linear algebra and its applications solutions

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.

Replace R1 by R1
$$\pm$$
 (-5)R2:

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

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

Scale R2 by
$$-1/3$$
:

Replace R1 by R1
$$\pm$$
 (-2)R2:

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

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

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

$$x_1 + 2x_2 = -2$$

 $-3x_2 = 21$

$$\begin{bmatrix} 1 & 2 & -2 \\ 0 & -3 & 21 \end{bmatrix}$$

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

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