

Linear Algebra Final Exam

1:00–3:00, Sunday, June 2

Bradley 102

1 Let $T : \mathbf{R}^3 \longrightarrow \mathbf{R}^3$ be a linear transformation with the property that $T \circ T \circ T = 0$ (we'll refer to $T \circ T \circ T$ as T^3 for the rest of this problem).

- (a) What exactly does this mean? That is, what is the practical upshot when it comes to plugging in vectors to T^3 ?

Solution

It means that $T^3(\mathbf{v}) = \mathbf{0}$ for every vector $\mathbf{v} \in \mathbf{R}^3$.

- (b) Suppose that $\mathbf{x} \in \mathbf{R}^3$ is such that $T^2(\mathbf{x}) = T(T(\mathbf{x})) \neq \mathbf{0}$. If $\mathbf{z} = cT^2(\mathbf{x})$, then what is $T(\mathbf{z})$? Let $\mathbf{y} = c_1T(\mathbf{x}) + c_2T^2(\mathbf{x})$. What is $T^2(\mathbf{y})$?

Solution

Well,

$$T(\mathbf{z}) = T(cT^2(\mathbf{x})) = cT^3(\mathbf{x}) = \mathbf{0}$$

and

$$T^2(\mathbf{y}) = T^2(c_1T(\mathbf{x}) + c_2T^2(\mathbf{x})) = c_1T^3(\mathbf{x}) + c_2T^3(T(\mathbf{x})) = \mathbf{0}.$$

- (c) Let's say

$$\mathbf{b}_1 = \mathbf{x} \quad \mathbf{b}_2 = T(\mathbf{x}), \quad \text{and} \quad \mathbf{b}_3 = T^2(\mathbf{x}).$$

Show that \mathbf{b}_1 is not a linear combination of \mathbf{b}_2 and \mathbf{b}_3 .

Solution

From what we've seen in (b), any linear combination \mathbf{y} of \mathbf{b}_2 and \mathbf{b}_3 has the property that $T^2(\mathbf{y}) = \mathbf{0}$. Since $T^2(\mathbf{b}_1) = T^2(\mathbf{x}) \neq \mathbf{0}$, \mathbf{b}_1 can't be a linear combination of \mathbf{b}_2 and \mathbf{b}_3 .

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Karin Nielsen-Saines



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Table of Contents Linear Algebra Solution Manual Final Exam

1. Understanding the eBook Linear Algebra Solution Manual Final Exam
 - The Rise of Digital Reading Linear Algebra Solution Manual Final Exam
 - Advantages of eBooks Over Traditional Books
2. Identifying Linear Algebra Solution Manual Final Exam
 - 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 Linear Algebra Solution Manual Final Exam
 - User-Friendly Interface
4. Exploring eBook Recommendations from Linear Algebra Solution Manual Final Exam
 - Personalized Recommendations
 - Linear Algebra Solution Manual Final Exam User Reviews and Ratings
 - Linear Algebra Solution Manual Final Exam and Bestseller Lists
5. Accessing Linear Algebra Solution Manual Final Exam Free and Paid eBooks

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