

Chapter 3 – Linear Equations in two Variables

MM 20

Class X

Time 45 minutes

1 Mark Each

1. Define linear equation in 2 variables
2. Geometric meaning of solution of a linear equation in 2 variables is _____
3. Check if the pair of equation if consistent. $3x + 4y = 11$, $6x + 8y = 15$
4. Find k such that the system of equations has a unique solution
 $3x + 7y + 9 = 0$ and $5x + 5y = k$

2 Marks Each

5. Solve for x and y $148x + 231y = 527$, $231x + 148y = 610$
6. By using the method of equating the coefficients (elimination method) find all possible solution of the system of equation. $3x + 8y = 15$, $15x + 40y = 60$

3 Marks Each

7. Find k for which system of equation has infinitely many solutions
 $2x + 3y = 4$; $(2k - 1)x + 6y = 3k + 2$?
8. 8 men and 12 boys can finish a piece of work in 10 days while 6 men and 8 boys can finish it in 14 days. Find the time taken by one man alone and that by one boy alone to finish the work.

6 Marks Each

9. The sum of a 2 digit number and the number formed by reversing the order of digits is 88. If the digit differ by 2 find the number using graphical method

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