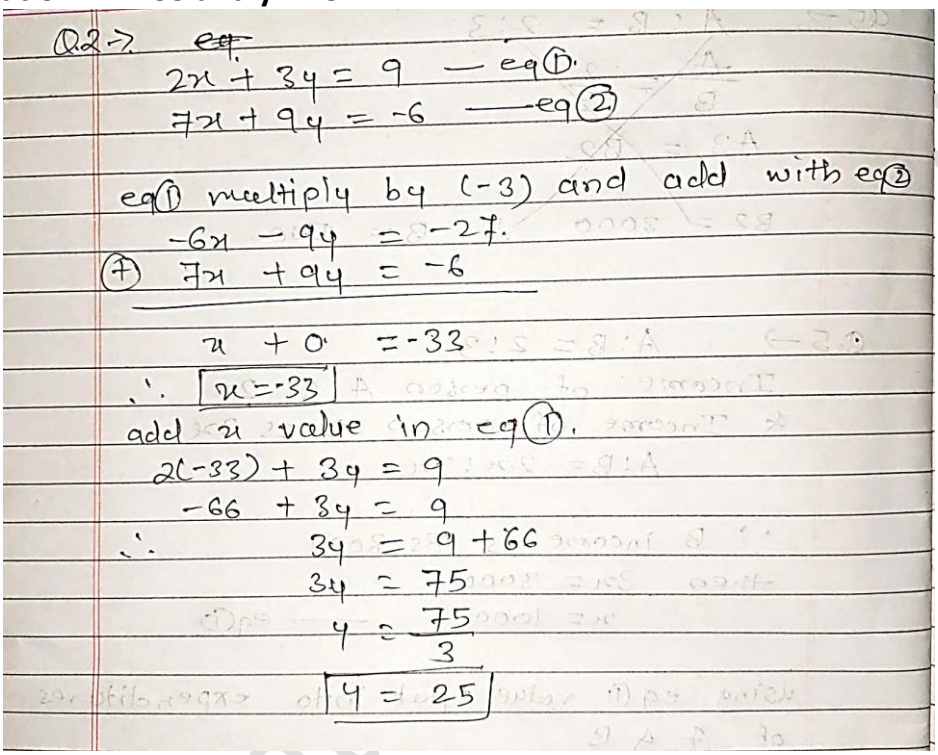
Aptitude Assignment 1

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

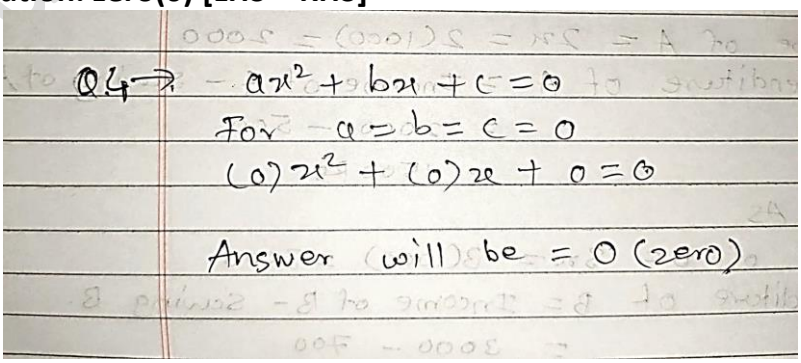


3. Equation 7x+9y=-5 has how many keys?

Solution: NA

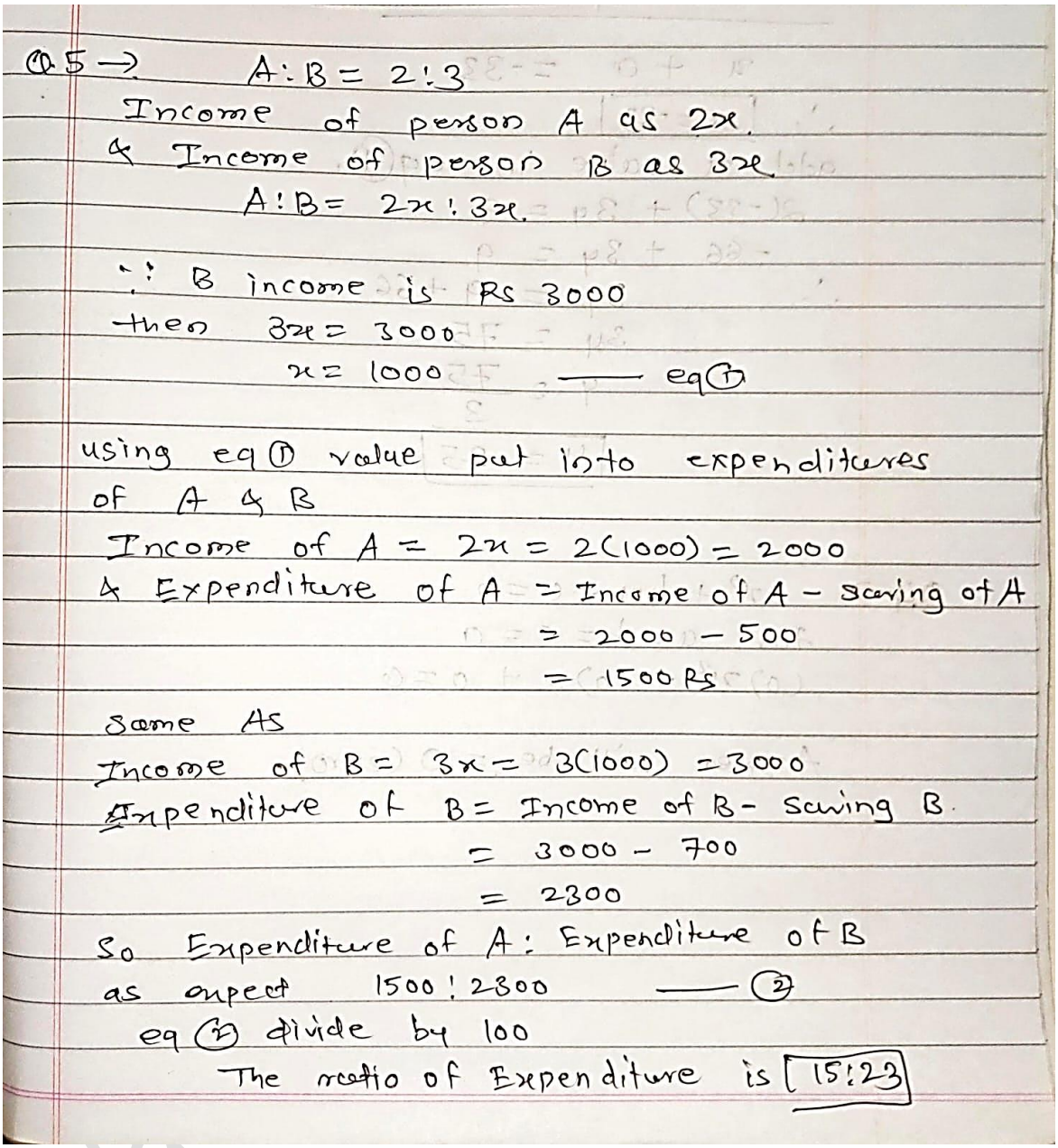
4. Equation ax^2+bx+c=0 will be ..... for a=b=c=0 .

Solution: zero(0) [LHS = RHS]



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


Q5 → A : B = 2 : 3

Income of person A as 2x.

& Income of person B as 3x.

A : B = 2x : 3x.

∵ B income is Rs 3000

then 3x = 3000

x = 1000 —— eq (1)

using eq (1) value put into expenditures of A & B

Income of A = 2x = 2(1000) = 2000

& Expenditure of A = Income of A − saving of A

= 2000 − 500

= 1500 Rs

Same As

Income of B = 3x = 3(1000) = 3000

Expenditure of B = Income of B − saving B

= 3000 − 700

= 2300

So Expenditure of A : Expenditure of B

as expect 1500 : 2300 —— (2)

eq (2) divide by 100

The ratio of Expenditure is [15:23]