

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.

$$1. \quad \begin{array}{l} x_1 + 5x_2 = 7 \\ -2x_1 - 7x_2 = -5 \end{array} \quad \begin{bmatrix} 1 & 5 & 7 \\ -2 & -7 & -5 \end{bmatrix}$$

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

$$\begin{array}{l} x_1 + 5x_2 = 7 \\ 3x_2 = 9 \end{array} \quad \begin{bmatrix} 1 & 5 & 7 \\ 0 & 3 & 9 \end{bmatrix}$$

Scale R_2 by $1/3$:

$$\begin{array}{l} x_1 + 5x_2 = 7 \\ x_2 = 3 \end{array} \quad \begin{bmatrix} 1 & 5 & 7 \\ 0 & 1 & 3 \end{bmatrix}$$

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

$$\begin{array}{l} x_1 = -8 \\ x_2 = 3 \end{array} \quad \begin{bmatrix} 1 & 0 & -8 \\ 0 & 1 & 3 \end{bmatrix}$$

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

$$2. \quad \begin{array}{l} 2x_1 + 4x_2 = -4 \\ 5x_1 + 7x_2 = 11 \end{array} \quad \begin{bmatrix} 2 & 4 & -4 \\ 5 & 7 & 11 \end{bmatrix}$$

Scale R_1 by $1/2$ and obtain:

$$\begin{array}{l} x_1 + 2x_2 = -2 \\ 5x_1 + 7x_2 = 11 \end{array} \quad \begin{bmatrix} 1 & 2 & -2 \\ 5 & 7 & 11 \end{bmatrix}$$

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

$$\begin{array}{l} x_1 + 2x_2 = -2 \\ -3x_2 = 21 \end{array} \quad \begin{bmatrix} 1 & 2 & -2 \\ 0 & -3 & 21 \end{bmatrix}$$

Scale R_2 by $-1/3$:

$$\begin{array}{l} x_1 + 2x_2 = -2 \\ x_2 = -7 \end{array} \quad \begin{bmatrix} 1 & 2 & -2 \\ 0 & 1 & -7 \end{bmatrix}$$

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

$$\begin{array}{l} x_1 = 12 \\ x_2 = -7 \end{array} \quad \begin{bmatrix} 1 & 0 & 12 \\ 0 & 1 & -7 \end{bmatrix}$$

The solution is $(x_1, x_2) = (12, -7)$, or simply $(12, -7)$.

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Table of Contents Linear Algebra And Its Applications 3rd Edition Solutions Manual

1. Understanding the eBook Linear Algebra And Its Applications 3rd Edition Solutions Manual
 - The Rise of Digital Reading Linear Algebra And Its Applications 3rd Edition Solutions Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Linear Algebra And Its Applications 3rd Edition Solutions Manual
 - 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 And Its Applications 3rd Edition Solutions Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Linear Algebra And Its Applications 3rd Edition Solutions Manual
 - Personalized Recommendations
 - Linear Algebra And Its Applications 3rd Edition Solutions Manual User Reviews and Ratings
 - Linear Algebra And Its Applications 3rd Edition Solutions Manual and Bestseller Lists
5. Accessing Linear Algebra And Its Applications 3rd Edition Solutions Manual Free and Paid eBooks
 - Linear Algebra And Its Applications 3rd Edition Solutions Manual Public Domain eBooks
 - Linear Algebra And Its Applications 3rd Edition Solutions Manual eBook Subscription Services
 - Linear Algebra And Its Applications 3rd Edition Solutions Manual Budget-Friendly Options
6. Navigating Linear Algebra And Its Applications 3rd Edition Solutions Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Linear Algebra And Its Applications 3rd Edition Solutions Manual Compatibility with Devices
 - Linear Algebra And Its Applications 3rd Edition Solutions Manual Enhanced eBook Features
7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Linear Algebra And Its Applications 3rd Edition Solutions Manual
 - Highlighting and Note-Taking Linear Algebra And Its Applications 3rd Edition Solutions Manual
 - Interactive Elements Linear Algebra And Its Applications 3rd Edition Solutions Manual
8. Staying Engaged with Linear Algebra And Its Applications 3rd Edition Solutions Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Linear Algebra And Its Applications 3rd Edition Solutions Manual
 9. Balancing eBooks and Physical Books Linear Algebra And Its Applications 3rd Edition Solutions Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Linear Algebra And Its Applications 3rd Edition Solutions Manual
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Linear Algebra And Its Applications 3rd Edition Solutions Manual
 - Setting Reading Goals Linear Algebra And Its Applications 3rd Edition Solutions Manual
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Linear Algebra And Its Applications 3rd Edition Solutions Manual
 - Fact-Checking eBook Content of Linear Algebra And Its Applications 3rd Edition Solutions Manual
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
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