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Basics §0.2: Properties of the Integers

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Solution. (I will omit the proof that  $R=Z$  is a group.) Given  $a; b; c \in R$ , note: (a)  $a \sim 0 \in Z$ ; (b)  $a \sim b \in Z$  implies  $b \sim a \in Z$ ; and (c) if  $a \sim b \in Z$  and  $b \sim c \in Z$  then  $a \sim c \in Z$ ; so  $\sim$  is an equivalence relation.

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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  $a_0, b_0 \in \mathbb{Z}$ .

## **MATH 1530**

### **ABSTRACT ALGEBRA**

#### **Selected solutions to problems ...**

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

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Exercise 18.1. If  $N(a+b\sqrt{-5})=2$ , then

$a^2+5b^2=2$ , which is impossible. If  $N(a+b\sqrt{-5})=23$ , 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

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matrices and let  $x = \begin{pmatrix} 1 & 2 \\ 0 & 2 \end{pmatrix}$ ,  $y = \begin{pmatrix} 0 & 1 \\ 2 & 1 \end{pmatrix}$  and  $z = \begin{pmatrix} 1 & 2 & 3 & 4 \\ 1 & 1 & 1 & 1 \end{pmatrix}$ : Then  $xyz = \begin{pmatrix} 1 & 0 & 0 & 1 \end{pmatrix} = 1$

## **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.

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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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abstract algebra. At the beginning of each chapter, I state many of the major results in

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