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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 2×2 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 $xyz = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix} = 1$

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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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Solution. (I will omit the proof that $R = \mathbb{Z}$ is a group.) Given $a, b, c \in \mathbb{Z}$, note: (a) $a = 0 \in \mathbb{Z}$; (b) $a \in \mathbb{Z}$ implies $b - a \in \mathbb{Z}$; and (c) if $a \in \mathbb{Z}$ and $b \in \mathbb{Z}$ then $a + b \in \mathbb{Z}$; 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 $a_0, b_0 \in \mathbb{Z}$.

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