9th Linear Equation in two Variables [Practice Paper-02]

Q.1. Five years ago, age of mother was 2 times the age of daughter. Represent this statement graphically as linear equation in two variables.

Q.2. Draw the graphs of x = -2 , x = 2 , y = 0 and y = 4 in the same Cartesian plane .Identify the figure so formed

Q.3. Find weather line represented by y = 3 pass through origin?

Q.4. Circle with radius r and centre O is drawn. Write the co ordinates of pints where it meets the axes. Also write the equations of AC and BD. Find its radius.

Q.5. Cost of 5 kg apples and 2 kg oranges is Rs. 330. Let the cost of 1 kg apples be Rs. x and that of 1 kg is Rs. y. Write the given data in the form of linear equation in two variables. Also , represent it graphically.

Q.6. The parking charge for vehicles in super Delhi Metro is Rs 20 for first km two hrs and Rs. 10 for subsequent hr. Assume total parking time to be x hrs. (where $x \geq 2$) and total parking charge as y . Write the linear equation for above relation and draw graph. Find the parking Charges for 5 hrs from Graph

Q.7. Plot A(3 , 0), B (0 , 2), C(- 3 , 0) , D(0, -2) on a graph paper. Join A to B, B to C, C to D and D to A to form a quadrilateral ABCD, Is ABCD a rhombus? Also write the equation of AC and BD

Q.8. Equation of three lines a, b, c in the following graph are x + y = 0 , x – y = 0 and y = 2 (may not be written in order). Match the given equations with lines a , b and c. Also find the area enclosed between these lines

Q.09. Find whether (m, m) lies on the lines y – x = 0 or not.

Q.10. Find the point on x axis from where graph of linear equation x – 5y = 3 will pass.

Q.11. if ax + 3y = 25 and y = 1 find value of x

Q.12. Write the following equations in slandered form and draw its graph. $\frac{x}{2} + \frac{3y}{5} = -1$

Q.13. The cost of 2 table exceeds the cost of 3 chairs by Rs. 120 . Form the linear equation in two variables to represent the situation. Also find the cost of one table if the cost of 1 table if the cost of 1 chair is Rs. 60

Q.14. Draw the graphs for : x = 4, x + 5 = 0 and y-1 = 0. Also, Find the area enclosed between these lines.

Q. 15. Write the equation for the lines p,q , r ans s. Also, Find the area enclosed between them.