

12.8.7 n. 10 (p. 456)

- (a) $\mathbf{b} = (1, -1)$ or $\mathbf{b} = (-1, 1)$.
 (b) $\mathbf{b} = (-1, -1)$ or $\mathbf{b} = (1, 1)$.
 (c) $\mathbf{b} = (-3, -2)$ or $\mathbf{b} = (3, 2)$.
 (d) $\mathbf{b} = (b, -a)$ or $\mathbf{b} = (-b, a)$.

12.8.8 n. 13 (p. 456)

If \mathbf{b} is the required vector, the following conditions must be satisfied

$$\langle \mathbf{a}, \mathbf{b} \rangle = 0 \quad \|\mathbf{b}\| = \|\mathbf{a}\|$$

If $\mathbf{a} = \mathbf{0}$, then $\|\mathbf{a}\| = 0$ and hence $\mathbf{b} = \mathbf{0}$ as well. If $\mathbf{a} \neq \mathbf{0}$, let the coordinates of \mathbf{a} be given by the couple (α, β) , and the coordinates of \mathbf{b} by the couple (x, y) . The above conditions take the form

$$\alpha x + \beta y = 0 \quad x^2 + y^2 = \alpha^2 + \beta^2$$

Either α or β must be different from 0. Suppose α is nonzero (the situation is completely analogous if $\beta \neq 0$ is assumed). Then the first equation gives

$$x = -\frac{\beta}{\alpha}y \tag{12.2}$$

and substitution in the second equation yields

$$\left(\frac{\beta^2}{\alpha^2} + 1\right)y^2 = \alpha^2 + \beta^2$$

that is,

$$y^2 = \frac{\alpha^2 + \beta^2}{\frac{\alpha^2 + \beta^2}{\alpha^2}} = \alpha^2$$

and hence

$$y = \pm\alpha$$

Substituting back in (12.2) gives

$$x = \mp\beta$$

Thus there are only two solutions to the problem, namely, $\mathbf{b} = (-\beta, \alpha)$ and $\mathbf{b} = (\beta, -\alpha)$. In particular,

- (a) $\mathbf{b} = (-2, 1)$ or $\mathbf{b} = (2, -1)$.
 (b) $\mathbf{b} = (2, -1)$ or $\mathbf{b} = (-2, 1)$.
 (c) $\mathbf{b} = (-2, -1)$ or $\mathbf{b} = (2, 1)$.
 (d) $\mathbf{b} = (-1, 2)$ or $\mathbf{b} = (1, -2)$.

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Table of Contents Apostol Real Analysis Solutions

1. Understanding the eBook Apostol Real Analysis Solutions
 - The Rise of Digital Reading Apostol Real Analysis Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Apostol Real Analysis Solutions
 - 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 Apostol Real Analysis Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Apostol Real Analysis Solutions
 - Personalized Recommendations
 - Apostol Real Analysis Solutions User Reviews and Ratings
 - Apostol Real Analysis Solutions and Bestseller Lists

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