

Linear Equations in Two Variables

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10th Maths - Chapter 3

This is Problem-2.3 from Exercise 3.2

1.

Solution:

Given Data: $6x - 3y = -27$

$2x - y = -9$

This can also be written as:

$$\begin{pmatrix} 6 & -3 & -27 \\ 2 & -1 & -9 \end{pmatrix} \quad (1)$$

now, Making $R_2 \rightarrow R_1 - 3R_2$
we get,

$$\begin{pmatrix} 6 & -3 & -27 \\ 0 & 0 & 0 \end{pmatrix} \quad (2)$$

Since, we are getting zero in R_2
It is a dependent equation.