Intgroups, normal Sebgroups, Tomonoghims HCG 15 a enlytong of H 10 9 group with E, xh2 = product of h, h2 as elements of G HCG is normal in G (Normahon HAG) if His a subgroup and g Hg^1=H Example of Sz (see homework) If HZIG then a group structure or G/H= Set of Costs 5th, gth (not a subgroup of G!) by setting g, Hxg2H=(9,52) H. g, Hxg, H = 3132 H

Hg2= J2 H (le cause g/Hg2=H) 80 g, H x g2 H = g, (H x g2) H = Si gr H) +1 = 9,52 H. With grip tompeters
Think about how the works and experiment with S3 to see why e.s. the costs of H= 3e, interchange do not form a Eubgroup of you ty this defendant Them. (Kircise)