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

Replace R1 by R1 +
$$(-5)$$
R2:

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

2.
$$3x_1 + 6x_2 = -3$$
 $\begin{bmatrix} 3 & 6 & -3 \\ 5x_1 + 7x_2 = 10 \end{bmatrix}$ $\begin{bmatrix} 3 & 6 & -3 \\ 5 & 7 & 10 \end{bmatrix}$

Replace R2 by R2 +
$$(-5)$$
R1:

Replace R1 by R1 +
$$(-2)$$
R2:

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

$$x_1 + 2x_2 = -1$$

 $5x_1 + 7x_2 = 10$ $\begin{bmatrix} 1 & 2 & -1 \\ 5 & 7 & 10 \end{bmatrix}$

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

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

$$x_1 = 9$$
 $x_2 = -5$
 $\begin{bmatrix} 1 & 0 & 9 \\ 0 & 1 & -5 \end{bmatrix}$

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