

## SHREE ACADI R. SEC. SCHOOL =



An English Medium Co.Ed. School | Science & Commerce

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Class - 10<sup>th</sup>

## **Chapter-4**

**Subject Maths** 

Worksheet-10

Linear Equation and Inequalities

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) 
$$3x - y = 2$$
;  $6x - 2y = 4$ 

$$6x - 2v = 4$$

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

$$4x - 4y = 5$$

(iii) 
$$2x-2y=2$$
;  $4x-4y=5$  (iv)  $\frac{4}{3}x+2y=8$ ;  $2x+3y=12$ 

$$2x + 3y = 12$$

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

$$2x - 3y = 5$$