

# 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  $R_1, R_2, \dots$ , stand for row 1 (or equation 1), row 2 (or equation 2), and so on. Additional notes are at the end of the section.

$$1. \quad \begin{array}{l} x_1 + 5x_2 = 7 \\ -2x_1 - 7x_2 = -5 \end{array} \quad \left[ \begin{array}{cc|c} 1 & 5 & 7 \\ -2 & -7 & -5 \end{array} \right]$$

Replace  $R_2$  by  $R_2 + (2)R_1$  and obtain:

$$\begin{array}{l} x_1 + 5x_2 = 7 \\ 3x_2 = 9 \end{array} \quad \left[ \begin{array}{cc|c} 1 & 5 & 7 \\ 0 & 3 & 9 \end{array} \right]$$

Scale  $R_2$  by  $1/3$ :

$$\begin{array}{l} x_1 + 5x_2 = 7 \\ x_2 = 3 \end{array} \quad \left[ \begin{array}{cc|c} 1 & 5 & 7 \\ 0 & 1 & 3 \end{array} \right]$$

Replace  $R_1$  by  $R_1 + (-5)R_2$ :

$$\begin{array}{l} x_1 = -8 \\ x_2 = 3 \end{array} \quad \left[ \begin{array}{cc|c} 1 & 0 & -8 \\ 0 & 1 & 3 \end{array} \right]$$

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

$$2. \quad \begin{array}{l} 2x_1 + 4x_2 = -4 \\ 5x_1 + 7x_2 = 11 \end{array} \quad \left[ \begin{array}{cc|c} 2 & 4 & -4 \\ 5 & 7 & 11 \end{array} \right]$$

Scale  $R_1$  by  $1/2$  and obtain:

$$\begin{array}{l} x_1 + 2x_2 = -2 \\ 5x_1 + 7x_2 = 11 \end{array} \quad \left[ \begin{array}{cc|c} 1 & 2 & -2 \\ 5 & 7 & 11 \end{array} \right]$$

Replace  $R_2$  by  $R_2 + (-5)R_1$ :

$$\begin{array}{l} x_1 + 2x_2 = -2 \\ -3x_2 = 21 \end{array} \quad \left[ \begin{array}{cc|c} 1 & 2 & -2 \\ 0 & -3 & 21 \end{array} \right]$$

Scale  $R_2$  by  $-1/3$ :

$$\begin{array}{l} x_1 + 2x_2 = -2 \\ x_2 = -7 \end{array} \quad \left[ \begin{array}{cc|c} 1 & 2 & -2 \\ 0 & 1 & -7 \end{array} \right]$$

Replace  $R_1$  by  $R_1 + (-2)R_2$ :

$$\begin{array}{l} x_1 = 12 \\ x_2 = -7 \end{array} \quad \left[ \begin{array}{cc|c} 1 & 0 & 12 \\ 0 & 1 & -7 \end{array} \right]$$

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

# Linear Algebra With Applications 5th Edition Solutions

**Richard C. Penney**



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model s by modeler dan work and presented reviewed at the september 25 2019 meeting of the tacoma green dragons international plastic modelers society i

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the original smaller versions could be pulled behind a vehicle showcase of custom built painted and weathered model trains model railroad equipment and model ships offering custom model building and painting services

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finally finished my easter egg challenge from my children and re done video for the diesel fuelling point as last one had no sound have a look and see w

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6 15 04 many people immediately think of the exquisitely detailed structure car or locomotive when they hear the term scratchbuilding however scratchbuilding can take many forms how about that spot on the layout that just calls for a special structure when kitbashing isn t an option you scratchbuild

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aug 24 2013 and one of the four rebuilt versions probably as close to scratch as is possible for me using a commercially available train set type car in addition to the new floor it has new ends and a scratch built radial roof plus the usual added details the stiffeners were necessary to counteract the effect of the monofilament truss rods