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Chapter 4

Subspaces

4.1 Practice Problems

1. (a) Not a subspace. The vector $0 = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$ is not in the set.

(b) Let S be the set of vectors of the form $\begin{bmatrix} a \\ a-b \\ -2a \end{bmatrix}$. Letting $a = 0$ and $b = 0$, we see that $0 \in S$. Suppose u and v are in S, then $u = \begin{bmatrix} a_1 \\ a_1-b_1 \\ -2a_1 \end{bmatrix}$ and $v = \begin{bmatrix} a_2 \\ a_2-b_2 \\ -2a_2 \end{bmatrix}$. Thus $u+v = \begin{bmatrix} a_1 \\ a_1-b_1 \\ -2a_1 \end{bmatrix} + \begin{bmatrix} a_2 \\ a_2-b_2 \\ -2a_2 \end{bmatrix} = \begin{bmatrix} a_1+a_2 \\ (a_1+a_2)-(b_1+b_2) \\ -2(a_1+a_2) \end{bmatrix} \in S$. Let $r \in \mathbb{R}$ and $u \in S$, then $ru = r\begin{bmatrix} a_1 \\ a_1-b_1 \\ -2a_1 \end{bmatrix} = \begin{bmatrix} ra_1 \\ (ra_1)-(rb_1) \\ -2(ra_1) \end{bmatrix} \in S$, and we conclude that S is a subspace. *(Alternatively, we have $S = \text{span}\left(\begin{bmatrix} 1 \\ 1 \\ -2 \end{bmatrix}, \begin{bmatrix} 0 \\ -1 \\ 0 \end{bmatrix}\right)$, and thus S is a subspace.)*

2. (a) We row-reduce

$$\begin{bmatrix} 1 & 3 & -2 \\ 3 & 0 & -4 \end{bmatrix} \sim \begin{bmatrix} 1 & 3 & -2 \\ 0 & -9 & 2 \end{bmatrix}.$$

Thus, $Ax = 0$ has solutions of the form

$$x = s$$

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Jeffrey A. Fessler,Raj Rao Nadakuditi

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Table of Contents Linear Algebra With Applications Jeffrey Holt Solution

1. Understanding the eBook Linear Algebra With Applications Jeffrey Holt Solution
    - The Rise of Digital Reading Linear Algebra With Applications Jeffrey Holt Solution
    - Advantages of eBooks Over Traditional Books
2. Identifying Linear Algebra With Applications Jeffrey Holt Solution
    - 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 With Applications Jeffrey Holt Solution
    - User-Friendly Interface
4. Exploring eBook Recommendations from Linear Algebra With Applications Jeffrey Holt Solution
    - Personalized Recommendations
    - Linear Algebra With Applications Jeffrey Holt Solution User Reviews and Ratings
    - Linear Algebra With Applications Jeffrey Holt Solution and Bestseller Lists

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