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GROUP THEORY EXERCISES AND SOLUTIONS 7 2.9. Let  $G$  be a finite group and  $(G)$  the intersection of all maximal subgroups of  $G$ . Let  $N$  be an abelian minimal normal subgroup of  $G$ . Then  $N$  has a complement in  $G$  if and only if  $N \leq (G)$  Solution Assume that  $N$  has a complement  $H$  in  $G$ . Then  $G = NH$  and  $N \cap H = \{1\}$ . Since  $N$  is abelian and  $H$  is a group,  $(NH) = (N)(H) = NH = HN = (H)N = HN = NH = G$ .

### GROUP THEORY EXERCISES AND SOLUTIONS

The first draft of this collection, including only exercises solved by students as home works, the last ten years, had 160 pages. We felt that there is a need for a book such as this one, because it would provide a nice bridge between introductory Abelian Group Theory and more advanced research problems.

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Exercises in group theory February 2010 Exercise 1\*: Discuss the Exercises in the sections 1.1-1.3 in Chapter I of the notes. Exercise 2: Show that an infinite group  $G$  has to contain a non-trivial subgroup, i.e. a subgroup  $H \neq \{e\}$ ; Exercise 3: Suppose that  $a^2b^2 = (ab)^2$  for all  $a, b$  in the group  $G$ ; Show that  $G$  is abelian. Exercise 4\*: Show that  $h(1;2;3;4);(1;2) = S$

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This group will be discussed in more detail later. If  $2 \text{Sym}(X)$ , then we define the image of  $x$  under to be  $x$ . If  $2 \text{Sym}(X)$ , then the image of  $x$  under the composition is  $x = (x \dots)$ . 1.1.1 Exercises. 1. For each fixed integer  $n > 0$ , prove that  $\mathbb{Z}_n$ , the set of integers modulo  $n$  is a group under  $+$ , where one defines  $a+b = a+b$ .

Group Theory Notes

Therefore  $T$  is a group. It is non abelian since for example  $(1.5) \begin{pmatrix} 2 & 0 & 0 & 1 \\ 2! & 1 & 1 & 0 \\ 1! & 2 & 2 & 0 \\ 2! & 6 & 2 & 1 \end{pmatrix} \begin{pmatrix} 2 & 0 & 0 & 1 \\ 2! & 1 & 1 & 0 \\ 1! & 2 & 2 & 0 \\ 2! & 6 & 2 & 1 \end{pmatrix} = \begin{pmatrix} 1 & 1 & 0 & 1 \\ 2 & 0 & 0 & 2! \\ 1 & 2 & 0 & 2! \\ 1 & 2 & 0 & 2! \end{pmatrix}$ . 1.9. Exercise. Prove the following: (1) The set  $(1.6) SO(2) = \{ \begin{pmatrix} x & -y \\ y & x \end{pmatrix} : x, y \in \mathbb{R}; x^2 + y^2 = 1 \}$  forms an abelian group with respect to matrix multiplication. (SO stands for "special orthogonal".)

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Let  $a$  and  $b$  be two integers. If  $a|b$  and  $b|a$ ; then show that  $a = \pm b$ : Solution: If  $a|b$ ; then  $b = ka$  for some integer  $k$ : If  $b|a$ , then  $a = \pm b$  for some integer  $l$ : Hence  $b = ka = k(\pm b)$ ; then we obtain  $b = k(\pm b) = \pm kb$ : This implies  $b(1 \mp k) = 0$  so either  $b = 0$  or  $k = \pm 1$ : If  $b = 0$ ; then  $a = 0$  and hence  $a = \pm b$  and we are done.

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