

S.N. Public High School Indrapuri, Tajpur Road, Ludhiana Academic Session: 2024-25

Assignment-I

Class: - 10th Subject: - Mathematics

Note: Writing should be Neat and Clean.

Solve the following given Questions:-

1. On comparing ratio a_1/a_2 , b_1/b_3 and c_1/c_2 , find out whether the following pair of linear are consistent or inconsistent.

$$3/2 x + 5/3 y = 7$$

and

$$9x - 10y = 14$$

2. Solve the following pair of linear equations by the substitution method.

$$0.2 x + 0.3 y = 1.3$$

and

$$0.4x + 0.5y = 2.3$$

3. Solve the following pair of linear equations by elimination method.

$$3x - 5y - 4 = 0$$
 and $9x = 2y + 7$

- 4. Five years ago, Nuri was thrice as old as Sonu. Ten years later, Nuri will be twice as old as Sonu. How old are Nuri and Sonu?
- 5. A fraction becomes 9/11, if 2 is added to both the numerator and the denominator. If 3 is added to both the numerator and the denominator, it becomes 5/6. Find the fraction?
- 6. Determine if the points (1,5)(2,3) and (-2,-1) are collinear.
- 7. Find the point on the x- axis which is equidistant from (2,-5) and (-2,9)
- 8. Find the co-ordinates of the points of trisection of the line segment joining (4,-1) and (-2 -3).
- 9. Find the ratio in which the line segment joining the points (-3,10) and (6,-8) is divided by (-1,6).
- 10. Find the co-ordinates of the points which divides the line segment joining A(-2,2) and B(2,8) into four equal parts.