8 0x = PON = 0x4 = 02 (4- year vyper) 0- year mariama d-upera Comocon mampuye u un cb-la A-opmorphausing, each r'=~ r'2 = (AF) AF = FTATAF = r2 => ATA=E-onpegenerue 1. det(AB) =detAdetB; detA=detA =>det(AA)=det(E)=1=) => det A= ±1 2. 47 71. 3. A, B-opmer >> C=AB-opmer CTC = (AB) AB = BTATAB=E 4. Our upyring own lett-be - O(3) - royana gam uperop R3
SO(3) - - 4 - deta=1 5. aij = Aij -acrespant gonomerne

6. 50(3) our very regger up more c renglerin morrow

eu = Aeu AESOC3) ez Azer $\overline{Q}_{1}^{\prime} = \begin{bmatrix} Q_{11} & Q_{12} & Q_{13} \\ Q_{11} & Q_{12} & Q_{13} \end{bmatrix} \begin{bmatrix} 1 \\ 0 \\ 0 \end{bmatrix} = \begin{bmatrix} Q_{11} \\ Q_{21} \\ Q_{31} \end{bmatrix}$ A=[e1, e1, e3] Harigen noting years (p())=det(A-NE)= x3-x2trA+)trA-1=0=>)=1-long 12,32 trA-1 + i J1-(4rA-1)" F= PtigEC3 P, q ER Pt= pt-iqt-3pieumbe comp.

=> ceur A-opmanon => FFE C2 MAFIL=NFIL

11711 = JT+ = Hapua novimi bennopa