

# Homework 1 (1.1.1 ~ 1.4.2)

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

# Shankar Solution Manual

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Krieg**



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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
  - ePub, PDF, MOBI, and More
  - 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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