

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.

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

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

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

Scale R2 by 1/3:

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

Replace R1 by R1 + (-5)R2:

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

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

$$2. \quad \begin{array}{rcl} 3x_1 + 6x_2 & = & -3 \\ 5x_1 + 7x_2 & = & 10 \end{array} \quad \left[\begin{array}{cc|c} 3 & 6 & -3 \\ 5 & 7 & 10 \end{array} \right]$$

Scale R1 by 1/3 and obtain:

$$\begin{array}{rcl} x_1 + 2x_2 & = & -1 \\ 5x_1 + 7x_2 & = & 10 \end{array} \quad \left[\begin{array}{cc|c} 1 & 2 & -1 \\ 5 & 7 & 10 \end{array} \right]$$

Replace R2 by R2 + (-5)R1:

$$\begin{array}{rcl} x_1 + 2x_2 & = & -1 \\ -3x_2 & = & 15 \end{array} \quad \left[\begin{array}{cc|c} 1 & 2 & -1 \\ 0 & -3 & 15 \end{array} \right]$$

Scale R2 by -1/3:

$$\begin{array}{rcl} x_1 + 2x_2 & = & -1 \\ x_2 & = & -5 \end{array} \quad \left[\begin{array}{cc|c} 1 & 2 & -1 \\ 0 & 1 & -5 \end{array} \right]$$

Replace R1 by R1 + (-2)R2:

$$\begin{array}{rcl} x_1 & = & 9 \\ x_2 & = & -5 \end{array} \quad \left[\begin{array}{cc|c} 1 & 0 & 9 \\ 0 & 1 & -5 \end{array} \right]$$

The solution is $(x_1, x_2) = (9, -5)$, or simply $(9, -5)$.

Linear Algebra Lay 4th Edition Solutions

Daniel Callahan



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Handbook of Mathematics for Engineers and Scientists Andrei D. Polyandin,Alexander V. Manzhirov,2006-11-27

Covering the main fields of mathematics this handbook focuses on the methods used for obtaining solutions of various classes of mathematical equations that underlie the mathematical modeling of numerous phenomena and processes in science and technology The authors describe formulas methods equations and solutions that are frequently used in scientific and engineering applications and present classical as well as newer solution methods for various mathematical equations The book supplies numerous examples graphs figures and diagrams and contains many results in tabular form including finite sums and series and exact solutions of differential integral and functional equations

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