

## 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.

$$1. \quad \begin{array}{l} x_1 + 5x_2 = 7 \\ -2x_1 - 7x_2 = -5 \end{array} \quad \begin{bmatrix} 1 & 5 & 7 \\ -2 & -7 & -5 \end{bmatrix}$$

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

$$\begin{array}{l} x_1 + 5x_2 = 7 \\ 3x_2 = 9 \end{array} \quad \begin{bmatrix} 1 & 5 & 7 \\ 0 & 3 & 9 \end{bmatrix}$$

Scale  $R_2$  by  $1/3$ :

$$\begin{array}{l} x_1 + 5x_2 = 7 \\ x_2 = 3 \end{array} \quad \begin{bmatrix} 1 & 5 & 7 \\ 0 & 1 & 3 \end{bmatrix}$$

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

$$\begin{array}{l} x_1 = -8 \\ x_2 = 3 \end{array} \quad \begin{bmatrix} 1 & 0 & -8 \\ 0 & 1 & 3 \end{bmatrix}$$

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

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

Scale  $R_1$  by  $1/2$  and obtain:

$$\begin{array}{l} x_1 + 2x_2 = -2 \\ 5x_1 + 7x_2 = 11 \end{array} \quad \begin{bmatrix} 1 & 2 & -2 \\ 5 & 7 & 11 \end{bmatrix}$$

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

$$\begin{array}{l} x_1 + 2x_2 = -2 \\ -3x_2 = 21 \end{array} \quad \begin{bmatrix} 1 & 2 & -2 \\ 0 & -3 & 21 \end{bmatrix}$$

Scale  $R_2$  by  $-1/3$ :

$$\begin{array}{l} x_1 + 2x_2 = -2 \\ x_2 = -7 \end{array} \quad \begin{bmatrix} 1 & 2 & -2 \\ 0 & 1 & -7 \end{bmatrix}$$

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

$$\begin{array}{l} x_1 = 12 \\ x_2 = -7 \end{array} \quad \begin{bmatrix} 1 & 0 & 12 \\ 0 & 1 & -7 \end{bmatrix}$$

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

# Linear Algebra With Applications Seventh Edition

**W. Keith Nicholson**



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**Student Solutions Manual [to Accompany] Elementary Linear Algebra, Applications Version, 7th Ed. [by] Howard Anton, Chris Rorres** Howard Anton, Elizabeth M. Grobe, Chris Rorres, Charles A. Grobe, 1994 This classic treatment of linear algebra presents the fundamentals in the clearest possible way examining basic ideas by means of computational examples and geometrical interpretation It proceeds from familiar concepts to the unfamiliar from the concrete to the abstract Readers consistently praise this outstanding text for its expository style and clarity of presentation The applications version features a wide variety of interesting contemporary applications Clear accessible step by step explanations make the material crystal clear Established the intricate thread of relationships between systems of equations matrices determinants vectors linear transformations and eigenvalues

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Elementary Linear Algebra Stewart Venit, Wayne Bishop, 1989 New edition of a standard college textbook

**Foundations and Fundamental Concepts of Mathematics** Howard Eves, 1990 Third edition of popular undergraduate level text offers historic overview readable treatment of mathematics before Euclid Euclid's Elements non Euclidean geometry algebraic structure formal axiomatics sets more Problems some with solutions Bibliography

**Calculus Activities for Graphic Calculators** Dennis Pence, 1990 Supplemental text explores activities for Sharp Casio and HP 28S Graphic calculators for freshman calculus

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Linear Algebra with Applications, Alternate Edition Gareth Williams, 2009-12-23 Building upon the sequence of topics of the popular 5th Edition Linear Algebra with Applications Alternate Seventh Edition provides instructors with an alternative presentation of course material In this edition earlier chapters cover systems of linear equations matrices and determinates The vector space  $\mathbb{R}^n$  is introduced in chapter 4 leading directly into general vector spaces and linear transformations This order of topics is ideal for those preparing to use linear equations and matrices in their own fields New exercises and modern real world applications allow students to test themselves on relevant key material and a MATLAB manual included as an appendix provides 29 sections of computational problems

**An Introduction to Applied Numerical Analysis** Benjamin F. Plybon, 1992

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