**ASSIGNMENT (2020-21)**

**CLASS - X SUBJECT – MATHEMATICS**

**CH- 3 (PAIR OF LINEAR EQUATIONS IN TWO VARIABLES)**

1. The value of for which the pair of linear equations and

Represents parallel line is

2 -3 4 -2

1. If is the solution to the equation and , then the values of and are respectively

3 and 5 5 and 3 3 and 1 -1 and -3

1. The area of the triangle formed by the line with the coordinate axes is

1. If the pair of linear equations is inconsistent, the value of is :

1. The pair of linear equations and has

no common solution infinitely any solutions unique solution none of these

1. The angles of a triangle are . The difference between the two angles and is 30. Find and
2. Two numbers are in the ratio 5 : 6. If 8 is subtracted from each of the numbers, the ratio becomes 4 : 5. Find the numbers.
3. Graphically, solve the following pair of equations:
4. 4 men and 6 boys can finish a piece of work in 5 days while 3 men and 4 boys can finish it in 7 days. Find the time taken by 1 man alone and that by 1 boy alone.
5. The ratio of incomes of two persons is 9 : 7 and ratio of their expenditure is 4 : 3. If each of them saves Rs. 2000 per month, find their monthly incomes.
6. A person, rowing at the rate of 5 km/h in still water, takes thrice as much time in going 40 km upstream as in going 40 km downstream. Find the speed of the stream.
7. ABCD is a cyclic quadrilateral. Find the angles of the cyclic quadrilateral
8. A shopkeeper sells a saree at 8% profit and a sweater at 10% discount, therby, getting a sum Rs. 1008. If she had sold the saree at 10% profit and the sweater at 8% discount, she would have got Rs.1028. find the cost price of the saree and the list price of the sweater.
9. Find the value of for which the pair of linear equations and has no solution.
10. Sum of two numbers is 35 and their difference is 13. Find the numbers.