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 Nul A and 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 $\mathbf{R}^3$. So the given set of vectors is a basis for $\mathbf{R}^3$.

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 $\mathbf{R}^3$. 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 $\mathbf{R}^3$.

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

$$\begin{bmatrix} 1 & 3 & -3 \\ 0 & 2 & -5 \\ -2 & -4 & 1 \end{bmatrix} \sim \begin{bmatrix} 1 & 0 & 9/2 \\ 0 & 1 & -5/2 \\ 0 & 0 & 0 \end{bmatrix}$$

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

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

$$\begin{bmatrix} 2 & 1 & -7 \\ -2 & -3 & 5 \\ 1 & 2 & 4 \end{bmatrix} \sim \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$$

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

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 $\mathbf{R}^3$. Now consider the matrix whose columns are the given set of vectors. The reduced echelon form of this matrix is

$$\begin{bmatrix} 1 & -2 & 0 & 0 \\ -3 & 9 & 0 & -3 \\ 0 & 0 & 0 & 5 \end{bmatrix} \sim \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}$$

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

Solution Manual Linear Algebra Vector Spaces

Howard Anton,Elizabeth M. Grobe,Chris Rorres,Charles A. Grobe

Solution Manual Linear Algebra Vector Spaces:

Solutions Manual for Lang's Linear Algebra Rami Shakarchi,2012-12-06 The present volume contains all the exercises and their solutions of Lang s Linear Algebra Solving problems being an essential part of the learning process my goal is to provide those learning and teaching linear algebra with a large number of worked out exercises Lang s textbook covers all the topics in linear algebra that are usually taught at the undergraduate level vector spaces matrices and linear maps including eigenvectors and eigenvalues determinants diagonalization of symmetric and hermitian maps unitary maps and matrices triangulation Jordan canonical form and convex sets Therefore this solutions manual can be helpful to anyone learning or teaching linear algebra at the college level As the understanding of the first chapters is essential to the comprehension of the later more involved chapters I encourage the reader to work through all of the problems of Chapters I II III and IV Often earlier exercises are useful in solving later problems For example Exercise 35 3 of Chapter II shows that a strictly upper triangular matrix is nilpotent and this result is then used in Exercise 7 1 of Chapter X To make the solutions concise I have included only the necessary arguments the reader may have to fill in the details to get complete proofs Finally I thank Serge Lang for giving me the opportunity to work on this solutions manual and I also thank my brother Karim and Steve Miller for their helpful comments and their support **Student Solutions Manual to Accompany Linear Algebra with Applications** Gareth Williams,2010-03-18 Elementary Linear Algebra, Students Solutions Manual Stephen Andrilli,David Hecker,2010-03-13 Elementary Linear Algebra Students Solutions Manual *Elementary Linear Algebra, Students Solutions Manual (e-only)* Stephen Andrilli,David Hecker,2010-04-24 **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 *Student Solutions Manual, Partial Differential Equations & Boundary Value Problems with Maple* George A. Articolo,2009-07-22 Student Solutions Manual Partial Differential Equations Boundary Value Problems with Maple 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 **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 **Linear Algebra with Maple, Lab Manual** Fred Szabo,2001-08-23 Linear Algebra An Introduction Using MAPLE is a text for a first undergraduate course in linear algebra All students majoring in mathematics computer science engineering physics chemistry economics statistics actuarial mathematics and other such fields of study will benefit from this text The presentation is matrix based and covers the standard topics for a first course recommended by the Linear Algebra Curriculum Study Group The aim of the book is to make linear algebra accessible to all college majors through a focused presentation of the material enriched by interactive learning and teaching with MAPLE Development of analytical and computational skills is emphasized throughout Worked examples provide step by step methods for solving basic problems using Maple The subject s rich pertinence to problem solving across disciplines is illustrated with applications in engineering the natural sciences computer animation and statistics **Solutions Manual [for] Linear Algebra** Henry G. Jacob,Duane W. Bailey,1971 **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

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correspondant au mot védique sanskrit sindhu cours d eau devenu nom propre de l indus 14

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web nom commun français hindouisme orthographe traditionnelle ɛ du ism ou ɛ dwism masculin religion religion comptant environ un milliard de fidèles originaire d inde et présente surtout dans ce sous continent et en indonésie

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web brahmanisme ancien et hindouisme il est impossible de séparer de façon nette cet ensemble religieux qu est l hindouisme de celui qu on a désigné arbitrairement comme brahmanisme ancien et qui connaîtra du reste plusieurs reviviscences au cours des siècles tandis qu autour de lui l hindouisme se développe de manière continue