

## CONSISTENCY OF LINEAR SYSTEM OF EQUATIONS AND THEIR SOLUTION (LINEAR DEPENDENCE)

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### 20.1 SOLUTION OF SIMULTANEOUS EQUATIONS

The matrix of the coefficients of  $x, y, z$  is reduced into Echelon form by elementary row transformations. At the end of the row transformation the value of  $z$  is calculated from the last equation and value of  $y$  and the value of  $x$  are calculated by the backward substitution.

**Example 1.** Solve the following equations

$$x - y + 2z = 3, \quad x + 2y + 3z = 5, \quad 3x - 4y - 5z = -13$$

**Solution.** In the matrix form, the equations are written in the following form.

$$\begin{bmatrix} 1 & -1 & 2 \\ 1 & 2 & 3 \\ 3 & -4 & -5 \end{bmatrix} \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} 3 \\ 5 \\ -13 \end{bmatrix} \text{ or } \begin{bmatrix} 1 & -1 & 2 \\ 0 & 3 & 1 \\ 0 & -1 & -11 \end{bmatrix} \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} 3 \\ 2 \\ -22 \end{bmatrix} \begin{matrix} R_2 \rightarrow R_2 - R_1 \\ R_3 \rightarrow R_3 - 3R_1 \end{matrix}$$

$$\begin{bmatrix} 1 & -1 & 2 \\ 0 & 3 & 1 \\ 0 & 0 & -\frac{32}{3} \end{bmatrix} \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} 3 \\ 2 \\ -\frac{64}{3} \end{bmatrix} \begin{matrix} R_3 \rightarrow R_3 + \frac{1}{3}R_2 \end{matrix}$$

$$x - y + 2z = 3 \quad \dots (1)$$

$$3y + z = 2 \quad \dots (2)$$

$$\frac{-32}{3}z = \frac{-64}{3} \Rightarrow z = 2$$

Putting the value of  $z$  in (2), we get

$$3y + 2 = 2 \Rightarrow y = 0$$

Putting the value of  $y, z$  in (1), we get

$$x - 0 + 4 = 3 \Rightarrow x = -1$$

$$x = -1, y = 0, z = 2$$

**Ans.**

**Example 2.** Find all the solutions of the system of equations

$$x_1 + 2x_2 - x_3 = 1, \quad 3x_1 - 2x_2 + 2x_3 = 2, \quad 7x_1 - 2x_2 + 3x_3 = 5$$

**Solution.** 
$$\begin{bmatrix} 1 & 2 & -1 \\ 3 & -2 & 2 \\ 7 & -2 & 3 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix} = \begin{bmatrix} 1 \\ 2 \\ 5 \end{bmatrix}$$

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