

# Abstract Algebra Manual Problems Solutions

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Solution. (I will omit the proof that  $R=\mathbb{Z}$  is a group.) Given  $a, b, c \in \mathbb{Z}$ , note: (a)  $a \sim 0 \in \mathbb{Z}$ ; (b)  $a \sim b \in \mathbb{Z}$  implies  $b \sim a \in \mathbb{Z}$ ; and (c) if  $a \sim b \in \mathbb{Z}$  and  $b \sim c \in \mathbb{Z}$  then  $a \sim c \in \mathbb{Z}$ ; so  $\sim$  is an equivalence relation. Next, we show that the binary operation  $+$  on  $R=\mathbb{Z}$  given by  $a + b = a + b$  is well defined. Suppose  $a = a_0$  and  $b = b_0$  for some  $a, b, a_0, b_0 \in \mathbb{Z}$ .

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Then  $46 = N(1+3\sqrt{-5}) = N(a+b\sqrt{-5})N(c+d\sqrt{-5})$ . If  $N(a+b\sqrt{-5})=1$ , then  $a+b\sqrt{-5}$  is a unit by Exercise 18.1. If  $N(a+b\sqrt{-5})=2$ , then  $a^2+5b^2=2$ , which is impossible. If  $N(a+b\sqrt{-5})=3$ , then  $N(c+d\sqrt{-5})=2$ , which is impossible. If  $N(a+b\sqrt{-5})=46$ , then  $N(c+d\sqrt{-5})=1$  and  $c+d\sqrt{-5}$  is a unit by Exercise 18.1.

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Solution:  $xyz = 1$  implies that  $x(yz) = 1$ : Let  $yz = a$ . Then we have  $xa = 1$  and so  $ax = 1$  since  $a$  is invertible and  $a^{-1} = x$ : (See solution 6) It follows that  $(yz)x = 1$ : Hence  $yzx = 1$ : On the other hand, if  $xyz = 1$ ; it is not always true that  $yxz = 1$ : To see this, let  $G$  be the group of  $2 \times 2$  real matrices and let  $x = \begin{pmatrix} 1 & 2 & 0 & 2 \\ 0 & 1 & 2 & 1 \end{pmatrix}$ ! and  $z = \begin{pmatrix} 1 & 2 & 3 & 4 \\ 1 & 1 & 1 & 1 \end{pmatrix}$ !: Then  $xyz = \begin{pmatrix} 1 & 0 & 0 & 1 \\ 1 & 1 & 1 & 1 \end{pmatrix} = 1$

## EXERCISES AND SOLUTIONS IN GROUPS RINGS AND FIELDS

Gallian's book has selected exercises' solutions (apparently all the odd numbered ones) Weiss's "First Course in Algebra and Number Theory" has lots of solutions. Whitesitt's "Principles of Modern Algebra" has many solutions. Krechmar's "A Problem Book in Algebra" (high school level) has all the solutions. Vinberg's "A Course in Algebra" has ...

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## **Student's Solutions Manual to Abstract Algebra by I.N ...**

of the most typical problems in basic abstract algebra. At the beginning of each chapter, I state many of the major results in Group and Ring Theory, followed by problems and solutions. I do not claim that the solutions in this book are the shortest or the easiest; instead each is based on certain well-known results in the field of abstract ...

## **Contents**

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