#### 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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Il'ia losifovich Piatetskii-Shapiro

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#### **Table of Contents Summer Inst On Number Theory Lect Notes**

- 1. Understanding the eBook Summer Inst On Number Theory Lect Notes
  - The Rise of Digital Reading Summer Inst On Number Theory Lect Notes
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Summer Inst On Number Theory Lect Notes
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Summer Inst On Number Theory Lect Notes
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Summer Inst On Number Theory Lect Notes
  - Personalized Recommendations

- Summer Inst On Number Theory Lect Notes User Reviews and Ratings
- Summer Inst On Number Theory Lect Notes and Bestseller Lists
- 5. Accessing Summer Inst On Number Theory Lect Notes Free and Paid eBooks
  - Summer Inst On Number Theory Lect Notes Public Domain eBooks
  - Summer Inst On Number Theory Lect Notes eBook Subscription Services
  - Summer Inst On Number Theory Lect Notes Budget-Friendly Options
- 6. Navigating Summer Inst On Number Theory Lect Notes eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - Summer Inst On Number Theory Lect Notes Compatibility with Devices
  - Summer Inst On Number Theory Lect Notes Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Summer Inst On Number Theory Lect Notes
  - Highlighting and Note-Taking Summer Inst On Number Theory Lect Notes
  - Interactive Elements Summer Inst On Number Theory Lect Notes
- 8. Staying Engaged with Summer Inst On Number Theory Lect Notes
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - $\circ\,$  Following Authors and Publishers Summer Inst On Number Theory Lect Notes
- 9. Balancing eBooks and Physical Books Summer Inst On Number Theory Lect Notes
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Summer Inst On Number Theory Lect Notes
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Summer Inst On Number Theory Lect Notes
  - Setting Reading Goals Summer Inst On Number Theory Lect Notes
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Summer Inst On Number Theory Lect Notes
  - Fact-Checking eBook Content of Summer Inst On Number Theory Lect Notes

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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