

Pair of linear equation in two variables

harshita (paidisettyharshita@sriprakashschools.com)

July 18, 2023

Class 10th Maths - Chapter 3

1. On comparing $\frac{a_1}{a_2}, \frac{b_1}{b_2}, \frac{c_1}{c_2}$ Find out whether the following pair of linear equation are consistent, or inconsistent.

$$5x - 3y = 11; \quad (1)$$

$$-10x + 6y = 22 \quad (2)$$

Solution:

equations can be written as:

$$\begin{pmatrix} 5 & -3 \\ -10 & 6 \end{pmatrix} \begin{pmatrix} x \\ y \end{pmatrix} = \begin{pmatrix} 11 \\ 22 \end{pmatrix} \quad (3)$$

(4)

The values of x and y are: