

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 R1, R2, ..., stand for row 1 (or equation 1), row 2 (or equation 2), and so on. Additional notes are at the end of the section.

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

Replace R2 by R2 + (2)R1 and obtain:

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

Scale R2 by 1/3:

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

Replace R1 by R1 + (-5)R2:

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

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

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

Scale R1 by 1/3 and obtain:

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

Replace R2 by R2 + (-5)R1:

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

Scale R2 by -1/3:

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

Replace R1 by R1 + (-2)R2:

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

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 Solutions

1. Understanding the eBook Linear Algebra Lay 4th Edition Solutions
 - The Rise of Digital Reading Linear Algebra Lay 4th Edition Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Linear Algebra Lay 4th Edition Solutions
 - 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 Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Linear Algebra Lay 4th Edition Solutions
 - Personalized Recommendations
 - Linear Algebra Lay 4th Edition Solutions User Reviews and Ratings
 - Linear Algebra Lay 4th Edition Solutions and Bestseller Lists
5. Accessing Linear Algebra Lay 4th Edition Solutions Free and Paid eBooks
 - Linear Algebra Lay 4th Edition Solutions Public Domain eBooks
 - Linear Algebra Lay 4th Edition Solutions eBook Subscription Services
 - Linear Algebra Lay 4th Edition Solutions Budget-Friendly Options
6. Navigating Linear Algebra Lay 4th Edition Solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - Linear Algebra Lay 4th Edition Solutions Compatibility with Devices
 - Linear Algebra Lay 4th Edition Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Linear Algebra Lay 4th Edition Solutions
 - Highlighting and Note-Taking Linear Algebra Lay 4th Edition Solutions
 - Interactive Elements Linear Algebra Lay 4th Edition Solutions
8. Staying Engaged with Linear Algebra Lay 4th Edition Solutions

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Linear Algebra Lay 4th Edition Solutions
- 9. Balancing eBooks and Physical Books Linear Algebra Lay 4th Edition Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Linear Algebra Lay 4th Edition Solutions
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Linear Algebra Lay 4th Edition Solutions
 - Setting Reading Goals Linear Algebra Lay 4th Edition Solutions
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Linear Algebra Lay 4th Edition Solutions
 - Fact-Checking eBook Content of Linear Algebra Lay 4th Edition Solutions
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
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