

## 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  $(12, -7)$ .

# Linear Algebra With Applications Fourth Edition Solutions Manual

**Richard C. Penney**



## **Linear Algebra With Applications Fourth Edition Solutions Manual:**

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**Table of Contents** Preface Introduction The Real Number System Sequences of Real Numbers Topology of the Real Numbers Continuous Functions Differentiation Integration Series of Real Numbers Sequences and Series of Functions Fourier Series Bibliography Hints and Answers to Selected Exercises Index Biography

James R. Kirkwood holds a Ph.D. from the University of Virginia. He has authored fifteen published mathematics textbooks on various topics including calculus, real analysis, mathematical biology, and mathematical physics. His original research was in mathematical physics, and he co-authored the seminal paper in a topic now called Kirkwood-Thomas Theory in mathematical physics. During the summer, he teaches real analysis to entering graduate students at the University of Virginia. He has been awarded several National Science Foundation grants. His texts *Elementary Linear Algebra*, *Linear Algebra and Markov Processes* are also published by CRC Press.

*Games, Gambling, and Probability* David G. Taylor, 2021-06-22 Many experiments have shown the human brain generally has very serious problems dealing with probability and chance. A greater understanding of probability can help develop the intuition necessary to approach risk with the ability to make more informed and better decisions. The first four chapters offer the standard content for an introductory probability course, albeit presented in a much different way and order. The chapters afterward include some discussion of different games, different ideas that relate to the law of large numbers, and many more mathematical topics not typically seen in such a book. The use of games is meant to make the book and course feel like fun. Since many of the early games discussed are casino games, the study of those games, along with an understanding of the material in later chapters, should remind you that gambling is a bad idea; you should think of placing

bets in a casino as paying for entertainment Winning can obviously be a fun reward but should not ever be expected Changes for the Second Edition New chapter on Game Theory New chapter on Sports Mathematics The chapter on Blackjack which was Chapter 4 in the first edition appears later in the book Reorganization has been done to improve the flow of topics and learning New sections on Arkham Horror Uno and Scrabble have been added Even more exercises were added The goal for this textbook is to complement the inquiry based learning movement In my mind concepts and ideas will stick with the reader more when they are motivated in an interesting way Here we use questions about various games not just casino games to motivate the mathematics and I would say that the writing emphasizes a just in time mathematics approach Topics are presented mathematically as questions about the games themselves are posed Table of Contents Preface 1 Mathematics and Probability 2 Roulette and Craps Expected Value 3 Counting Poker Hands 4 More Dice Counting and Combinations and Statistics 5 Game Theory Poker Bluffing and Other Games 6 Probability Stochastic Matrices Board Game Movement 7 Sports Mathematics Probability Meets Athletics 8 Blackjack Previous Methods Revisited 9 A Mix of Other Games 10 Betting Systems Can You Beat the System 11 Potpourri Assorted Adventures in Probability Appendices Tables Answers and Selected Solutions Bibliography Biography Dr David G Taylor is a professor of mathematics and an associate dean for academic affairs at Roanoke College in southwest Virginia He attended Lebanon Valley College for his B S in computer science and mathematics and went to the University of Virginia for his Ph D While his graduate school focus was on studying infinite dimensional Lie algebras he started studying the mathematics of various games in order to have a more undergraduate friendly research agenda Work done with two Roanoke College students Heather Cook and Jonathan Marino appears in this book Currently he owns over 100 different board games and enjoys using probability in his decision making while playing most of those games In his spare time he enjoys reading cooking coding playing his board games and spending time with his six year old dog Lilly

**Introductory Linear Algebra with Applications** Bernard Kolman, 1988 This book provides an introduction to the basic ideas computational techniques and applications of linear algebra KEY TOPICS Introductory Linear Algebra with Applications Sixth Edition emphasizes the computational and geometrical aspects of linear algebra while keeping abstraction to a minimum and illustrating every idea with examples It provides three different types of exercises Exercises contains routine exercises Theoretical Exercises includes exercises that fill in gaps in some of the proofs and can be used to challenge the more capable and interested reader The third class consists of MATLAB exercises connected to the available MATLAB disk In addition the end of every chapter contains a summary of Key Ideas for Review a set of Supplementary Exercises and a Chapter Test The sixth edition of Introductory Linear Algebra with Applications has been revised to incorporate recommendations from The Linear Algebra Curriculum Study Group on developing ways to improve instruction in linear algebra A valuable reference book on the basic of linear algebra and its applications for any reader seeking information on the subject *Solutions Manual for Linear Algebra with Applications, Second Edition* Jeanne Agnew, Robert C. Knapp, 1983

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Office,1978-04      **Linear Algebra with Applications, 3rd Edition** W. Keith Nicholson,1994

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