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Chapter 4 Subspaces

4.1 Practice Problems

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

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

$$x = s \begin{bmatrix} 0 \\ 1 \\ 0 \end{bmatrix} + t \begin{bmatrix} 2 \\ 0 \\ 9 \end{bmatrix}.$$

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Rami Shakarchi



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Table of Contents Linear Algebra Solution Manual Jeffrey Holt

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

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