For group Go of order 2275 4. Let up denote the number of Sylow p-subgroup. By Third Sylus Thoosen, we have N7 = 1 (mod 7), n7 (52-13 =) N7=1 $N(3 \equiv 1 \pmod{13})$ $N_{13} \mid 5^{2} \cdot \rceil = n_{13} = 1$ bet K7, K13 be the unique Sylw 7-subgroup, 13-subgroup respectively. Then K7 OG, KB OG by Second Sylw Ihm. =) Ky () K13 = 813 Then by Rap 7-3.3, K7 K13 4 K7 X K13 Sine K1, K13 cyclic benne abelian, K7K13 4 K7×K13 is abelian. Y8EG, & K7K138 = SK18 3 K138 = K7K13 = K7K13 G bet Ks be the Sylw 5-subgroup. Choose 8 =1 in K5let H= <8> let SCK1K13 denote all elements of order 91. For hell, ses, Ish eki kis since Kikis a G. (hsh)" = hsht= | if and only if sh= | > hshtes has order of ? Consider action HAS, h*k= tht ES Since Ky Kis & Ky X Kis, IS= | S(ei,ez) & Kyx Kis: eiflor esti?) = 6x12 = 72order of orbit in S should divide (H) 25 SI=12] orbit of order 1. Le.] KES, 8K8=K.

=> K=(8 K81) == 8 K2-1 since k has order of 91 => 8 commutes with all elements in K7KB Thus 48 EKs, & commutes with all elements in K7 K13 By 2nd isom the KSKrK13) < G, | KS(KrK13) = 1 KA KrK13 = 1275-[G] =) Ky (4, (43) = G Y holeks, Kikzekikis hiki luke = luhikike = helikeki (Ko has order of 52 here abolis = he Kehiki =) G=Ks(K1K1S) commutes