

Solutions to All Exercises

1

Systems of Linear Equations and Matrices

Exercise Set 1.1

In Section 1.1 of the text, Gaussian Elimination is used to solve a linear system. This procedure utilizes three operations that when applied to a linear system result in a new system that is equivalent to the original. Equivalent means that the linear systems have the same solutions. The three operations are:

- Interchange two equations.
- Multiply any equation by a nonzero constant.
- Add a multiple of one equation to another.

When used judiciously these three operations allow us to reduce a linear system to a triangular linear system, which can be solved. A linear system is consistent if there is at least one solution and is inconsistent if there are no solutions. Every linear system has either a unique solution, infinitely many solutions or no solutions. For example, the triangular linear systems

$$\begin{cases} x_1 - x_2 + x_3 = 2 \\ x_2 - 2x_3 = -1 \\ x_3 = 2 \end{cases}, \quad \begin{cases} x_1 - 2x_2 + x_3 = 2 \\ -x_2 + 2x_3 = -3 \\ x_3 = 2 \end{cases}, \quad \begin{cases} 2x_1 + x_2 = 1 \\ x_2 - x_3 = 2 \\ 0 = 4 \end{cases}$$

have a unique solution, infinitely many solutions, and no solutions, respectively. In the second linear system, the variable x_3 is a free variable, and once assigned any real number the values of x_1 and x_2 are determined. In this way the linear system has infinitely many solutions. If a linear system has the same form as the second system, but also has the additional equation $0 = 0$, then the linear system will still have free variables. The third system is inconsistent since the last equation $0 = 4$ is impossible. In some cases, the conditions on the right hand side of a linear system are not specified. Consider for example, the linear system

$$\begin{cases} -x_1 - x_2 = a \\ 2x_1 + 2x_2 + x_3 = b \\ 2x_3 = c \end{cases} \text{ which is equivalent to } \begin{cases} -x_1 - x_2 = a \\ x_3 = b + 2a \\ 0 = c - 2b - 4a \end{cases}$$

This linear system is consistent only for values a, b and c such that $c - 2b - 4a = 0$.

Solutions to Exercises

1. Applying the given operations we obtain the equivalent triangular system

$$\begin{cases} x_1 - x_2 - 2x_3 = 3 \\ -x_1 + 2x_2 + 3x_3 = 1 \\ 2x_1 - 2x_2 - 2x_3 = -2 \end{cases} \xrightarrow{E_1 + E_2 \rightarrow E_2} \begin{cases} x_1 - x_2 - 2x_3 = 3 \\ x_2 + x_3 = 4 \\ 2x_1 - 2x_2 - 2x_3 = -2 \end{cases} \xrightarrow{(-2)E_1 + E_3 \rightarrow E_3}$$

Linear Algebra DeFranza Solutions

Jim DeFranza, Daniel Gagliardi



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Introduction to Linear Algebra with Applications Jim DeFranza, Daniel Gagliardi, 2015-01-23 Over the last few decades linear algebra has become more relevant than ever Applications have increased not only in quantity but also in diversity with linear systems being used to solve problems in chemistry engineering economics nutrition urban planning and more DeFranza and Gagliardi introduce students to the topic in a clear engaging and easy to follow manner Topics are developed fully before moving on to the next through a series of natural connections The result is a solid introduction to linear algebra for undergraduates first course

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Supplementary Appendices with Graphing Calculator Examples for Holder, De Franza and Pasachoff's Calculus, Multivariable Calculus, & Single Variable Calculus, 1995

Introduction To Algebra Dr. T. N. Purohit, Algebra is the branch of mathematics where symbols or variables are used to represent numbers and quantities allowing us to express and solve general relationships rather than just specific numerical cases It extends arithmetic by introducing variables like x y etc and studying equations expressions and functions involving these symbols At elementary level algebra helps in solving linear and quadratic equations and manipulating formulas in more advanced forms modern or abstract algebra it deals with algebraic structures like groups rings fields and so on Definitions of variables constants expressions and equations Order of operations and how to evaluate simplify expressions Rules for arithmetic with positive and negative numbers Use and manipulation of brackets parentheses distributive property combining like terms Solving linear equations in one variable Understanding and using inequalities Working with exponents including negative and fractional exponents Factorization of polynomials finding common factors and simple factoring techniques Graphing linear functions and interpreting their meaning slope intercept

Student's Solutions Manual t/a Intro to Linear Algebra James DeFranza, 2008-10-03

Indian National Bibliography, 2015-07

Solutions Manual for Lang's Linear Algebra Rami Shakarchi, 1996-08-09 This solutions manual for Lang's Undergraduate

Analysis provides worked out solutions for all problems in the text They include enough detail so that a student can fill in the intervening details between any pair of steps **Linear Algebra** Michael O'Nan,1976 *Mathematical Reviews* ,1999

Abstracts of Papers Presented to the American Mathematical Society American Mathematical Society,1989

Student Solutions Manual for Linear Algebra with Applications Kyle Burke,Otto Bretscher,2013 This manual contains completely worked out solutions for all the odd numbered exercises in the text *Linear Algebra, Solutions Manual* Richard C. Penney,2015-12-21 This Student Solutions Manual to Accompany Linear Algebra Ideas and Applications Fourth Edition contains solutions to the odd numbered problems to further aid in reader comprehension and an Instructor s Solutions Manual inclusive of suggested syllabi is available via written request to the Publisher Both the Student and Instructor Manuals have been enhanced with further discussions of the applications sections which is ideal for readers who wish to obtain a deeper knowledge than that provided by pure algorithmic approaches Linear Algebra Ideas and Applications Fourth Edition provides a unified introduction to linear algebra while reinforcing and emphasizing a conceptual and hands on understanding of the essential ideas Promoting the development of intuition rather than the simple application of methods this book successfully helps readers to understand not only how to implement a technique but why its use is important

Solutions Manual [for] Linear Algebra Henry G. Jacob,Duane W. Bailey,1971 *Demonstratio mathematica* ,2002

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Rorres,1979 **Elementary Linear Algebra** Charles Henry Edwards,Edwards,David E. Penney,1988 Practice Makes Perfect Linear Algebra (EBOOK) Sandra Luna McCune,William D. Clark,2013-01-04 Expert instruction and plenty of practice to reinforce advanced math skills Presents concepts with application to natural sciences engineering economics computer science and other branches of mathematics Complementary to most linear algebra courses or as a refresher text More than 500 exercises and answers Hundreds of solved problems The Practice Makes Perfect series has sold more than 1 million copies worldwide **Elementary Linear Algebra, Student Solutions Manual** Howard Anton,Elizabeth M.

Grobe,1991-01-16 As the most widely used text on elementary linear algebra this book in its 18th year of publication has been substantially revised and updated The most significant changes are in the reorganization to allow for earlier coverage of eigenvalues and eigenvectors Additionally there are major improvements in exposition some new text material changes and additions to the exercises plus new supplementary software and computer oriented course materials As with previous editions the aim is to present the fundamentals of linear algebra clearly with basic ideas studied by means of computational examples and geometrical interpretation wherever possible The proofs are presented so that they will be understood by beginning students with more difficult proofs placed in optional sections Answers to all problems are given at the end of the text **Linear Algebra with Applications** Charles G. Cullen,1997-01-01

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