

Homework 1 (1.1.1 ~ 1.4.2)

Shanchao Cao

1.1.1

a. $|0\rangle$ is unique.

Proof. (i) $|v\rangle + |0\rangle = |v\rangle$ where $|v\rangle$ is an arbitrary state ket.

(ii) $|v\rangle + |0'\rangle = |v\rangle$

Set $|v\rangle = |0'\rangle$ in (i) $\Rightarrow |0'\rangle + |0\rangle = |0'\rangle$

Set $|v\rangle = |0\rangle$ in (ii) $\Rightarrow |0\rangle + |0'\rangle = |0\rangle$

Therefore, $|0'\rangle = |0'\rangle + |0\rangle \xrightarrow{\text{Commutativity of vector addition}} |0\rangle + |0'\rangle = |0\rangle$.

b. $0|v\rangle = |0\rangle$

Proof. $1|v\rangle = (1+0)|v\rangle = 1|v\rangle + 0|v\rangle$, where $1|v\rangle = |v\rangle$.

Therefore $|v\rangle = |v\rangle + 0|v\rangle$.

Since $|v\rangle$ is arbitrary here, compared with the definition of $|0\rangle$, which is $|v\rangle + |0\rangle = |v\rangle$ for any $|v\rangle$, plus $|0\rangle$ is unique, we can conclude that $0|v\rangle = |0\rangle$.

c. $1-v\rangle = -|v\rangle$

Proof. $|v\rangle + (-|v\rangle) = 0|v\rangle = |0\rangle$ for arbitrary $|v\rangle$. By definition of $1-v\rangle$, which is $|v\rangle + 1-v\rangle = 0$, we can conclude that, $1-v\rangle = -|v\rangle$.

d. $1-v\rangle$ is the unique additive inverse of $|v\rangle$.

Proof: Suppose there exists another vector $|w\rangle$, satisfying $|w\rangle = -|v\rangle$.

$$\begin{aligned} \text{then } |w\rangle + |v\rangle &= -|v\rangle + |v\rangle \\ &= (1-1)|v\rangle \\ &= 0|v\rangle \\ &= |0\rangle \end{aligned}$$

Add $1-v\rangle$ on both sides, we have

$$|w\rangle + |v\rangle + 1-v\rangle = |0\rangle + 1-v\rangle$$

$$\text{LHS} = |w\rangle + (|v\rangle + 1-v\rangle) = |w\rangle + |0\rangle = |w\rangle$$

$$\text{RHS} = 1-v\rangle$$

Therefore, $|w\rangle = 1-v\rangle$.

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Sabine Zange



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Table of Contents Shankar Solution Manual

1. Understanding the eBook Shankar Solution Manual
 - The Rise of Digital Reading Shankar Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Shankar Solution Manual
 - 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 Shankar Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Shankar Solution Manual
 - Personalized Recommendations
 - Shankar Solution Manual User Reviews and Ratings

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