

Solutions I.N. Herstein- Second Edition

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Please email me if any corrections at sadiiahzahoor@cantab.net.

Problem 0.1. In the following determine whether the systems described are groups. If they are not, point out which of the group axioms fail to hold.

(a). $G =$ set of integers, $a.b \equiv a - b$.

(b). $G =$ set of all positive integers, $a.b = ab$, the usual product of integers.

(c). $G = a_0, a_1, \dots, a_6$ where,

$$\begin{aligned} a_i.a_j &= a_{i+j} & \text{if } i+j < 7, \\ a_i.a_j &= a_{i+j-7} & \text{if } i+j \geq 7 \end{aligned}$$

(for instance, $a_5.a_4 = a_{5+4-7} = a_2$, since $5+4=9 > 7$).

(d). $G =$ set of all rational numbers with odd denominators, $a.b \equiv a + b$, the usual addition of rational numbers.

Proof. (a). $G =$ set of integers, $a.b \equiv a - b$.

We note G is not a group as there exists no identity in G .

(b). $G =$ set of all positive integers, $a.b = ab$, the usual product of integers.

We note G is not a group as the inverses do not belong in G for all elements of G . For example, inverse of 2 is $\frac{1}{2} \in \mathbb{Z}^+$.

(c). $G = a_0, a_1, \dots, a_6$ where,

$$\begin{aligned} a_i.a_j &= a_{i+j} & \text{if } i+j < 7, \\ a_i.a_j &= a_{i+j-7} & \text{if } i+j \geq 7 \end{aligned}$$

(for instance, $a_5.a_4 = a_{5+4-7} = a_2$, since $5+4=9 > 7$).

We note G has closure by definition.

We claim a_0 is the identity of G . This is because $a_0.a_i = a_i.a_0 = a_{0+i} = a_i \forall i = 1, 2, 3, 4, 5, 6$.

Next we claim the associative law holds in G .

– $i+j < 7, j+k < 7, i+j+k < 7$

Then $(a_i.a_j).a_k = a_{i+j}.a_k = a_{i+j+k}$ and $a_i.(a_j.a_k) = a_i.a_{j+k} = a_{i+j+k}$.

– $i+j < 7, j+k < 7, i+j+k \geq 7$

Then $(a_i.a_j).a_k = a_{i+j}.a_k = a_{i+j+k-7}$ and $a_i.(a_j.a_k) = a_i.a_{j+k} = a_{i+j+k-7}$.

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**Rocco Chirivì, Ilaria Del Corso, Roberto
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