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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  $\begin{bmatrix} a-b \\ a \\ -2a \end{bmatrix}$ . Letting  $a = 0$  and  $b = 0$ , we see that

$0 \in S$ . Suppose  $u$  and  $v$  are in  $S$ , then  $u = \begin{bmatrix} a_1-b_1 \\ a_1 \\ -2a_1 \end{bmatrix}$  and  $v = \begin{bmatrix} a_2-b_2 \\ a_2 \\ -2a_2 \end{bmatrix}$ . Then  $u+v =$

$$\begin{bmatrix} a_1-b_1 \\ a_1 \\ -2a_1 \end{bmatrix} + \begin{bmatrix} a_2-b_2 \\ a_2 \\ -2a_2 \end{bmatrix} = \begin{bmatrix} (a_1+a_2)-(b_1+b_2) \\ (a_1+a_2) \\ -2(a_1+a_2) \end{bmatrix} \in S. \text{ Let } r \in \mathbb{R} \text{ and } u \in S, \text{ then } r u =$$

$$r \begin{bmatrix} a_1-b_1 \\ a_1 \\ -2a_1 \end{bmatrix} = \begin{bmatrix} r(a_1-b_1) \\ r(a_1) \\ -2(r a_1) \end{bmatrix} \in S, \text{ and we conclude that } S \text{ is a subspace. (Alternatively, we$$

have  $S = \text{span} \left\{ \begin{bmatrix} 1 \\ 1 \\ -2 \end{bmatrix}, \begin{bmatrix} -1 \\ 0 \\ 0 \end{bmatrix} \right\}$ , and thus  $S$  is a subspace.)

2. (a) We row-reduce

$$\begin{bmatrix} 1 & 3 & -2 \\ 1 & 0 & -1 \end{bmatrix} \rightarrow \begin{bmatrix} 1 & 3 & -2 \\ 0 & -3 & 1 \end{bmatrix}.$$

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

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

# Instructor Solutions Manual Holt Linear Algebra

**IM Harris**



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The American Mathematical Monthly, 1976 Includes articles as well as notes and other features about mathematics and the profession

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## **Table of Contents Instructor Solutions Manual Holt Linear Algebra**

1. Understanding the eBook Instructor Solutions Manual Holt Linear Algebra
  - The Rise of Digital Reading Instructor Solutions Manual Holt Linear Algebra
  - Advantages of eBooks Over Traditional Books
2. Identifying Instructor Solutions Manual Holt Linear Algebra
  - 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 Instructor Solutions Manual Holt Linear Algebra
  - User-Friendly Interface
4. Exploring eBook Recommendations from Instructor Solutions Manual Holt Linear Algebra
  - Personalized Recommendations
  - Instructor Solutions Manual Holt Linear Algebra User Reviews and Ratings
  - Instructor Solutions Manual Holt Linear Algebra and Bestseller Lists
5. Accessing Instructor Solutions Manual Holt Linear Algebra Free and Paid eBooks
  - Instructor Solutions Manual Holt Linear Algebra Public Domain eBooks
  - Instructor Solutions Manual Holt Linear Algebra eBook Subscription Services
  - Instructor Solutions Manual Holt Linear Algebra Budget-Friendly Options

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