

# 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

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

# Introduction To Linear Algebra Defranza Solution Manual

**Howard Anton, Elizabeth M. Grobe**



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**Introduction to Linear Algebra** Lee W. Johnson, R. Dean Reiss, Jimmy T. Arnold, 2000-07-01

**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 Solution's Manual Eric Carlen, 2007-04-13

*Introduction to Linear Algebra* Geza Schay, Dennis Wortman, 1997-03-01

**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

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

Instructor's Solutions Manual Steven J. Leon, 1997

**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

Solution's Manual - Advanced Linear Algebra Taylor & Francis Group, 2010-05-21

Linear Algebra with Applications, 3rd Edition W. Keith Nicholson, 1994

**Linear Algebra with Applications** W. Keith Nicholson, 2018-08-23

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

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**Solution Manual Elementary Linear Algebra 2ND Edit Ion** Howard Anton, 1977-04-01

[Student Solutions Manual to Accompany an Introduction to Linear Algebra with Applications](#) Paul N. DeLand, 1985

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[Linear Algebra with Mathematica, Student Solutions Manual](#) Fred Szabo, 2000-09-07 This book introduces interested readers practitioners and researchers to Mathematica methods for solving practical problems in linear algebra It contains step by step solutions of problems in computer science economics engineering mathematics statistics and other areas of application Each chapter contains both elementary and more challenging problems grouped by fields of application and ends with a set of exercises

Selected answers are provided in an appendix The book contains a glossary of definitions and theorem as well as a summary of relevant Mathematica tools Applications of Linear Algebra can be used both in laboratory sessions and as a source of take home problems and projects Concentrates on problem solving and aims to increase the readers analytical skills Provides ample opportunities for applying theoretical results and transferring knowledge between different areas of application Mathematica plays a key role in this process Makes learning fun and builds confidence Allows readers to tackle computationally challenging problems by minimizing the frustration caused by the arithmetic intricacies of numerical linear algebra

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