NAME: Tianyi He E-MAIL ADDRESS: th586@scarletmail.rutgers.edu It is OK to post the homework in your web-site

(ii) There exists a special member, usually called e (the idenity member) with the property $g^*e = g$ for every number of G. (iii) For any three numbers of G, g, $g_2, g_3 : (g_1*g_2)*g_3=g_1*(g_2*g_2)$ associativity axiom.

(iv) Every member g of G has a so-called inverse, denoted by $g^{\xi-1}$ with the property $g^*g^{\xi-1} = e$; $g^{\xi-1} * g = e$