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CLASS X SAMPLE PAPER MATHS

LINEAR EQUATIONS IN TWO VARIABLES



F.M: 50

1. Find the value of *m* ad *n* for which following system of linear equations have infinitely many solutions

3x+4y=12

(m+n) x+2(m-n)y=(5m-1)

2. Solve for *x* and *y*

Time: 1 hrs

ax+by-a+b=0 and bx-ay-a-b=0

- **3.** Solve for *x* and *y* :23x-29y=98 and 29x-23y=110
- **4.** Solve for *x* and *y*:

$$\frac{15}{x-y} + \frac{22}{x+y} = 5 \quad , \frac{40}{x-y} + \frac{55}{x+y} = 15$$



5 .Solve for x and y:

 $(a-b)x+(a+b)y=a^2-2ab-b^2$ and $(a+b)(x+y)=a^2+b^2$

6. Solve the following system of equation graphically

4x-5y+16=0, 2x+y-6=0. Determine the vertices of triangle formed by lines and x axis



7. 8 men and 12 boys can finish a work in 5 days, while 6 men and 8 boys can finish it in 7 days. Find the time taken by 1 man and 1 boy alone to finish the same work.

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8. A boat goes 16km upstream and 24km downstream in 6 hours. Also it covers 12km upstream and 36km downstream in the same time. Find the speed of the boat in still water and that of the stream

9. A sum of two numbers is 1000 and difference between their squares is 256000.Find the numbers.

10.A two digit number is such that the product of its digit is 14.If 45 is added to the number, the digits interchange their places. Find the number.

