

Class – 10th

Chapter-4

Subject Maths

Worksheet-10

Linear Equation and Inequalities

1. On comparing the ratios $\frac{a_1}{a_2}, \frac{b_1}{b_2}$ and $\frac{c_1}{c_2}$, find out whether pairs of linear equations are consistent

or inconsistent.

(i) $2x - 3y = 8;$

$4x - 6y = 9$

(ii) $3x - y = 2;$

$6x - 2y = 4$

(iii) $2x - 2y = 2;$

$4x - 4y = 5$

(iv) $\frac{4}{3}x + 2y = 8;$

$2x + 3y = 12$

2. Solve the following pairs of linear equations, graphically and find the nature of that solution.

(i) $x + y = 3;$

$3x - 2y = 4$

(ii) $2x - y = 4;$

$x + y = -1$

(iii) $x + y = 5;$

$2x + 2y = 10$

(iv) $3x + y = 2;$

$2x - 3y = 5$