

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.

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

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

Scale R_2 by $1/3$:

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

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

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

Scale R_1 by $1/2$ and obtain:

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

Scale R_2 by $-1/3$:

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

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

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

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

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

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

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

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

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

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Yan Bai



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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
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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gratin de légumes recette de gratin de légumes marmiton - Sep 11 2022

web voir toutes les recettes note de l auteur habituellement je me sers de cette recette pour passer mes restes de légumes de la semaine les champignons les aubergines les poivrons plusieurs légumes qui ne sont pas affichés dans la recette peuvent être utilisé