Problem (3), p. 29 Subgroups of the quedernion The group 13 1,-1,i,-i,j,k,-k It is of order 8 Subgroup of order 1: 1 HI 1 2:1,-1 1,-1,5,-3 1,-1,k,-k H5 Note that these subgroups are abelian while the aroup is not in the subgroups are invaviant. I some specific examples: Hz is inversemt i H3 is i, -1, -1, 1 which is H3