# 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.**
$$x_1 + 5x_2 = 7$$
$$-2x_1 - 7x_2 = -5$$
$$\begin{bmatrix} 1 & 5 & 7 \\ -2 & -7 & -5 \end{bmatrix}$$

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

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

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

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

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

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

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

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

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

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

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**Linear Algebra with Applications** Otto Bretscher,1997 *Problems In Linear Algebra And Matrix Theory* Fuzhen Zhang,2021-10-25 This is the revised and expanded edition of the problem book Linear Algebra Challenging Problems for Students now entitled Problems in Linear Algebra and Matrix Theory This new edition contains about fifty five examples and many new problems based on the author s lecture notes of Advanced Linear Algebra classes at Nova Southeastern University NSU Florida and short lectures Matrix Gems at Shanghai University and Beijing Normal University The book is intended for upper division undergraduate and beginning graduate students and it can be used as text or supplement for a second course in linear algebra Each chapter starts with Definitions Facts and Examples followed by problems Hints and solutions to all problems are also provided **Algebraic Curves and Riemann Surfaces for Undergraduates** Anil Nerode,Noam Greenberg,2023-01-16 The theory relating algebraic curves and Riemann surfaces exhibits the unity of mathematics topology complex analysis algebra and geometry all interact in a deep way This textbook offers an elementary introduction to this beautiful theory for an undergraduate audience At the heart of the subject is the theory of elliptic functions and elliptic curves A complex torus or donut is both an abelian group and a Riemann surface It is obtained by identifying points on the complex plane At the same time it can be viewed as a complex algebraic curve with addition of points given by a geometric chord and tangent method This book carefully develops all of the tools necessary to make sense of this isomorphism The

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appendix that explains the basic mathematical notation and a detailed index The book can serve as the basis for undergraduate and graduate courses in photogrammetry computer vision and computer graphics It is also appropriate for researchers engineers and software developers in the photogrammetry and GIS industries particularly those engaged with statistically based geometric computer vision methods   Instructor's Solutions Manual, Linear Algebra with Applications, Second Edition Otto Bretscher,2001-11-15

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