Genino 10 2505.M.80 1) tie 6 un grup ai. t=e +x EG aturci Gests declian X=e pt + x EG => x=x1 pt +x EG. Eie X, Y E G, aturci XY = (XY) (=> XY = Y X) C=> XY=YX 2) 6 guy au p elements (p pin) -> 6 = < x>, 4x EG/169 >> 6 = (Zp,+) 6 = {e, x --- x n-1 } = Z_1 : x => j 6 grup en 9 elemente - 27 6 = (Ma, +) ran 6= (Kz x Kz +) Fie XEG (x fe 27 ord (x) |4 27 ord (x) E {2,4} []] * EG a i. ord(x) = 4 (<x> = 4 = 16 = 6 = <x> => 6 gry vidic on 4 elevente s G = (Hy +)

$$BA = \begin{pmatrix} 0 & 1 \\ -1 & 0 \end{pmatrix} \begin{pmatrix} \hat{a} & 0 \\ 0 & -i \end{pmatrix} = \begin{pmatrix} 0 & -i \\ i & 0 \end{pmatrix} = AB$$

$$Q = \langle A, B | \text{ord}(A) = \text{ord}(B) = 4, A^2 = B^2 = -I_{e_1}AB = BA \times BA \times B^2 = \frac{1}{2} + \frac{1}{2} +$$

Def Honograp in & s. m. subgrape mormal Jaca Free in h EH over xhx EH (H=6) H = 6 => (6/H) = = (6/H) d = 6/H grup in raport a inultier indusa de pe 6: x. Y=xy Obs {e} = 6, 6 = 6 16:H = 2 => H = 6 Subgrapiny normale ale lin Q H= {IZ} => H=Q $H = 2 \pm I_2$ $\forall x \in Q$, $x(\pm I_z)x' = \pm xx' = \pm I_z \in H \Rightarrow$ on H = Q H = Q (| H | = 4 => [6:H] = \frac{|6|}{|H|} => [Q:H] = $= \frac{|Q|}{|H|} = \frac{8}{4} = 2 \Rightarrow H \triangleleft Q$ |H| = 8 00 H= Q 00 H = Q Obs Foots subgrupurile lui Q sent normale, sor Q nu e obelian. Erwind foctor

Obs
$$G/\{eg\} \simeq G$$

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