

Linear Equations in Two Variables

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10th Maths - Chapter 3

This is Problem-2 from Exercise 3.1

1. The coach of a cricket team buys 3 bats and 6 balls for ‘ 3900. Later, she buys another bat and 3 more balls of the same kind for ‘ 1300. Represent this situation algebraically and geometrically

Solution:

Given Data:

$$3x+6y=3900$$

$$1x+3y=1300$$

This can also be written as:

$$\begin{pmatrix} 3 & 6 \\ 1 & 3 \\ 3900 & 1300 \end{pmatrix} \quad (1)$$

now, Making $R_2 \rightarrow 2R_1 - R_2$

we get,

$$\begin{pmatrix} 3 \\ 1300 \end{pmatrix} \quad (2)$$

Since, we are getting 3,1300 in R_2

It is a dependent equation.