1.The equations of the lines x=2 & y=4 meet at the point …………..

Solution:

X=2

x-2=0 & y-4=0

x-2=0

2.Equations 2X+3Y=9 & 7X+9Y=-6 have how many solutions?

Solution:2X+3Y=9 ……eq(1)

7X+9Y=-6………(2)

Multiply eq(1) with 3 we get

6X+9Y=27….(3)

Subtract eq 3-1

6X+9Y=27

7X+9Y=-6

-___-___+_____

X= -33

Hence Y

6(-33)+9Y=27

Y=25

Ans= x=-33 and y=25

3.Equation 7x+9y=-5 has how many keys?

Solution: 7x+9y+5=0

4.Equation ax^2+bx+c=0 will be .... for a=b=c=0 .

Solution: $x = \dfrac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

5. Income of A & B is in ratio 2:3. For example, if B's income is Rs 3000, find out the ratio of their expenditures if their savings are Rs 500 & Rs 700, respectively.

Solution: ratio of income A_i:B_i =2:3

As income of B is 3000 then income of A is 2000

A_e= 2000-500=1500

B_e= 3000-700=2300

Ae/Be=15/23