

1-2 CHAPTER 1 • Linear Equations in Linear Algebra

3. The point of intersection satisfies the system of two linear equations:

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

Replace R2 by R2 + (-1)R1 and obtain:

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

Scale R2 by -1/7:

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

Replace R1 by R1 + (-5)R2:

$$\begin{aligned}x_1 &= 4/7 \\x_2 &= 9/7\end{aligned}\quad \begin{bmatrix} 1 & 0 & 4/7 \\ 0 & 1 & 9/7 \end{bmatrix}$$

The point of intersection is $(x_1, x_2) = (4/7, 9/7)$.

4. The point of intersection satisfies the system of two linear equations:

$$\begin{aligned}x_1 - 5x_2 &= 1 \\3x_1 - 7x_2 &= 5\end{aligned}\quad \begin{bmatrix} 1 & -5 & 1 \\ 3 & -7 & 5 \end{bmatrix}$$

Replace R2 by R2 + (-3)R1 and obtain:

$$\begin{aligned}x_1 - 5x_2 &= 1 \\8x_2 &= 2\end{aligned}\quad \begin{bmatrix} 1 & -5 & 1 \\ 0 & 8 & 2 \end{bmatrix}$$

Scale R2 by 1/8:

$$\begin{aligned}x_1 - 5x_2 &= 1 \\x_2 &= 1/4\end{aligned}\quad \begin{bmatrix} 1 & -5 & 1 \\ 0 & 1 & 1/4 \end{bmatrix}$$

Replace R1 by R1 + (5)R2:

$$\begin{aligned}x_1 &= 9/4 \\x_2 &= 1/4\end{aligned}\quad \begin{bmatrix} 1 & 0 & 9/4 \\ 0 & 1 & 1/4 \end{bmatrix}$$

The point of intersection is $(x_1, x_2) = (9/4, 1/4)$.

5. The system is already in "triangular" form. The fourth equation is
- $x_4 = -5$
- , and the other equations do not contain the variable
- x_4
- . The next two steps should be to use the variable
- x_4
- in the third equation to eliminate that variable from the first two equations. In matrix notation, that means to replace R2 by its sum with 3 times R3, and then replace R1 by its sum with -5 times R3.

6. One more step will put the system in triangular form. Replace R4 by its sum with -3 times R3, which

produces $\begin{bmatrix} 1 & -6 & 4 & 0 & -1 \\ 0 & 2 & -7 & 0 & 4 \\ 0 & 0 & 1 & 2 & -3 \\ 0 & 0 & 0 & -5 & 15 \end{bmatrix}$. After that, the next step is to scale the fourth row by $-1/5$.

7. Ordinarily, the next step would be to interchange R3 and R4, to put a 1 in the third row and third column. But in this case, the third row of the augmented matrix corresponds to the equation
- $0x_1 + 0x_2 + 0x_3 = 1$
- , or simply,
- $0 = 1$
- . A system containing this condition has no solution. Further row operations are unnecessary once an equation such as
- $0 = 1$
- is evident. The solution set is empty.

Linear Algebra Lay Solution Manual

Mark Steyvers



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