21 M: W Msignment - 2 2 In Ques it must be 2:3 x4 a3+63+c3-3a5c 4:11] +2 (a+6+1)=5 a2+b2+c2=10 M: N a3+b3+2-3a5c=(a+b+c)[a2+b2+c2-ab-be-ca] 8:12]10 mid 1 unit = 1 ltr (a+b+c)= a2+52+c2+2(ab+bc+ca) 10 unit = 10 lts  $(5)^2 = 10 + 2(ab + bc + ca)$ So, Tol water is added to the 25-10 = 2 (a5+61+cg) milk water [ab+bc+ca=7.5] mixture.  $a^3+b^3+c^3-3abc=(a+b+c)$ [a2+62+c2-ab\*-bc-ca] Q2 2x+3y=0 Jaking RHS for x-anis, y=0 (a+6+c)(a2+62+c2-(a6+6c+ca)) 2c+0=0 2=0 5\*[10-7.5] 5\*[2,5] for y-axis, 2=0 3 y = 0. a3+b3+c3-3abc= 12.5 ghg Q5 Consecutive positive Integers are (0,0) dry 12+NO=10x+(x+1)= 11x+1 2 a2-b=19 2"dN0= 10(x+1)+x=11x+10 (a-b) (a+b)=19 (11x+1)+ (11x+10) (a+b)\*(a-b) = 19Sit is a perfect square a+b = 19 on putting 2=5, we get 22+5+11=121=(1) 1 a=10, b=9 So, 1st No=11X5+1=56 2nd No= 11 x5+10=65 Square root 56765 = 5121 = 11