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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 R1, R2, ..., 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. $\begin{aligned} x_1 + 5x_2 &= 7 \\ -2x_1 - 7x_2 &= -5 \end{aligned}$ $\quad \begin{bmatrix} 1 & 5 & 7 \\ -2 & -7 & -5 \end{bmatrix}$

Replace R2 by R2 + (2)R1 and obtain: $\quad \begin{aligned} x_1 + 5x_2 &= 7 \\ 3x_2 &= 9 \end{aligned}$ $\quad \begin{bmatrix} 1 & 5 & 7 \\ 0 & 3 & 9 \end{bmatrix}$

Scale R2 by 1/3: $\quad \begin{aligned} x_1 + 5x_2 &= 7 \\ x_2 &= 3 \end{aligned}$ $\quad \begin{bmatrix} 1 & 5 & 7 \\ 0 & 1 & 3 \end{bmatrix}$

Replace R1 by R1 + (−5)R2: $\quad \begin{aligned} x_1 &= -8 \\ x_2 &= 3 \end{aligned}$ $\quad \begin{bmatrix} 1 & 0 & -8 \\ 0 & 1 & 3 \end{bmatrix}$

The solution is $(x_1, x_2) = (-8, 3)$, or simply $(-8, 3)$.

2. $\begin{aligned} 2x_1 + 4x_2 &= -4 \\ 5x_1 + 7x_2 &= 11 \end{aligned}$ $\quad \begin{bmatrix} 2 & 4 & -4 \\ 5 & 7 & 11 \end{bmatrix}$

Scale R1 by 1/2 and obtain: $\quad \begin{aligned} x_1 + 2x_2 &= -2 \\ 5x_1 + 7x_2 &= 11 \end{aligned}$ $\quad \begin{bmatrix} 1 & 2 & -2 \\ 5 & 7 & 11 \end{bmatrix}$

Replace R2 by R2 + (−5)R1: $\quad \begin{aligned} x_1 + 2x_2 &= -2 \\ -3x_2 &= 21 \end{aligned}$ $\quad \begin{bmatrix} 1 & 2 & -2 \\ 0 & -3 & 21 \end{bmatrix}$

Scale R2 by −1/3: $\quad \begin{aligned} x_1 + 2x_2 &= -2 \\ x_2 &= -7 \end{aligned}$ $\quad \begin{bmatrix} 1 & 2 & -2 \\ 0 & 1 & -7 \end{bmatrix}$

Replace R1 by R1 + (−2)R2: $\quad \begin{aligned} x_1 &= 12 \\ x_2 &= -7 \end{aligned}$ $\quad \begin{bmatrix} 1 & 0 & 12 \\ 0 & 1 & -7 \end{bmatrix}$

The solution is $(x_1, x_2) = (12, -7)$, or simply $(12, -7)$.

Linear Algebra 3rd Edition Lang Solution Manual

Julio Sanchez,Maria P. Canton

Linear Algebra 3rd Edition Lang Solution Manual:

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 Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office,1972 **Software Solutions for Engineers and Scientists** Julio Sanchez,Maria P. Canton,2018-03-22 Software requirements for engineering and scientific applications are almost always computational and possess an advanced mathematical component However an application that calls for calculating a statistical function or performs basic differentiation of integration cannot be easily developed in C or most programming languages In such a case the engineer or scientist must assume the role of software developer And even though scientists who take on the role as programmer can sometimes be the originators of major software products they often waste valuable time developing algorithms that lead to untested and unreliable routines Software Solutions for Engineers and Scientists addresses the ever present demand for professionals to develop their own software by supplying them with a toolkit and problem solving resource for developing computational applications The authors provide shortcuts to avoid complications bearing in mind the technical and mathematical ability of their audience The first section introduces the basic concepts of number systems storage of numerical data and machine arithmetic Chapters on the Intel math unit architecture data conversions and the details of math unit programming establish a framework for developing routines in engineering and scientific code The second part entitled Application Development covers the implementation of a C program and flowcharting A tutorial on Windows programming supplies skills that allow readers to create professional quality programs The section on project engineering examines the software engineering field describing its common qualities principles and paradigms This is followed by a discussion on the description and specification of software projects including object oriented approaches to software development With the

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