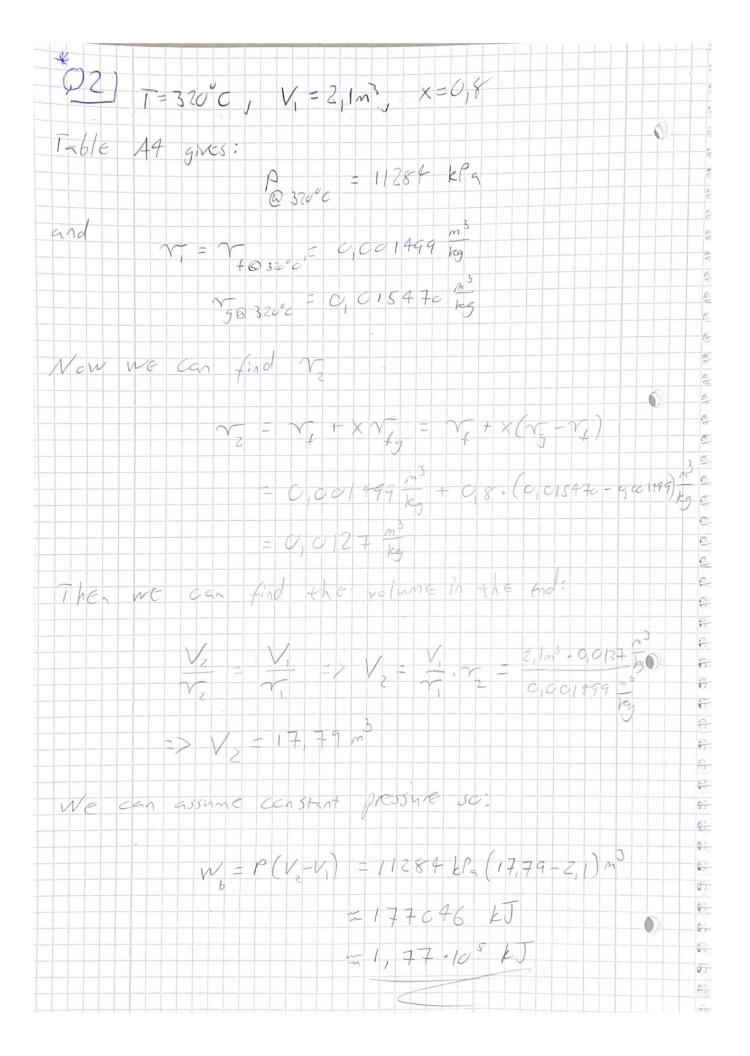
Indi Kenit Varnefrati - Danabled 3 m=1,3 kg $V_1=7,5m^3$ P=180 LPa Rhdinn = 2,077 kg.K The initial temperature: PV, = mR, T, => T, = mR, elium => 1,3 kg. 2,072 kg. K Final temperature: P, V, = P, V = T, P, V = T, V = T, V = T, V, 72 - Scake 2,5,3 = Total work: W=P(V2-V1) = 180KC - (2,5m3-7,5m3) = -900 kJ Which means that the werk required for the compression is 900 kJ



K= 975m3, P, = 14ee KP3, P, = 55c kPe, X, = hare (from toble A12) beginis n6 = 0,014107 9 @ 14cckPa 100 71@ 55che = C, CCC8130 = 3 73@ 55che = C, 037408 = 3 550 kPS WE have 177 1/4 100 risid tank: because it's 15 =Vz STACE 13 0, 0 4 107 kg - c, cce 8 130 10 119 C, C37468 = C, CC68130 119 119 /IB - 0, 3 63 which is a sotunted 119 /CB 15 then: temp T = 550 kg = 18 73 2 G17523 New wo have 3 53,17 C, C141C7 kg 2 2 2 NG know that X2 = 0,363 2 200 SC amount condensed is. $m_f = (1 - \chi_z) m_{tota}$ 0 0 = (1-0,363)-53,17 kg 2 2 = 33,87 kg 2 2

