# 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 R2 by R2 + (2)R1 and obtain:

---

Scale R2 by 1/3:

Replace R1 by R1 + (-5)R2:

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

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

Scale R1 by 1/2 and obtain:

Scale R2 by -1/3:

Replace R1 by R1 + (-2)R2:

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

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

$$x_1 = -8$$
 $x_2 = 3$ 

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

$$x_1 + 2x_2 = -2$$
  
 $5x_1 + 7x_2 = 11$   $\begin{bmatrix} 1 & 2 & -2 \\ 5 & 7 & 11 \end{bmatrix}$ 

$$x_1 + 2x_2 = -2 \\ -3x_2 = 21$$
 
$$\begin{bmatrix} 1 & 2 & -2 \\ 0 & -3 & 21 \end{bmatrix}$$

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

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

# <u>Linear Algebra And Its Applications Third Edition</u> <u>Solutions Manual</u>

**RD Boyd** 

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