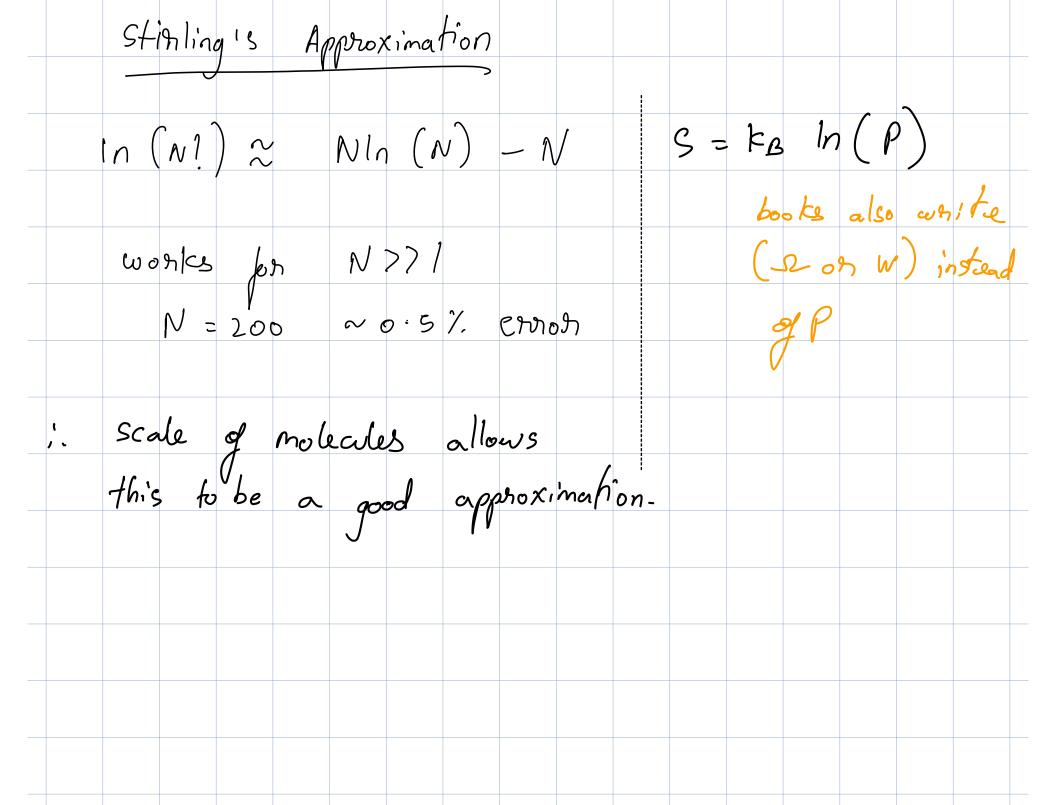
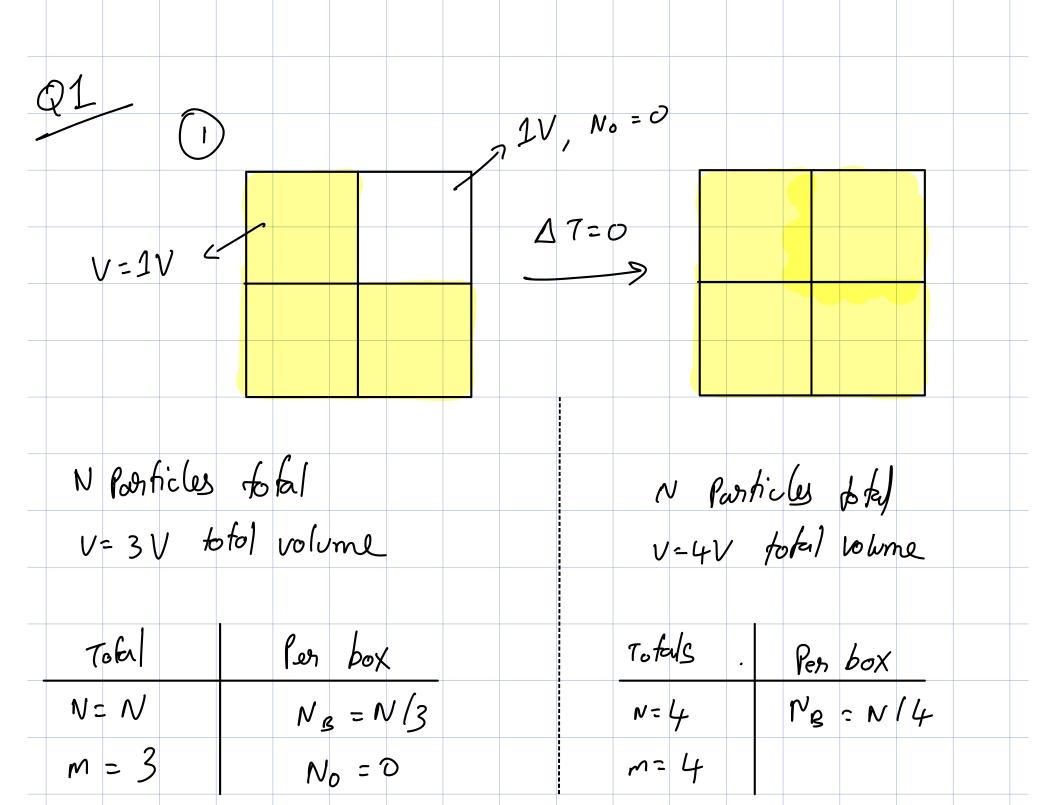
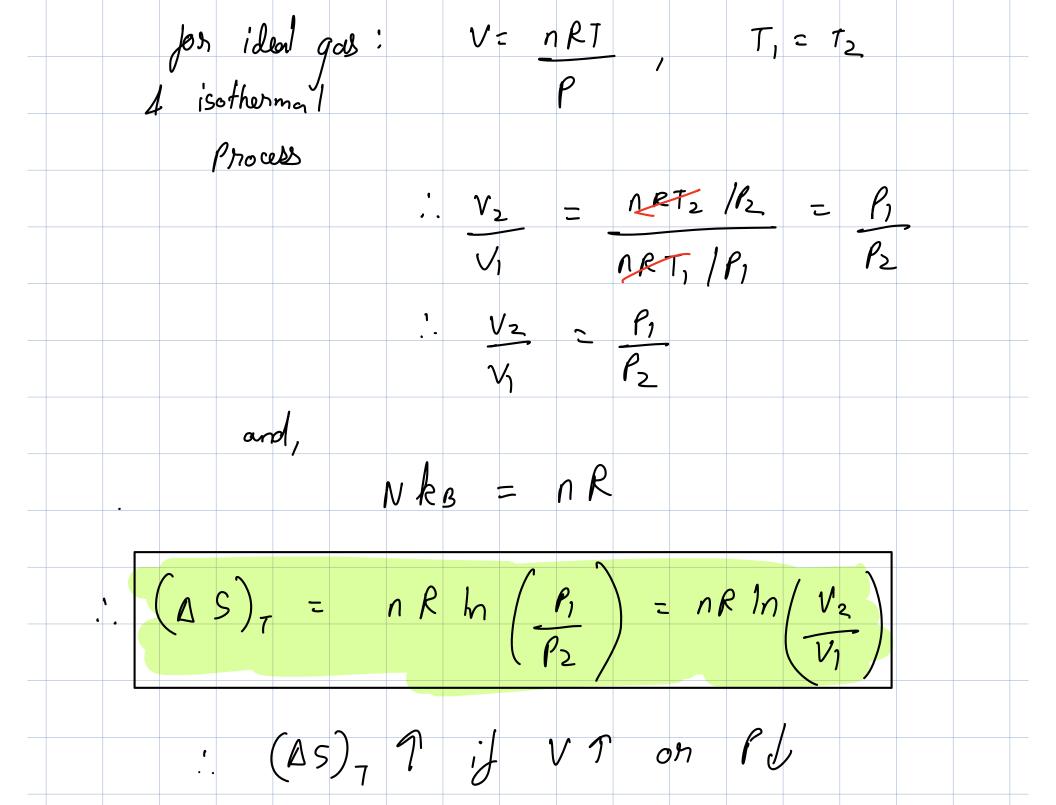
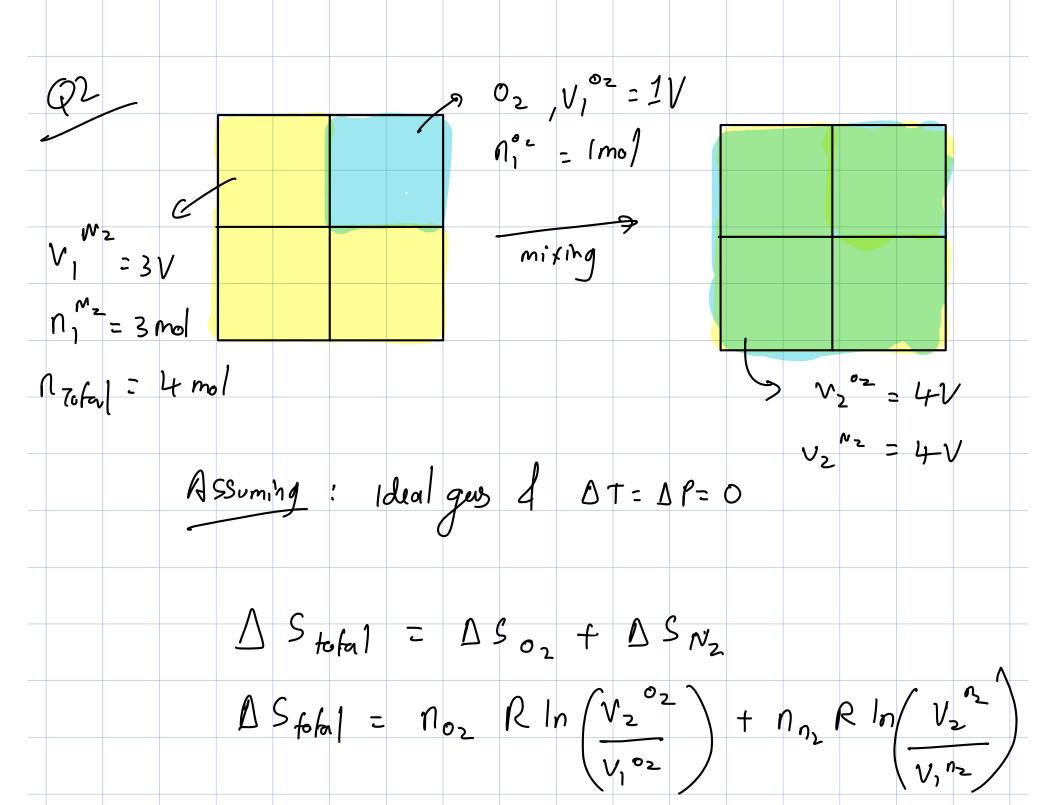
Thermo CCI Ta (101) #5 (03/07/2023)





$$\frac{1}{N} = \frac{1}{N} = \frac{1}$$





.. As
$$\rho hal = 1R \ln \left(\frac{4v}{1v}\right) + 3R \ln \left(\frac{4v}{3v}\right)$$

$$= R \left[\ln 4 + 3 \ln \frac{4}{3}\right]$$
.. As $\rho hal = 18.75 \text{ k}^{-1}$

Goranal form
$$\Delta S_{lobal} = \Delta S_{02} + \Delta S_{w2} = \Delta S_{mix}$$

$$\Delta S_{lobal} = \Lambda_{02} R \ln \left(\frac{v_2^{\circ 2}}{v_1^{\circ 2}}\right) + \Lambda_{w2} R \ln \left(\frac{v_2^{w2}}{v_1^{w2}}\right)$$

V, N2 = XN_ Votal

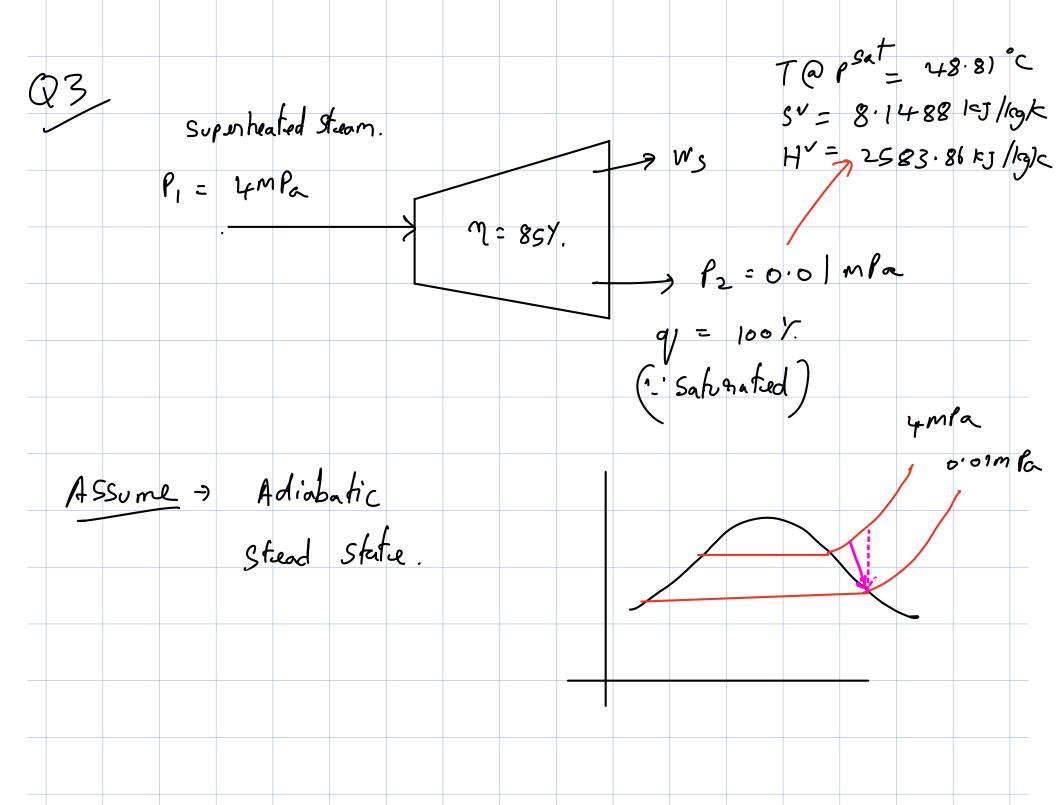
V, N2 = XN_ Votal

V2 = V2 = Vdotal Noz = Xoz Ntota) nn, = xn2 npfm/ ! A Spotal = R (Xoz Nobal In (Votal) + Xnz Nobal

[Xoz Votal)

[Xnz Votal)

1 Smix =	- npkil	RZ	x: ln(x;)	
<i>""</i> \		i		



Ehergy:	bolonce			
45		70 (adiabatic)		
	<u> </u>	tws 1		
		ws'		
	D (4 =	DH'7		
	7 =	w/s		
		ws ¹		
outlet				diabatic 4 Juvesible
	Pz = 0.01	npa		Process.
		48.81°C	1	
			g K = 52 =	but in this
	14 v = 2	583.85 K	Illa Ic Pr	ous S2 CS,
			beco	use irsev. work fransfer.

	$\mu_{\xi} = \mathcal{D} H' \mathcal{N} + \mathcal{H}$
	H = DH'M+H, @ 1 sat = 0.01 MPa
	SL 0.6492
	Sv 8.1488
	H- 191.81
	H N 2 583.86
inlet	Picka 7 with -> S < Sz } because coorle transfer is in the v. i.e efficiency (n) < 100%.
	Picka 7 with -> S < Sz } because crossle transfer is
	infev. i.e eppicioncy (n) 2100%.
let	7 = 700°C
	$q_1 = s_1 - s^2 = o \cdot 93$
	DSme

$$H_{2}' = H^{2} + 9 \Delta H^{vol}$$

$$H_{2}' = 2415 \cdot 04$$

$$\Delta H' = 2415 \cdot 64 - 3906 \cdot 3$$

$$= -2490 \cdot 66$$

$$\Delta H = \Delta H' \eta = -1267 \cdot 06$$

$$H_{2} = \Delta H + H_{1} = -1267 \cdot 06 + 3906 \cdot 3$$

$$= 2639 \cdot 2$$

$$Q' = \frac{H_{2} - H^{2}}{\Delta H^{vol}} = 1.02$$

T= 65	O			
+				
	6 So) S ₁ =		
H	3790.1	y 2	S1 - 5 = 0.9	J
S	7.4988	,	1 5 val	
H 2 =	H + q DH vap			
	2376.54			
DH' =	2376.54 -3790.	1		
67	- 14 13.56			
∆ # = L	1 + n = -1201.53			
	14+H1 = -1201.5			
	= 2588.6	-		
	= 2588·6	9 ≈ 1.00		

ſ																
١.	S	רשקט	heat	at	in le	f =	7	= 6	500	(
		a 1	0	1		1.		, ,		a ()			1.0	c (1	1,
	Wo	ne	done	by	tw	bire	: C	5	_ (7 u	2	- [4	F13.	56	[cJ	/Fg