

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 R_1, R_2, \dots , stand for row 1 (or equation 1), row 2 (or equation 2), and so on. Additional notes are at the end of the section.

$$1. \quad \begin{array}{l} x_1 + 5x_2 = 7 \\ -2x_1 - 7x_2 = -5 \end{array} \quad \left[\begin{array}{cc|c} 1 & 5 & 7 \\ -2 & -7 & -5 \end{array} \right]$$

Replace R_2 by $R_2 + (2)R_1$ and obtain:

$$\begin{array}{l} x_1 + 5x_2 = 7 \\ 3x_2 = 9 \end{array} \quad \left[\begin{array}{cc|c} 1 & 5 & 7 \\ 0 & 3 & 9 \end{array} \right]$$

Scale R_2 by $1/3$:

$$\begin{array}{l} x_1 + 5x_2 = 7 \\ x_2 = 3 \end{array} \quad \left[\begin{array}{cc|c} 1 & 5 & 7 \\ 0 & 1 & 3 \end{array} \right]$$

Replace R_1 by $R_1 + (-5)R_2$:

$$\begin{array}{l} x_1 = -8 \\ x_2 = 3 \end{array} \quad \left[\begin{array}{cc|c} 1 & 0 & -8 \\ 0 & 1 & 3 \end{array} \right]$$

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

$$2. \quad \begin{array}{l} 2x_1 + 4x_2 = -4 \\ 5x_1 + 7x_2 = 11 \end{array} \quad \left[\begin{array}{cc|c} 2 & 4 & -4 \\ 5 & 7 & 11 \end{array} \right]$$

Scale R_1 by $1/2$ and obtain:

$$\begin{array}{l} x_1 + 2x_2 = -2 \\ 5x_1 + 7x_2 = 11 \end{array} \quad \left[\begin{array}{cc|c} 1 & 2 & -2 \\ 5 & 7 & 11 \end{array} \right]$$

Replace R_2 by $R_2 + (-5)R_1$:

$$\begin{array}{l} x_1 + 2x_2 = -2 \\ -3x_2 = 21 \end{array} \quad \left[\begin{array}{cc|c} 1 & 2 & -2 \\ 0 & -3 & 21 \end{array} \right]$$

Scale R_2 by $-1/3$:

$$\begin{array}{l} x_1 + 2x_2 = -2 \\ x_2 = -7 \end{array} \quad \left[\begin{array}{cc|c} 1 & 2 & -2 \\ 0 & 1 & -7 \end{array} \right]$$

Replace R_1 by $R_1 + (-2)R_2$:

$$\begin{array}{l} x_1 = 12 \\ x_2 = -7 \end{array} \quad \left[\begin{array}{cc|c} 1 & 0 & 12 \\ 0 & 1 & -7 \end{array} \right]$$

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

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Otto Bretscher



Linear Algebra Solution Manual Lay:

Instructor's Solutions Manual [to Accompany] Linear Algebra and Its Applications, Third Edition Update [by] David C. Lay David C. Lay, Thomas Polaski, 2006 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

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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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