7.1 SUBGROUPS

Definition 7.1.1

Assume $\langle G, * \rangle$ is a group and $H \subset G$ and $H \neq \phi$. Then H is called a subgroup of G if H itself is a group under operation * in G.

Notation: Write H < G for H subgroup of G.

Subset $H = \{e\}$ and H = G is always a subgroup of group G, which is named as a trivial subgroup. All other subgroup of G is called a non-trivial subgroup or proper subgroup.

Example 7.1.1

Set (Z,+) is a group (Refer Example 7.1.1). Prove that the set E of all even numbers is a non-trivial subgroup under addition in Z.

Proof.

 $E = \{x = 2m | m \in Z\}$. Known that $E \subset Z$ and $E \neq \phi$. Prove 4 properties of group as Definition 7.1.1.

1. Say y = 2n where $n \in \mathbb{Z}$.

Then $x + y = 2m + 2n = 2(m + n) = 2k \in E$ where $k \in Z$. Thus E is closed under addition for all $x, y, z \in E$...

2. Say z = 2p where $p \in Z$.

Then $(x + y) + z = (2m + 2n) + (2p) = 2(m + n + p) = 2q \in E$ where $q \in Z$. And $x + (y + z) = (2m) + (2n + 2p) = 2(m + n + p) = 2q \in E$ where $q \in Z$. Thus E is associative for all $x, y, z \in E$.

- 3. $e + x = x \rightarrow e + 2m = 2m \rightarrow e = 0 = 2(0) \in E$ while $x + e = x \rightarrow 2m + e = 2m \rightarrow e = 0 = 2(0) \in E$ Then an identity under addition for all $x \in E$ is e = 0.
- 4. $x+(-x)=e \rightarrow x+(-x)=0 \rightarrow -x=-2m=2(-m)=2s \in E$ where $s \in Z$ While $-x+x=e \rightarrow -x+x=0 \rightarrow -x=-2m=2(-m)=2s \in E$ Thus there exists an inverse x=2(-m) for every $x \in E$.

 $\langle E, + \rangle$ is a non-trivial subgroup of $\langle Z, + \rangle$ was proven.

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