The equation of the Line is

Which means for a particular value of x, let us say xi the value of y would be yi = m\*xi + c

For x1 value of x y1 value of y is obtained,

For x2 value of x y2 value of y is obtained,

And goes on

On summating all these values into one equation, it can be written as,

The objective is to solve equation 1 and 2 to attain the values of c and m

On solving the c term in Equation 1, it can also be written as,

Rewriting it as,

Substituting the value of m in Equation 2

Now only c is there in Equation 3, solving for c

Step1,

Step2,

Step 3,

On multiplying both numerator and denominator by -1

To calculate the value of m taking the value of c and substituting in Equation -1,

Equation 4 have only one parameter m, so solving for m,

On expanding RHS and cancelling terms,

The value of m,

The values of c and m are,