Marprugu - gedicolog 4 choa

Hexa IFF e (ruenobo) wone, 0,1,60,  $a^{1}$ Def. Marpruga A naprovacue radius

c m-paga u 17-cionda e entre  $a_{2}$ . G.F.  $A = \begin{pmatrix} a_{11} & a_{12} & --a_{111} \\ a_{21} & a_{22} & --a_{211} \\ a_{41} & a_{42} & --a_{441} \end{pmatrix}$   $A = \begin{pmatrix} a_{11} & a_{42} & --a_{441} \\ a_{21} & a_{22} & --a_{241} \\ a_{41} & a_{42} & --a_{441} \end{pmatrix}$   $A = \begin{pmatrix} a_{11} & a_{42} & --a_{441} \\ a_{21} & a_{22} & --a_{241} \\ a_{41} & a_{42} & --a_{441} \end{pmatrix}$   $A = \begin{pmatrix} a_{11} & a_{42} & --a_{441} \\ a_{41} & a_{42} & --a_{441} \\ a_{41} & a_{42} & --a_{441} \end{pmatrix}$ 

 $P_{p} A = \begin{pmatrix} 123 \\ 012 \end{pmatrix}_{2\times3} \qquad B = \begin{pmatrix} 231 \\ 210 \end{pmatrix}$   $C = \begin{pmatrix} 32 \\ 210 \end{pmatrix}$   $F = \begin{cases} A = (\alpha_g)_{u \times u} \mid \alpha_{uy} \in F \end{cases}$ 

 $F_{u \times n} = \begin{cases} A = (ag)_{u \times n} / aug \in Ff \\ A, B \in F_{u \times u} \Rightarrow A = B \iff ag = bg. \end{cases}$ 

 $A_{1}B \in F_{uxu} \Rightarrow A = B \iff A = B \iff A = A = B \iff A = B$ 

Fuxn, Deformapeur Ordypasse La Marjorage A, B & Fuxn -> C = A+B & Fuxn C = (Cis) uxn = (ay+ by) won  $\begin{pmatrix} 1 & 2 & 3 \\ 0 & 2 & 1 \end{pmatrix} + \begin{pmatrix} 3 & 1 & 4 \\ 1 & 2 & 4 \end{pmatrix} = \begin{pmatrix} 4 & 3 & 7 \\ 1 & 4 & 8 \end{pmatrix}$ MI) асоциативен закон ка "+" нам, Y A,B,CG FWXn! (A+B)+C = A+(B+C) Abo: A=(ag), B=(by), C=(cg) A+B=H=(hg), B+C=K=(kg) (A+B)+C= P=(Ps), A+(B+C)=4=(Us) P=U pij = Uz 18=411 ; 5=417  $P_{ij} = h_{ij} + l_{ij} = (Q_{ij} + l_{ij}) + C_{ij}$   $U_{ij} = Q_{ij} + k_{g} = Q_{ij} + (B_{ij} + C_{g})$  =

H2) They opened (rysels) est b Fux n

yes her range was  $0 = \begin{pmatrix} 0 & 0 & - & 0 \\ 0 & 0 & - & 0 \\ \hline 0 & 0 & - & 0 \end{pmatrix}$ ! A + D = D + A = AM3) + AG Fuxn, F (-A) & Fuxus :
uponilouono po rox
na m. A A + (-A) = (-A) + A = 0 $(-A):=\begin{pmatrix} -\alpha_{11}-\alpha_{12}&-\alpha_{11}\\ -&-&\\ -\alpha_{m_1}-&-&\\ -&\alpha_{m_1}\end{pmatrix}_{m\times n} \begin{pmatrix} A=(\alpha_{ij})_{u_{m_{ij}}}\\ (-A)=(-\alpha_{ij})_{u\times n}\end{pmatrix}$  $A = \begin{pmatrix} 1 & 5 & 6 \\ 2 & 1 & 3 \end{pmatrix} \quad (-A) = \begin{pmatrix} -1 & -5 & -6 \\ -2 & -1 & -3 \end{pmatrix}$ МУ) колизтаться закон на + па ч. HABEFUND ! A+B = B+A (Fuxn, A+B) - aderelo agunibra.

F: 
$$L_1\beta$$
,  $\beta$ ,  $\beta$ .

Formula and by - —

Deformation to comman yuxorem

We so the Formula wo comman (auxono)

 $AEF$  to congrue scarces:

 $AF = (Aaij)_{min}$   $\frac{npunup}{(12)}$ 
 $AF = (Aaij)_{min}$   $\frac{npunup}{(36)}$ 
 $AF = A = (1.agr)$ 
 $AF = A = (1.agr)$ 
 $AF = A = (AF)A$ 

 $\mathcal{L}A + \mathcal{B}A = (\mathcal{L}+\mathcal{B})A$ Fuxon  $\frac{2}{7}A + \frac{5}{7}A = (\frac{2}{7}+\frac{5}{7})A$   $\frac{4}{7}A + \frac{5}{7}A = (\frac{2}{7}+\frac{5}{7})A$ 

M7) 
$$\forall A, B \in Fuxh$$
,  $\forall \lambda \in F$   
 $\lambda A + \lambda B = \lambda (A+B)$   
M8)  $\forall A \in Fuxh$ ,  $\forall \Delta A \in Fuxh$   
 $\exists (S,A) = (J,S) A$   
 $\exists (S,A) = (S,S) A$   
 $\exists (S,A) = (S,S) A$   
 $\exists (S,A) = (S,S) A$   
 $\forall A \in Fuxh$   
 $\exists (S,A) = (A,S) A$   
 $\exists (S,A) = (A,$ 

A+B, AA, AEF

A=

\[
\begin{align\*}
\alpha\_{11} \alpha\_{12} & \alpha\_{11} \\
\alpha\_{21} \alpha\_{22} & \alpha\_{21} \\
\alpha\_{11} \alpha\_{12} & \alpha\_{22} \\
\alpha\_{11} \alpha\_{12} & \alpha\_{11} \\
\alpha\_{12} & \alpha\_{12} & \alpha\_{12} & \alpha\_{12} \\
\alpha\_{12} & \alpha\_{12} & \alpha\_{12} \\
\alpha\_{12} & \alpha\_{12} & \alpha\_{12} & \alpha\_{12} & \alpha\_{12} \\
\alpha\_{12} & \alpha\_{12} & \alpha\_{12} & \alpha\_{12} & \alpha\_{12} & \alpha\_{12} \\
\alpha\_{12} & \alpha\_{12} & \alpha\_{12} & \alpha\_{

du

bropy