

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.

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

Replace R2 by R2 + (2)R1 and obtain:

Scale R2 by 1/3:

Replace R1 by R1 + (-5)R2:

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

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

Scale R1 by 1/2 and obtain:

Replace R2 by R2 + (-5)R1:

Scale R2 by -1/3:

Replace R1 by R1 + (-2)R2:

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

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

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

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

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

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

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

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

Solution Manual To Linear Algebra 4e Lay

Howard Anton

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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. [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.

[Solution's Manual - Advanced Linear Algebra](#) Taylor & Francis Group,2010-05-21 [Linear Algebra Solution's Manual](#) Eric Carlen,2007-04-13 [Elementary Linear Algebra, Custom Publication](#) Larson,2000-08-01 [Paperbound Books in Print](#),1992 **Instructor's Solutions Manual** Steven J. Leon,1997 [Handbook of Linear Partial Differential Equations for Engineers and Scientists](#) Andrei D. Polyanin, Vladimir E. Nazaikinskii,2015-12-23 This second edition contains nearly 4 000 linear partial differential equations PDEs with solutions as well as analytical, symbolic and numerical methods for solving linear equations. First, second, third, fourth and higher order linear equations and systems of coupled equations are considered. Equations of parabolic, mixed and other types are discussed. New linear equations, exact solutions, transformations and methods are described. Formulas for effective construction of solutions are given. Boundary value and eigenvalue problems are addressed. Symbolic and numerical methods for solving PDEs with Maple, Mathematica and MATLAB are explored.

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