

# The Basics of Abstract Algebra

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Home work problems (Two pages)

Section 5:

51]: Let  $G$  be a group and let  $a$  be one fixed element of  $G$ . Show that

$$H_a = \{ x \in G \mid xa = ax \}$$

is a subgroup of  $G$ .

52]: Generalizing exercise 51, let  $S$  be any subset of

a group  $G$ .

a) Show that  $H_S = \{ x \in G \mid xs = sx \text{ for all } s \in S \}$

is a subgroup of  $G$ .

b) In reference to part a), the subgroup  $H_G$  is the center of  $G$ . Show that  $H_G$  is an abelian group.

54]: For sets  $H$  and  $K$ , we define the intersection  $H \cap K$

$$\text{by: } H \cap K = \{ x \mid x \in H \text{ and } x \in K \}$$

show that if  $H \leq G$  and  $K \leq G$  then  $H \cap K \leq G$ .

Section 6:

52]: Let  $p$  be a prime number. Find the number of generators of the cyclic group  $\mathbb{Z}_{p^r}$  where  $r$  is an integer  $\geq 1$ .

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