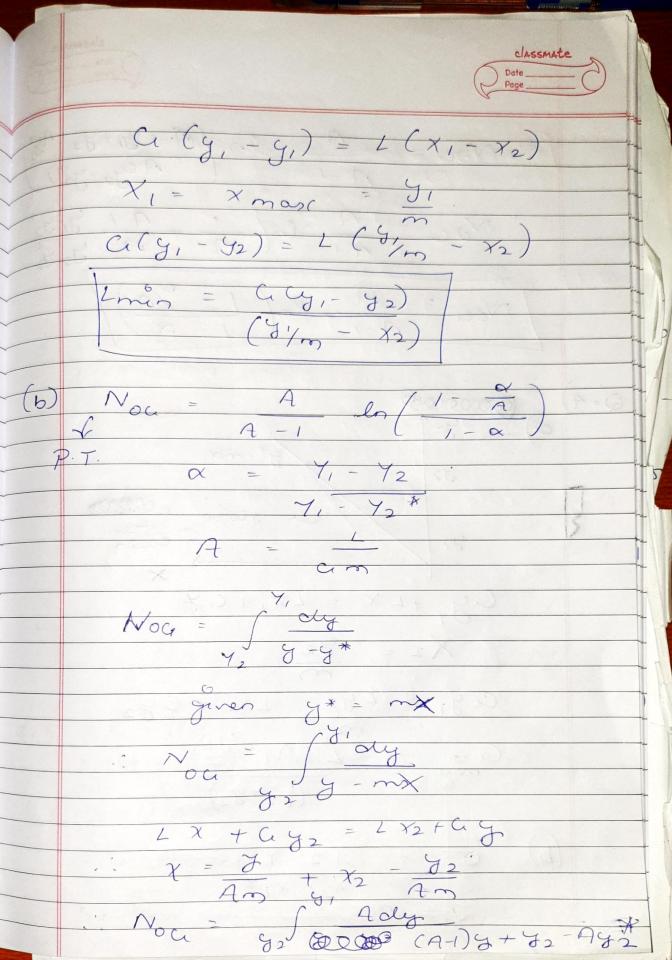
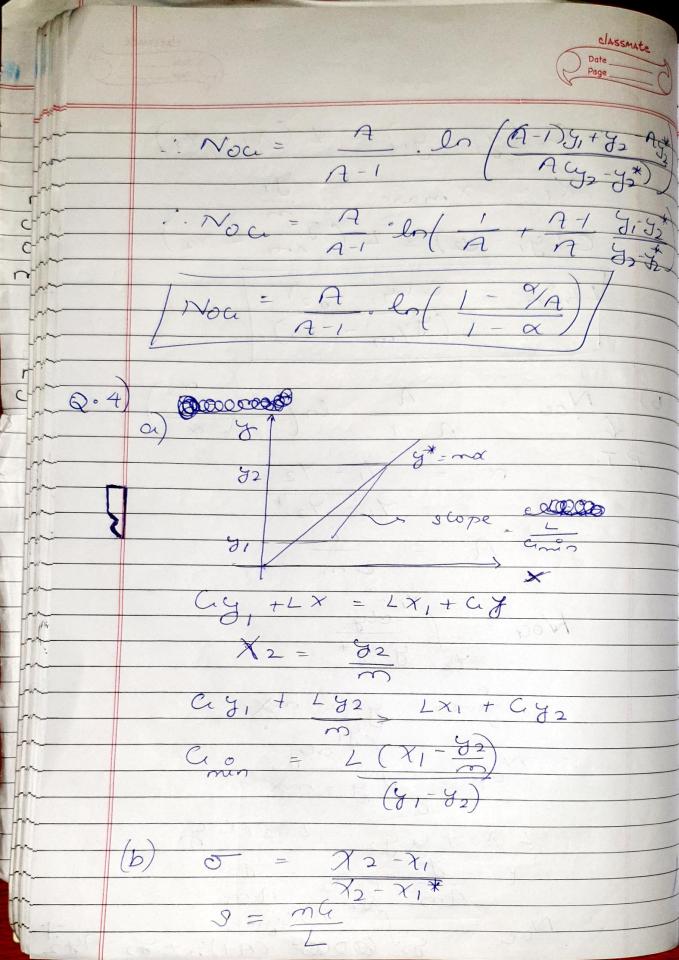
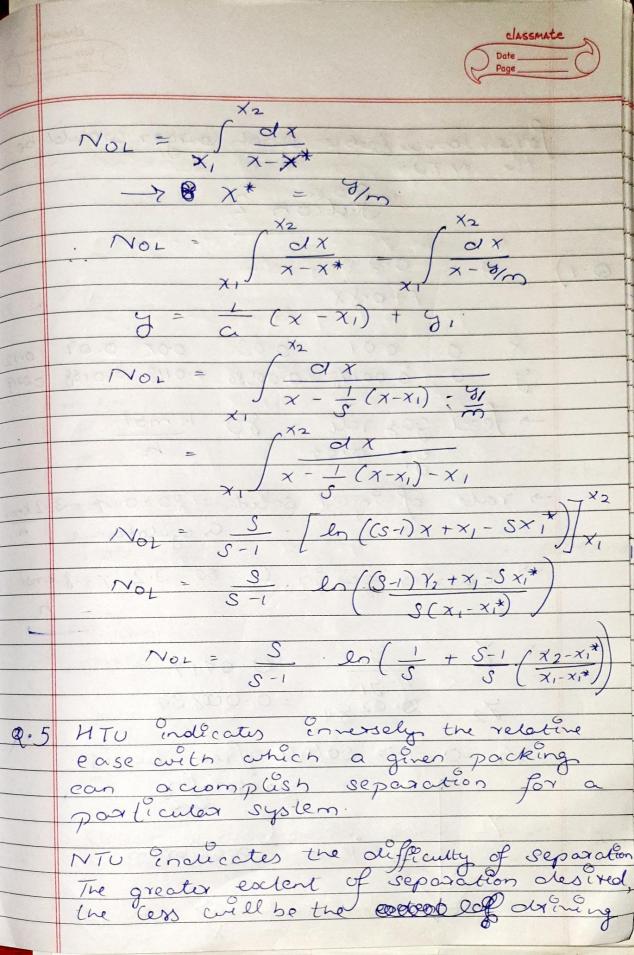
Classmate

Date \_\_\_\_\_\_ Assignment Vorun Madhavan h = \ \ \ \( \tau \) \ h\_ = \( \int \frac{g'(a', g') a g odg'}{(1-g) cy-g')} \) where y= (1-y) = (1-y)-(1-y)  $h_{7} = a'$  f(-g) = dy f(-g) = dy f(-g) = dy f(-g) = dy f(-g) = dywhere Ky = Ky (1-y)  $N_{g} = \int (1-g)^{\circ} dy$   $y_{2} (1-y) (y-y^{\circ})$ N= Koc X-X\*)

classmate Material bolance IN ciq = Out of Out mass transfer  $S.L.X(z+\Delta z) = S.L.x.Z$ +  $N.a.S.\Delta z$ L. X(z+1)- X(z) = N.a or 12 20 L: dor Koc a (x-x\*)  $H = \int_{\mathcal{A}} dz = \frac{L}{x \cdot \alpha} \int_{\mathcal{X}} dx$ Not = folx y = m x. Q.3 (a) min · Gig · flow rate for absorption.







Porce available and Carger would be the NTU: Section 2 y = 0.2x 1+0.8X X 0 0.01 -0.03 0.07 0.09 0.12 y 0 0.00198 0.00586 0.0113 0.0168 0 0219 -> feed gay rete = 80 kmol 9: 0.04 -> rate of input solute = 80 x 0.04 = 3.2 km Co cyclohexane h -> Carrier gag in, Cg - 80 - 3.2 - 76.8 kmol = 41 - 0.0117 7-9, -0.008341/2 =0 -> solute free basis. r operating eg ilibrium Q

