_{11} & a_{12} - a_{2n}
\end{pmatrix}$$

$$\frac{1}{2} = \begin{pmatrix}
a_{11} & a_{12} - a_{2n} \\
a_{11} & a_{12} - a_{2n}
\end{pmatrix}$$

$$\frac{1}{2} = \begin{pmatrix}
a_{11} & a_{12} - a_{2n} \\
a_{11} & a_{12} - a_{2n}$$

$$\frac{1}{2} = \begin{pmatrix}
a_{11} & a_{12} - a_{2n} \\$$

14 (30 gunopenue non det) Henra AB & Ma(F).
Toroila det (AB) = det A. det B. Do: Offaryhour mag Dor Newson, The $\beta = \begin{pmatrix} A & O \\ * & B \end{pmatrix}_{2n} \quad \text{xorro} \quad * = - E_n, \, \text{Te} \quad \beta = \begin{pmatrix} A & O \\ -1 & B \end{pmatrix}_{2n}$ $\det \beta \stackrel{\text{Denoural}}{=} \det A. \det B$ $u \text{ use useas *eny ze} \quad \det \beta = \det C = \det(As)$ Sn+1 = +by S1 + b21 S2 + ... + bu1 Sn + Sn+1 x Six

()
$$a_{11} = b_{11} a_{11} + b_{21} a_{12} + b_{11} a_{11} + 0 = \frac{2}{K_{21}} a_{12} + b_{11} a_{11} + 0 = \frac{2}{K_{21}} a_{12} + b_{12} a_{12} + c + b_{12} a_{11} + 0 = \frac{2}{K_{21}} a_{12} + c + b_{12} a_{11} + c = \frac{2}{K_{21}} a_{12} + c + b_{12} a_{11} + c = \frac{2}{K_{21}} a_{12} + c + b_{12} a_{11} + c = \frac{2}{K_{21}} a_{12} + c + b_{12} a_{11} + c = \frac{2}{K_{21}} a_{12} + c = \frac$$

det (AB) = det A det = Be gon =

det(AB)= detA detB, det A = detA det (A.B) = det A. det 1 = det A det B = det AB det (At.B) = det At. det B = det A. det B CTENS & CTENS det (At. Bt) = det At. det kt = det A. elet R 1 prusp: | cos(4-fg) cos(4-fg) cos(4-fg) cos(4-fg) cos(4-fg) | cos(4-fg) cos(4-fg)

Cos 21 8 m 21 00 | cos p, cosp cosp cosp cosp cosp cosp son p son Cos(4-64) Cos (4-62) | cos (4-p1) cos (4-p2) | = - - - Cp | cos (2-p2) | = - - Cp | cos (2-p2) | n=2 1 cos (4-pr) /= cos (4-pr) Обратими марици Ми(F), A+B, O, (-A), AB, An + DA $E = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}, \quad ? \exists A^{-1}$ Det. Egna AcMy (F) & napriane affaring and JA-1 EMM(F): AA-1 = A-1 A = E.

Mage A1 ce mapura adjama M.

Man Mage A1 ce mapura adjama M.

Cloba: 1) Axo A-ospannas TO A-1 e egrassas no superenero so n A TR A le egusione en Hos, Da go my onen uponibrerg Tes Ze 3 A' u A" of parsur na A, The AA'=A'A=E 4 AA"=A'A=E , TORGO (A'AA" = (A'A)A" = E.A" = A" (A'AA" = A'(AA") = A'.E = A' = A'. 2) (AB) = B-1A-1, Te ano Au B ca обранни маршун, то АК е серания, порито р-во. \$60! A > 3A-1, B -> 3K-1. Offerglance C=B1A-1 (AB). C = (AR) (B-A-1) = A(BB-1)A-1 = AA-1=E

(AB), C = (AB) (BA) = A(BB) A = AA = E C. (AB) = (B-A-1)(AB) = B-1(AM) B=BB = E => def => C = (AB) =

3/ A-adjoor, JA-1: AA-1=A-1A=E =) A-1 offer 4 (A-1)-1=A 4) AA-1=E, 32 00g. M.A $det(AA^{-1}) = det A \cdot det A^{-1} = det E = 1$ The property of the propertyDet. Egna M. A & Mr. (F) reapproprie neocodena M., and det A + O. angraves.

Neo det A = 0, to A - ocodena marap. The (xpurapui za ad anumour nan) Egna rago. ACMI(F) e adjamma M. (=> A e recedona mont., The A: 3A-1 (=> defA +0

Sbo: =>) A-opponina >> JA-1: AA-1=E => det A +0, det A-1+0, => A-neces. (=) Hera AG Mm (F), necossena M. oder A +0 Duperpro a upolepska, ze yA = EA X = debA

A Y = E,

O debA

Duperpro a upolepska, ze yA = EA ap

$$A^{-1} = \frac{1}{\Delta} \begin{pmatrix} A_{11} \\ A_{12} \\ A_{19} \end{pmatrix}$$

$$A_{11} = \begin{vmatrix} 1 & -3 & 2 \\ 4 & 4 & 2 \\ 1 & 3 & 6 \end{vmatrix}, A_{12} = (1) \begin{vmatrix} 2 & -3 & 2 \\ 3 & 4 & 2 \\ 5 & 3 & 6 \end{vmatrix},$$

$$G_1: A = \begin{pmatrix} a & b \\ c & d \end{pmatrix}, det A = ad-bc \neq 0$$

$$A^{-1} = \frac{1}{\alpha d - bc} \begin{pmatrix} d & -b \\ -c & \alpha \end{pmatrix}$$

IV) A = Mn (F), detA +0 $AX = E \quad \text{uni} \quad XA = E$ $\Rightarrow \quad X = A^{-1}$