

# 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  $(9, -5)$ .

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**SJ Ball**



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