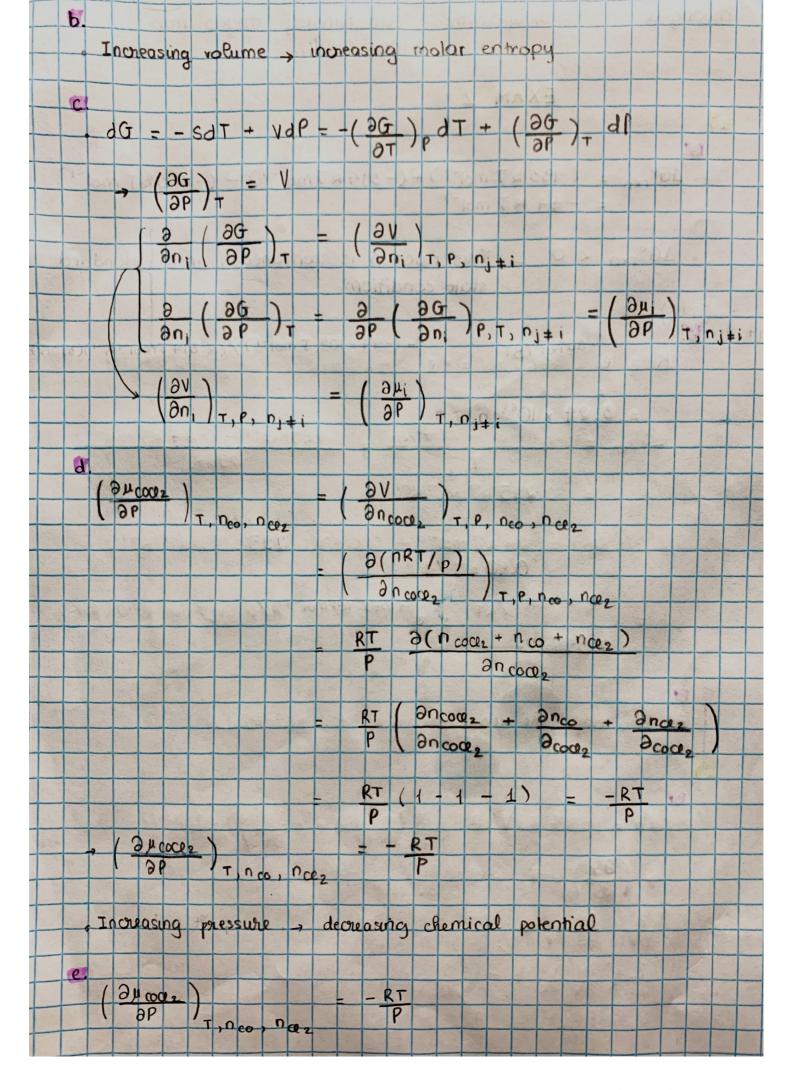
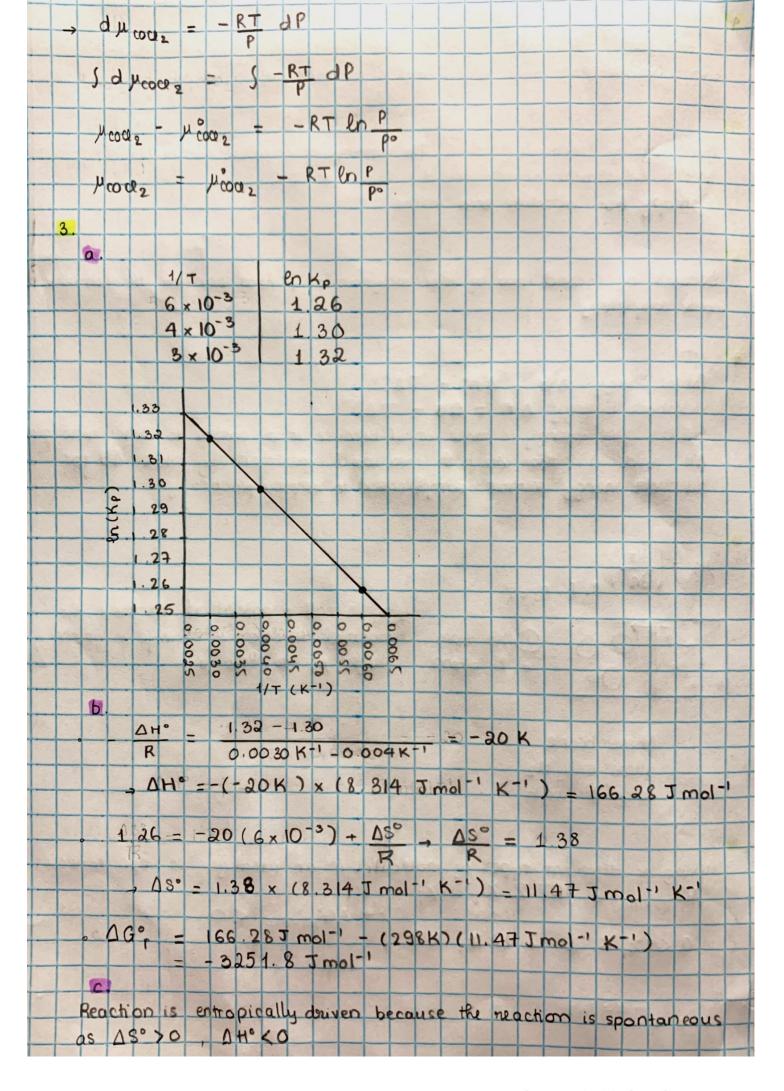
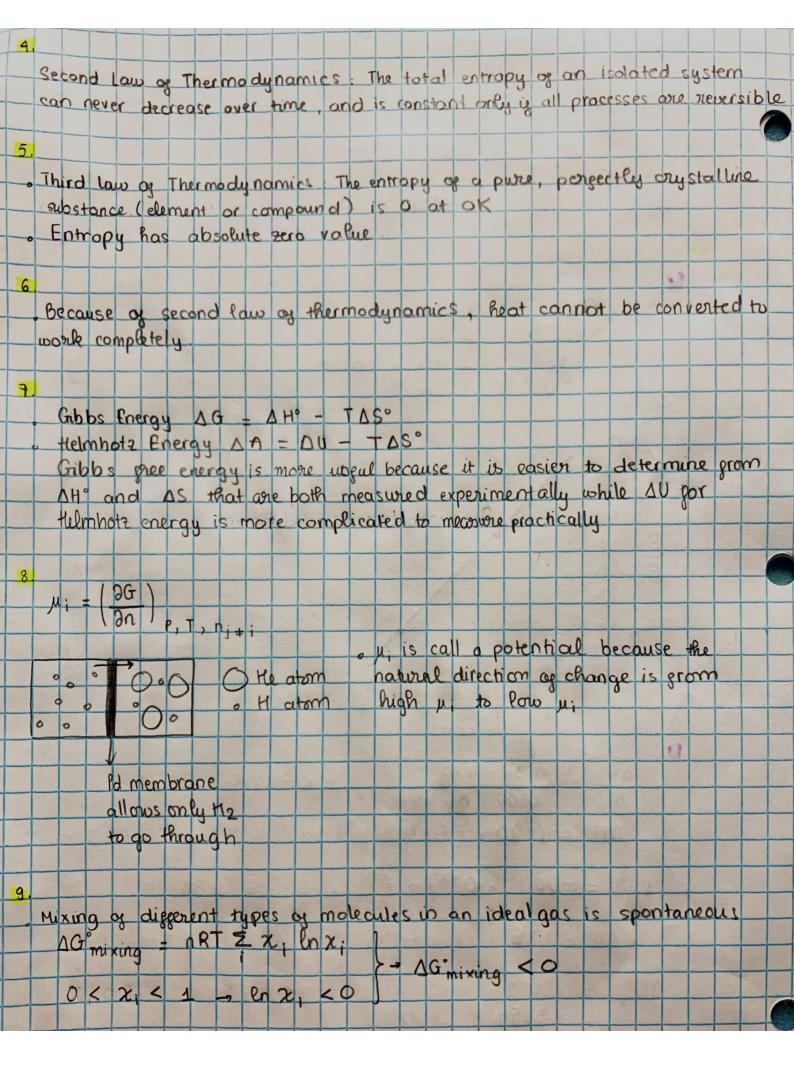
Phwong le	Group with: Špela Kunstelj, Angela Tran Anas Saleh
	EXAM 2
1)	
AG°	(-133 kJ mol-') + (-394 kJ mol-') - (-463 kJ mol-')
TXN L	- 64 RJ mol-'
· AG°rxn <	O, This reaction is spontaneous under standard
	state conditions
b.	
	-166 kJ mol-1) + (+394 kJ mol-1) - (+584 kJ mol71)
	4 kJ mol-1
. As° =	ΔH°xn - ΔG°xn _ 24 kJmol-1 - (-64 kJ mol-1)
	T 298K
	0.295 kJ mol-1 K-1
408/8042	
. AG (80K)	= 24 kJ mol-1 - (80K)(0 295 kJ mol-1 K-1)
	- 0.40 k 2 molt 1
K = e - ΔG	(80K) /RT = e-(0.40×103 Jmol-1)/(8 314 Jmol-1K-1) (80K)
- 0.54	
C.	
At low temp	, the reaction gavors the reactants
2)	
0 dA = -s	dT - PdV = 12A ) dT + 12A ) dV
0 0 1 = 5	$dT - PdV = \left(\frac{\partial A}{\partial T}\right) V dT + \left(\frac{\partial A}{\partial V}\right) T dV$
(A6)	=-S and (DA) = -P
Tell	(av)T
· 9 ( 34 )	= - (35)
av at	V 2V/T
3 (3A 3T 3V	$\left(\frac{\partial F}{\partial T}\right)_{V}$ $\left(\frac{\partial S}{\partial V}\right)_{T} = \left(\frac{\partial P}{\partial T}\right) = \frac{B}{K}$
A6 V6	$\frac{\partial}{\partial T} \left( \frac{\partial A}{\partial V} \right)_{T} \rightarrow \left( \frac{\partial S_{m}}{\partial V} \right)_{T} - \frac{\beta}{DK}$
	TO OTION / J NOW / T DK







10					
Kn= e- 116 / RT					
4G° > 0 -	- AG° <	0 3	e- DG PRT	<1 -	Kp < 1
$K_p = e^{-\Delta G^{\circ}/RT}$ $\Delta G^{\circ} > O$	RT				
-> More reacta					
377 7 10 10 10			a so as us	a salaha I	- 34 50 60 33 85
Extra credit					
van't tlogg equ	ation:	en Ke =	(- AHO)	1 + 4	S°
			1 1		
. Shows the temp	orature de	ependence	of equilit	orium cor	nstant.
- RTenK =	DG° =	DH°.	- TAS°		
			S 18 S 1 S 1		
→ ln K	= - 4	Nº /1	) + AS	0	
		RIT	P		
Calle - se					