

# 1

## Linear Equations in Linear Algebra

### 1.1 SOLUTIONS

**Notes:** The key exercises are 7 (or 11 or 12), 19–22, and 25. For brevity, the symbols  $R_1, R_2, \dots$ , stand for row 1 (or equation 1), row 2 (or equation 2), and so on. Additional notes are at the end of the section.

$$1. \quad \begin{array}{l} x_1 + 5x_2 = 7 \\ -2x_1 - 7x_2 = -5 \end{array} \quad \left[ \begin{array}{cc|c} 1 & 5 & 7 \\ -2 & -7 & -5 \end{array} \right]$$

Replace  $R_2$  by  $R_2 + (2)R_1$  and obtain:

$$\begin{array}{l} x_1 + 5x_2 = 7 \\ 3x_2 = 9 \end{array} \quad \left[ \begin{array}{cc|c} 1 & 5 & 7 \\ 0 & 3 & 9 \end{array} \right]$$

Scale  $R_2$  by  $1/3$ :

$$\begin{array}{l} x_1 + 5x_2 = 7 \\ x_2 = 3 \end{array} \quad \left[ \begin{array}{cc|c} 1 & 5 & 7 \\ 0 & 1 & 3 \end{array} \right]$$

Replace  $R_1$  by  $R_1 + (-5)R_2$ :

$$\begin{array}{l} x_1 = -8 \\ x_2 = 3 \end{array} \quad \left[ \begin{array}{cc|c} 1 & 0 & -8 \\ 0 & 1 & 3 \end{array} \right]$$

The solution is  $(x_1, x_2) = (-8, 3)$ , or simply  $(-8, 3)$ .

$$2. \quad \begin{array}{l} 3x_1 + 6x_2 = -3 \\ 5x_1 + 7x_2 = 10 \end{array} \quad \left[ \begin{array}{cc|c} 3 & 6 & -3 \\ 5 & 7 & 10 \end{array} \right]$$

Scale  $R_1$  by  $1/3$  and obtain:

$$\begin{array}{l} x_1 + 2x_2 = -1 \\ 5x_1 + 7x_2 = 10 \end{array} \quad \left[ \begin{array}{cc|c} 1 & 2 & -1 \\ 5 & 7 & 10 \end{array} \right]$$

Replace  $R_2$  by  $R_2 + (-5)R_1$ :

$$\begin{array}{l} x_1 + 2x_2 = -1 \\ -3x_2 = 15 \end{array} \quad \left[ \begin{array}{cc|c} 1 & 2 & -1 \\ 0 & -3 & 15 \end{array} \right]$$

Scale  $R_2$  by  $-1/3$ :

$$\begin{array}{l} x_1 + 2x_2 = -1 \\ x_2 = -5 \end{array} \quad \left[ \begin{array}{cc|c} 1 & 2 & -1 \\ 0 & 1 & -5 \end{array} \right]$$

Replace  $R_1$  by  $R_1 + (-2)R_2$ :

$$\begin{array}{l} x_1 = 9 \\ x_2 = -5 \end{array} \quad \left[ \begin{array}{cc|c} 1 & 0 & 9 \\ 0 & 1 & -5 \end{array} \right]$$

The solution is  $(x_1, x_2) = (9, -5)$ , or simply  $(9, -5)$ .

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## **Table of Contents Linear Algebra Lay 4th Edition Solution**

1. Understanding the eBook Linear Algebra Lay 4th Edition Solution
  - The Rise of Digital Reading Linear Algebra Lay 4th Edition Solution
  - Advantages of eBooks Over Traditional Books
2. Identifying Linear Algebra Lay 4th Edition 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 Lay 4th Edition Solution
  - User-Friendly Interface
4. Exploring eBook Recommendations from Linear Algebra Lay 4th Edition Solution
  - Personalized Recommendations
  - Linear Algebra Lay 4th Edition Solution User Reviews and Ratings
  - Linear Algebra Lay 4th Edition Solution and Bestseller Lists
5. Accessing Linear Algebra Lay 4th Edition Solution Free and Paid eBooks
  - Linear Algebra Lay 4th Edition Solution Public Domain eBooks
  - Linear Algebra Lay 4th Edition Solution eBook Subscription Services
  - Linear Algebra Lay 4th Edition Solution Budget-Friendly Options
6. Navigating Linear Algebra Lay 4th Edition Solution eBook Formats

- ePub, PDF, MOBI, and More
- Linear Algebra Lay 4th Edition Solution Compatibility with Devices
- Linear Algebra Lay 4th Edition Solution Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Linear Algebra Lay 4th Edition Solution
  - Highlighting and Note-Taking Linear Algebra Lay 4th Edition Solution
  - Interactive Elements Linear Algebra Lay 4th Edition Solution
- 8. Staying Engaged with Linear Algebra Lay 4th Edition Solution
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Linear Algebra Lay 4th Edition Solution
- 9. Balancing eBooks and Physical Books Linear Algebra Lay 4th Edition Solution
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Linear Algebra Lay 4th Edition Solution
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Linear Algebra Lay 4th Edition Solution
  - Setting Reading Goals Linear Algebra Lay 4th Edition Solution
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Linear Algebra Lay 4th Edition Solution
  - Fact-Checking eBook Content of Linear Algebra Lay 4th Edition 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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