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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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Thomas Holey, Armin Wiedemann



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A Course in Abstract Algebra, 5th Edition Khanna V.K. & Bhamri S.K, 2016 Designed for undergraduate and postgraduate students of mathematics the book can also be used by those preparing for various competitive examinations The text starts with a brief introduction to results from Set theory and Number theory It then goes on to cover Groups Rings Fields and Linear Algebra The topics under groups include subgroups finitely generated abelian groups group actions solvable and nilpotent groups The course in ring theory covers ideals embedding of rings Euclidean domains PIDs UFDs polynomial rings Noetherian Artinian rings Topics of field include algebraic extensions splitting fields normal extensions separable extensions algebraically closed fields Galois extensions and construction by ruler and compass The portion on linear algebra deals with vector spaces linear transformations Eigen spaces diagonalizable operators inner product spaces dual spaces operators on inner product spaces etc The theory has been strongly supported by numerous examples and worked out problems There is also plenty of scope for the readers to try and solve problems on their own New in this Edition A full section on operators in inner product spaces Complete survey of finite groups of order up to 15 and Wedderburn theorem on finite division rings Addition of around one hundred new worked out problems and examples Alternate and simpler proofs of some results A new section on quick recall of various useful results at the end of the book to facilitate the reader to get instant answers to tricky questions

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