L'inearc Equation in two Variable 1) Find (k) if x=2, y=1 is a solution of 2x+3y=K Let f(a) = 2x+34 So, 2x+ 3y = K = 2x + 3y - k = 0If $\chi = 2$ and y = 1 is a solution of 2x + 3y = kthen, 2(2) + 3(1) - K = 0= 4 + 7 - k = 0= 11-K=0 2° K=11 Thus the value of k is 11 Find the points where graph of the equation 2> 3x + 4y = 12 cuts y axis and $x - \alpha x$ is 3x + 4y = 12, when X 2°2 the solution of the 0 3 equation in 2 variables are 2> (0,9) and (4,0). :1) So, graph of the equation in two variable is :-





Hence the graph of the equation will met Xaxis at (4,0) and y-axis at (0,3). 2,5,10 3) At what point does the graph of the linear equation x+y = 5 meet a line parallel to the 4-axis at a distance 2 units from orrigin and in positive of n-anis. The graph of the equation $\chi + \gamma = 5$ meet a line porallel to the y-axis at a distance from origin and in positive of x axis at point (2,3).

3> When,

× 05 450

Thus solution of the linear equation in two Variables is (0,5) and (5,0).



Page____(•) 4) Determine the point on graph of equation 2x+54=20 whose x - co-ordinate is 512 times its y - co-ordinate Let y co-ordinate be = a Then x coordinate will be = 5a 2 $\frac{so, x = 5a, a = 2x, and}{2}$ = y = a0° 2x = y $= \frac{\chi}{4} = \frac{5}{2}$ Hence the point on graph of the equation 2x+5y=20 whose x co-oradinate is 5/2 times of its y co-oradinate is (5,2). Draw graph of equation represented by a 5> straight line parallel to X-axis and is 4 units above it. Equation represented by straight line = (x, 4)





