	Marine Committee
NAME: ALTAF AHMAD MODERN CLASSMALE ROLL: 18MA 20005 ALGEBRA Date Roge	classnate Date Page
De False. We can consider the group. G = the polynomial signover Fp under addition. We can show that this is an	but we know that 2/01/2 p. 2 to it cannot be p3 otherwise 2(61)=61 So, we are left with prp?
addition. We can show that this is an abelian infinite group. It a?= 0. y a \in Fp. thus, every element has finite or der.	Now if $ \Sigma(G) = p^2 \Rightarrow G Z(G) = p$. $\Rightarrow G Z(G) \Rightarrow cbelion which is not true there exists of Z(G) = p.$
(5) Prese False. Consider Sz. In the we can constant all	G1 is abelian or not consider. I to be the normal sylon-Tsubgroup
subgroup which is cyclic byt S3 is not cyt	Now since V2 Kare abelian groups.
Tone.	Thus, G1 is abeliant too ("Je k are abelian)
P False. For en consider. Se which is not abely	1 131 1 1860 132
butt all subgroups are aormal (we have seen in 6) that they are yelr).	
True . Order of $G = p^2$. Now, $f \circ Z(G)$ = from lagranger flavour there can be by ceres onder = 1.1 PVp², Rd. (: person ps a point)	The second secon
	THE WAY A

