# 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.

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

2. 
$$2x_1 + 4x_2 = -4$$
  $\begin{bmatrix} 2 & 4 & -4 \\ 5x_1 + 7x_2 = 11 \end{bmatrix}$ 

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

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

$$x_1 + 2x_2 = -2$$
  $\begin{bmatrix} 1 & 2 & -2 \\ 0 & 1 & -7 \end{bmatrix}$ 

$$x_1 = 12$$
 $x_2 = -7$ 

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

# **Lay Linear Algebra Solutions Manual**

Andrei D. Polyanin, Alexander V. Manzhirov

# **Lay Linear Algebra Solutions Manual:**

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