

CHAPTER 4

ELEMENTARY THEORY OF GROUPS

Definition (1.1.) Groupoid.

A system (G, \circ) consisting of a non-empty set G and a binary operation \circ in all the elements of G is called a groupoid.

Definition (1.2.) Semi-group.

A groupoid (G, \circ) is called a semi-group if the binary operation \circ is associative.

Example-set

(1.1) The set Z of integers with binary operation \circ as ordinary subtraction is a groupoid. But $(Z, -)$ is not a semi-group, since the binary operation $(-)$ is not associative.

(1.2) A set G with binary operation \circ defined as

$$a \circ b = -b \quad \forall a, b \in G$$

is a groupoid any also a semi-group, for the binary operation \circ is associative as shown below.

If $a, b, c \in G$, then

$$a \circ (b \circ c) = a \circ c = c.$$

$$(a \circ b) \circ c = b \circ c = c$$

$$a \circ (b \circ c) = (a \circ b) \circ c.$$

therefore

Definition (1.3) a. Identity.

An element e_l of a semi-group (G, \circ) is called a left identity

$$\text{if } e_l \circ a = a \quad \forall a \in G.$$

Similarly e_r is called a right identity if

$$a \circ e_r = a \quad \forall a \in G.$$

Example-set

(1.3) The semi-group $(N, +)$ has no identity either left or right.

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Richard Bailey



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