

Linear Algebra Vector Spaces

4.3 SOLUTIONS

Notes: The definition for basis is given initially for subspaces because this emphasizes that the basis elements must be in the subspace. Students often overlook this point when the definition is given for a vector space (see Exercise 25). The subsection on bases for $\text{Nul } A$ and $\text{Col } A$ is essential for Sections 4.5 and 4.6. The subsection on “Two Views of a Basis” is also fundamental to understanding the interplay between linearly independent sets, spanning sets, and bases. Key exercises in this section are Exercises 21–25, which help to deepen students’ understanding of these different subsets of a vector space.

1. Consider the matrix whose columns are the given set of vectors. This 3×3 matrix is in echelon form, and has 3 pivot positions. Thus by the Invertible Matrix Theorem, its columns are linearly independent and span \mathbb{R}^3 . So the given set of vectors is a basis for \mathbb{R}^3 .
2. Since the zero vector is a member of the given set of vectors, the set cannot be linearly independent and thus cannot be a basis for \mathbb{R}^3 . Now consider the matrix whose columns are the given set of vectors. This 3×3 matrix has only 2 pivot positions. Thus by the Invertible Matrix Theorem, its columns do not span \mathbb{R}^3 .
3. Consider the matrix whose columns are the given set of vectors. The reduced echelon form of this matrix is

$$\left[\begin{array}{ccc} 1 & 3 & -3 \\ 0 & 2 & -5 \\ -2 & -4 & 1 \end{array} \right] \sim \left[\begin{array}{ccc} 1 & 0 & 9/2 \\ 0 & 1 & -5/2 \\ 0 & 0 & 0 \end{array} \right]$$

so the matrix has only two pivot positions. Thus its columns do not form a basis for \mathbb{R}^3 ; the set of vectors is neither linearly independent nor does it span \mathbb{R}^3 .

4. Consider the matrix whose columns are the given set of vectors. The reduced echelon form of this matrix is

$$\left[\begin{array}{ccc} 2 & 1 & -7 \\ -2 & -3 & 5 \\ 1 & 2 & 4 \end{array} \right] \sim \left[\begin{array}{ccc} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{array} \right]$$

so the matrix has three pivot positions. Thus its columns form a basis for \mathbb{R}^3 .

5. Since the zero vector is a member of the given set of vectors, the set cannot be linearly independent and thus cannot be a basis for \mathbb{R}^3 . Now consider the matrix whose columns are the given set of vectors. The reduced echelon form of this matrix is

$$\left[\begin{array}{cccc} 1 & -2 & 0 & 0 \\ -3 & 9 & 0 & -3 \\ 0 & 0 & 0 & 5 \end{array} \right] \sim \left[\begin{array}{cccc} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{array} \right]$$

so the matrix has a pivot in each row. Thus the given set of vectors spans \mathbb{R}^3 .

Solution Manual Linear Algebra Vector Spaces

Charles R. Hadlock

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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

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

Bailey, 1971 *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

Solutions Manual to accompany Analysis in Vector Spaces Mustafa A. Akcoglu, Paul F. A. Bartha, Dzung Minh Ha, 2009-04-13 A rigorous introduction to calculus in vector spaces. The concepts and theorems of advanced calculus combined with related

computational methods are essential to understanding nearly all areas of quantitative science. *Analysis in Vector Spaces* presents the central results of this classic subject through rigorous arguments, discussions and examples. The book aims to cultivate not only knowledge of the major theoretical results but also the geometric intuition needed for both mathematical problem solving and modeling in the formal sciences. The authors begin with an outline of key concepts, terminology and notation and also provide a basic introduction to set theory, the properties of real numbers and a review of linear algebra. An elegant approach to eigenvector problems and the spectral theorem sets the stage for later results on volume and integration. Subsequent chapters present the major results of differential and integral calculus of several variables as well as the theory of manifolds. Additional topical coverage includes Sets and functions, Real numbers, Vector functions, Normed vector spaces, First and higher order derivatives, Diffeomorphisms and manifolds, Multiple integrals, Integration on manifolds, Stokes theorem, Basic point set topology. Numerous examples and exercises are provided in each chapter to reinforce new concepts and to illustrate how results can be applied to additional problems. Furthermore, proofs and examples are presented in a clear style that emphasizes the underlying intuitive ideas. Counterexamples are provided throughout the book to warn against possible mistakes and extensive appendices outline the construction of real numbers, include a fundamental result about dimension and present general results about determinants. Assuming only a fundamental understanding of linear algebra and single variable calculus, *Analysis in Vector Spaces* is an excellent book for a second course in analysis for mathematics, physics, computer science and engineering majors at the undergraduate and graduate levels. It also serves as a valuable

reference for further study in any discipline that requires a firm understanding of mathematical techniques and concepts

Linear Algebra, Solutions Manual Richard C. Penney, 2015-12-17 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

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Advanced Engineering Mathematics, 10e Volume 1: Chapters 1 - 12 Student Solutions Manual and Study Guide Herbert Kreyszig, Erwin Kreyszig, 2012-01-17 Student Solutions Manual to accompany Advanced Engineering Mathematics 10e The tenth edition of this bestselling text includes examples in more detail and more applied exercises both changes are aimed at making the material more relevant and accessible to readers Kreyszig introduces engineers and computer scientists to advanced math topics as they relate to practical problems It goes into the following topics at great depth differential equations partial differential equations Fourier analysis vector analysis complex analysis and linear algebra differential equations

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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 *Supplementary Material and Solutions Manual for Mathematical Modeling in the Environment* Charles R. Hadlock,2020-05-05 This manual is meant to provide supplementary material and solutions to the exercises used in Charles Hadlock's textbook Mathematical Modeling in the Environment The manual is invaluable to users of the textbook as it contains complete solutions and often further discussion of essentially every exercise the author presents in his book This includes both the mathematical computational exercises as well as the research questions and investigations Since the exercises in the textbook are very rich in content rather than simple mechanical problems and cover a wide range most readers will not have the time to work out every one on their own Readers can thus still benefit greatly from perusing solutions to problems they have at least thought about briefly Students using this manual still need to work out solutions to research questions using their own sources and adapting them to their own geographic locations or to numerical problems using their own computational schemes so this manual will be a useful guide to students in many course contexts Enrichment material is included on the topics of some of the exercises Advice for teachers who lack previous environmental experience but who want to teach this material is also provided and makes it practical for such persons to offer a course based on these volumes This book is the essential companion to Mathematical Modeling in the Environment *Elementary Linear Algebra* Howard Anton,1999-05-26 *Student Solutions Manual to Accompany Linear Algebra with Applications* Gareth Williams,2010-03-18 **Linear Algebra, Students Solutions Manual** Terry Lawson,1996-03-30 High level linear algebra book that blends both computational and theoretical aspects using each to enhance the other Explains the key points of the Gaussian elimination algorithm Discusses vector spaces and linear transformations using matrix computations Takes advantage of software packages such as MATLAB Mathematica and Maple **Elementary Linear Algebra, Student Solutions Manual** Howard Anton,2006-02-03 This classic treatment of linear algebra presents the fundamentals in the clearest possible way examining basic ideas by means of computational examples

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