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Therefore, this is a hands-on manual, where many typical algebraic problems are provided for students to be able to apply the theorems and to actually practice the methods they have learned. Each chapter begins with a statement of a major result in Group and Ring Theory, followed by problems and solutions.

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Abstract Algebra Problems With Solutions

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

EXERCISES AND SOLUTIONS IN GROUPS RINGS AND FIELDS

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Solution. (I will omit the proof that $R=Z$ is a group.) Given $a, b, c \in 2Z$, note: (a) $a + a = 0 \in 2Z$; (b) $a + b \in 2Z$ implies $b + a = (a + b) \in 2Z$; and (c) if $a \in 2Z$ and $b \in 2Z$ then $a + c = (a + b) + (b + c) \in 2Z$; so \sim is an equivalence relation. Next, we show that the binary operation $+$ on $R=Z$ given by $a + b = a + b$ is well defined. Suppose $a = a_0$ and $b = b_0$ for some $a_0, b_0 \in 2Z$.

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