



CHAPTER 1

Systems of Linear Equations and Matrices

CHAPTER CONTENTS

1.1	Introduction to Systems of Linear Equations	2
1.2	Gaussian Elimination	11
1.3	Matrices and Matrix Operations	25
1.4	Inverses; Algebraic Properties of Matrices	39
1.5	Elementary Matrices and a Method for Finding A^{-1}	52
1.6	More on Linear Systems and Invertible Matrices	61
1.7	Diagonal, Triangular, and Symmetric Matrices	67
1.8	Matrix Transformations	75
1.9	Applications of Linear Systems	84
	• Network Analysis (Traffic Flow)	84
	• Electrical Circuits	88
	• Balancing Chemical Equations	88
	• Polynomial Interpolation	91
1.10	Leontief Input-Output Models	96

INTRODUCTION

Information in science, business, and mathematics is often organized into rows and columns to form rectangular arrays called “matrices” (plural of “matrix”). Matrices often appear as tables of numerical data that arise from physical observations, but they occur in various mathematical contexts as well. For example, we will see in this chapter that all of the information required to solve a system of equations such as

$$\begin{aligned} 5x + y &= 3 \\ 2x - y &= 4 \end{aligned}$$

is embodied in the matrix

$$\begin{bmatrix} 5 & 1 & 3 \\ 2 & -1 & 4 \end{bmatrix}$$

and that the solution of the system can be obtained by performing appropriate operations on this matrix. This is particularly important in developing computer programs for solving systems of equations because computers are well suited for manipulating arrays of numerical information. However, matrices are not simply a notational tool for solving systems of equations; they can be viewed as mathematical objects in their own right, and there is a rich and important theory associated with them that has a multitude of practical applications. It is the study of matrices and related topics that forms the mathematical field that we call “linear algebra.” In this chapter we will begin our study of matrices.

Algebra 1 Chapter 1 Linear Funcions

AW Rasmussen



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Table of Contents Algebra 1 Chapter 1 Linear Funcions

1. Understanding the eBook Algebra 1 Chapter 1 Linear Funcions
 - The Rise of Digital Reading Algebra 1 Chapter 1 Linear Funcions
 - Advantages of eBooks Over Traditional Books
2. Identifying Algebra 1 Chapter 1 Linear Funcions
 - 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 Algebra 1 Chapter 1 Linear Funcions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra 1 Chapter 1 Linear Funcions
 - Personalized Recommendations
 - Algebra 1 Chapter 1 Linear Funcions User Reviews and Ratings
 - Algebra 1 Chapter 1 Linear Funcions and Bestseller Lists
5. Accessing Algebra 1 Chapter 1 Linear Funcions Free and Paid eBooks
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 - Algebra 1 Chapter 1 Linear Funcions Budget-Friendly Options
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- ePub, PDF, MOBI, and More
 - Algebra 1 Chapter 1 Linear Functions Compatibility with Devices
 - Algebra 1 Chapter 1 Linear Functions Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Algebra 1 Chapter 1 Linear Functions
 - Highlighting and Note-Taking Algebra 1 Chapter 1 Linear Functions
 - Interactive Elements Algebra 1 Chapter 1 Linear Functions
 8. Staying Engaged with Algebra 1 Chapter 1 Linear Functions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Algebra 1 Chapter 1 Linear Functions
 9. Balancing eBooks and Physical Books Algebra 1 Chapter 1 Linear Functions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Algebra 1 Chapter 1 Linear Functions
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Algebra 1 Chapter 1 Linear Functions
 - Setting Reading Goals Algebra 1 Chapter 1 Linear Functions
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Algebra 1 Chapter 1 Linear Functions
 - Fact-Checking eBook Content of Algebra 1 Chapter 1 Linear Functions
 - 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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