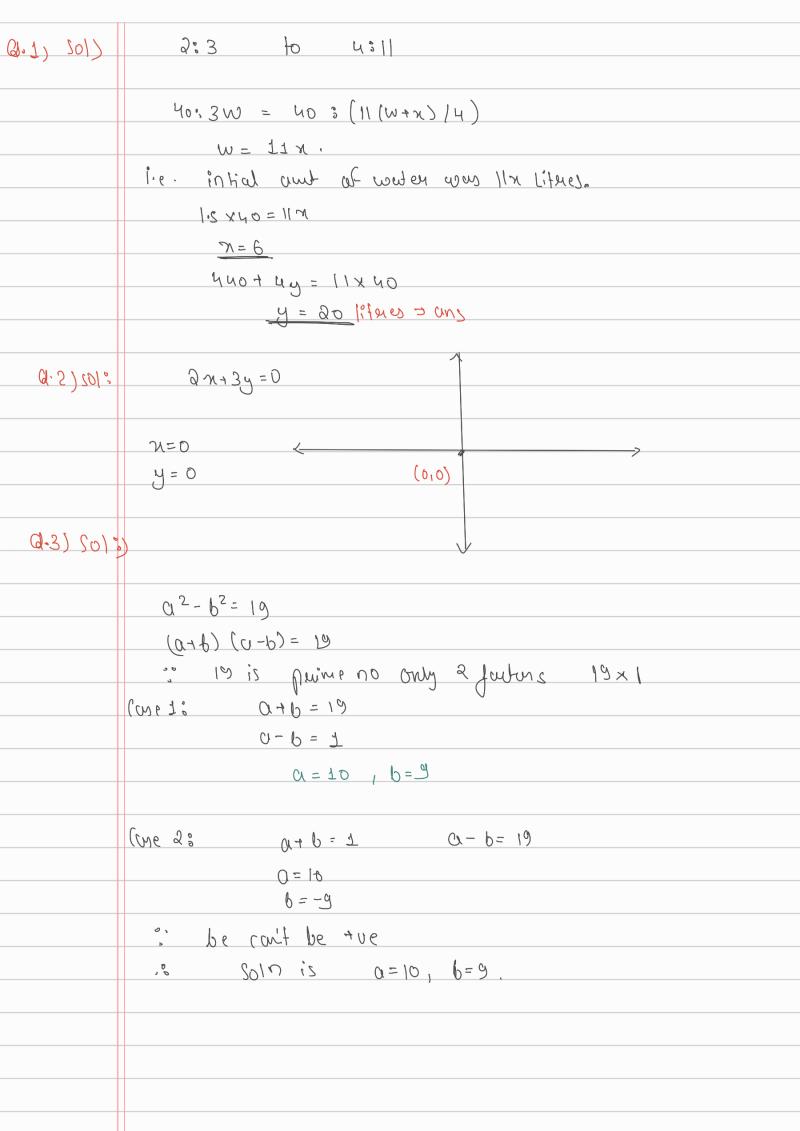
Aptitude Assignment 2

- 1. What quantity of water should be added to the milk water mixture so that the milk water ratio changes from 2:3 to 4:11. The quantity of milk in the mixture is 40 litres? 20 litres of well should be added.
- 2. Linear equation 2x+3y=0 meets the x & y-axis at the point? (0,0)
- 3. a & b are positive integers such that a^2-b^=19. Find a & b? $(\alpha = 10)$
- 4. Find a^+b^3+c^3+3abc , where a+b+c=5 & , a^2+b^2+c^2=10?
- 5. Sum of two, two-digit numbers is a perfect square. The digits of the first two-digit number are two consecutive positive integers; also, when the digits of the first number are reversed, the second number is formed. Find these numbers & the square root of their sum.

Shoot of their sun 13 155.



```
(a+b+c)2= 02+ b2+ c2+ 2 (ab+ bc+ac)
Q. 4) 501)
              S^2 = 10 + 2 (ab+b(+ac))
              ab+ bc + ac = 7.5 -1
       Now;
         (0+b+c) (a^2+b^2+c^2-ab-bc-ac)=a^3+b^3+c^3-3abc
           5(10-7.5) = 031631(3-3ab)
         .. 03+63+ c3-3abc = 12.5 → Am
 G-51501: n 8 y ou digits.
             n=y-1
      ) 10 nt y )
          114-70
       sievenies loy & x -cz
       Jum of 0 + 2
            (11y-10) + (10y+n) = 21y+n-10
         : where D+(2) (sum) is perfect square
             214+ N-10= K2
                    : n &y one blow [0,9]
         .: 2 digit nois ou 23 832 -> Ans
```