

# Class:X Maths Ch.3

## Worksheet 1 of Module 5

Which of the following pairs of linear equations has unique solution, no solution, or infinitely many solutions. In case there is a unique solution, find it by using cross multiplication method.

(i)  $x - 3y - 3 = 0$

$$3x - 9y - 2 = 0$$

(ii)  $2x + y = 5$

$$3x + 2y = 8$$

(iii) For which values of  $p$  does the pair of equations given below has unique solution?

$$4x + py + 8 = 0 \text{ \& } 2x + 2y + 2 = 0$$

(iv) For which values of  $a$  and  $b$  does the following pair of linear equations have an infinite number of solutions?

$$2x + 3y = 7 \text{ \& } (a - b)x + (a + b)y = 3a + b - 2$$

(v) For which value of  $k$  will the following pair of linear equations have no solution?

$$3x + y = 1 \text{ \& } (2k - 1)x + (k - 1)y = 2k + 1$$