muhammadjavith.a@gmail.com

Aptitude Assignment 1

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

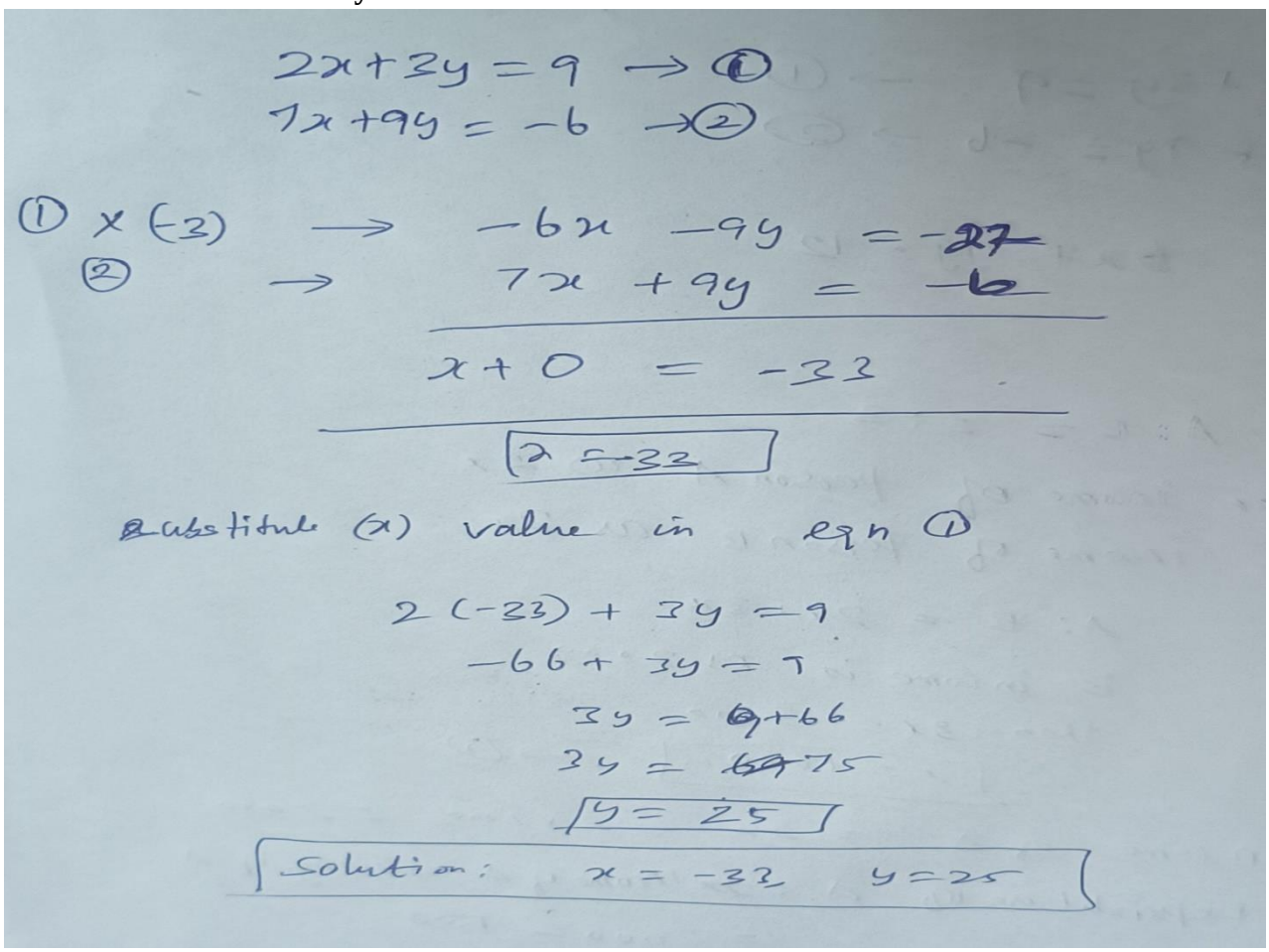
Solution:

The equations of the lines x=2 & y=4 is both vertical and horizontal lines, respectively. These lines intersect at a single point, which is the point (2, 4).

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

Solution:

x = -33 and y = 25



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

Solution: one key

This solution deals with the properties of a straight line which is solved using y = mx+c. So, Slope=1.556/2.000=0.778

Notice that when x = 0 the value of y is 5/9 so this line "cuts" the y axis at y=0.55556

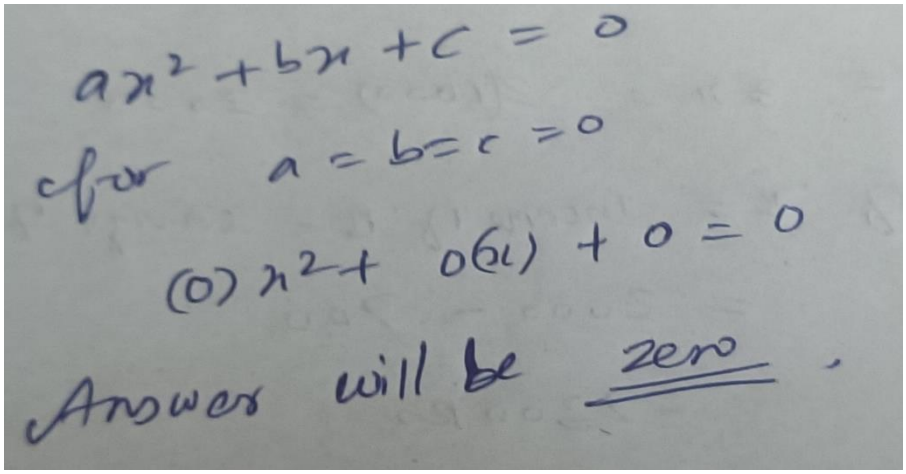
y-intercept = -5/-9 = 0.55556

When y = 0 the value of x is -5/7 Our line therefore "cuts" the x axis at x= -0.71429

x-intercept = -5/7 = -0.71429

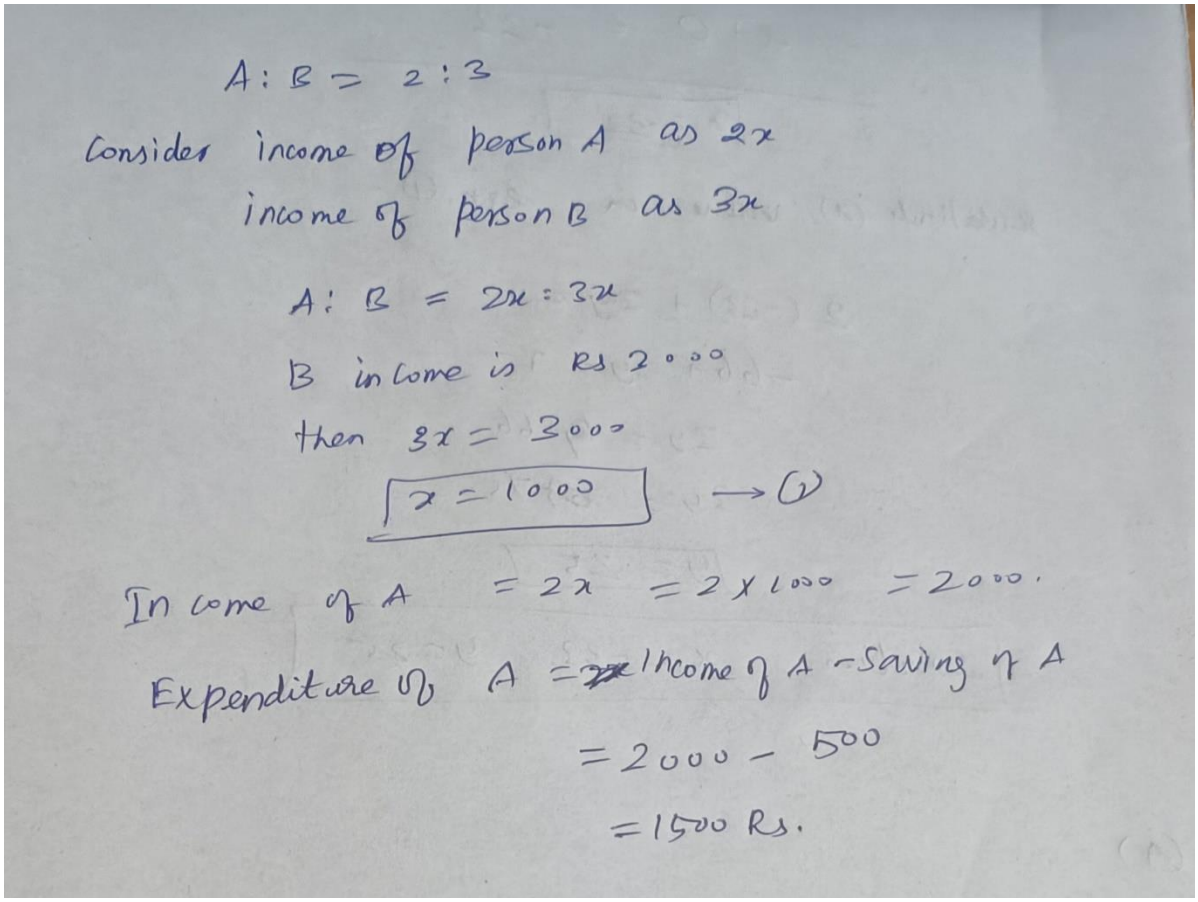
4. Equation ax^2+bx+c=0 will be ..... for a=b=c=0 .

Solution:



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: 15:23



muhammadjavith.a@gmail.com

Same A,

Income of B = $3x$ = $2(1000) = 2000$

Expenditure of B = Income of B − savings of B

= 2000 − 700

= 2300 Rs.

So Expenditure of A : Expenditure of B = 1500 : 2300

= 15 : 23

Ans: 15 : 23