## BAL BHARATI PUBLIC SCHOOL, PITAMPURA, DELHI - 110034

## SUBJECT: MATHEMATICS

## CHAPTER: 3

## TOPIC: Pair of Linear Equations in Two Variables

## STEP 1:

## GUIDELINES AND INTRODUCTION

Dear students kindly refer to the following notes/video links for the Chapter- "Pair of Linear Equations in Two Variables" and thereafter do the questions in your math notebook.

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(Chapter3 - Part 5)
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Link for the chapter:-http://ncert.nic.in/textbook/textbook.htm?jemh1=3-15
Introduction: We have already learnt the graphical and algebraic methods of finding the solution of a pair of linear equations in two variables.

Today, we are going to learn solving the pair of equations which are not linear, but can be reduced to linear form. Look at the following example:


Now, this pair can be written as $2 p+3 q=13$
$5 p-4 q=-2$, which can be solved by any of the methods (substitution, elimination and cross multiplication)

## STEP 2:

SUBTOPIC:
Solving pair of equations which are reducible to a pair of linear equations in two variables.
STEP 3:
Key points and important links for reference:-
Sometimes we come across a pair of equations in two variables, which is not linear but can be reduced to a pair of linear equations in two variables. A few questions have been solved for your reference in the following links:

Refer to the following links to understand how to solve equations which are reducible to a pair of linear equations in two variables.
https://www.youtube.com/watch?v=NvXY75Vrw54
https://youtu.be/6FKrcz410hU Exercise 3.6 Question 1. (ii)
https://www.youtube.com/watch?v=KusMyxme-mw Exercise 3.6 Question 1. (viii)

## ASSIGNMENT:

1. Do exercise $3.6, \mathrm{Q}-1$. i) iii) iv) v) vi) vii) parts
2. Solve for $x$ and $y$

$$
\begin{array}{r}
\frac{1}{(2 x+3 y)}+\frac{1}{(3 x-2 y)}=\frac{1}{2} \\
\frac{2}{(2 x+3 y)}+\frac{1}{(3 x-2 y)}=\frac{1}{4}
\end{array}
$$

