





The same of the sa			
	Adiabatic reversible process 1 As = 0/10/11/19 motomore		
	irreversible process, $\Delta s \neq 0$		
	$3(1, \sqrt{3}) = -4(1, \sqrt{3}) = 44$		
•	Reversible process  Irreversible process		
	(AS) sys + (AS) sum = 0 (AS) system + (AS) sum > 0		
	() 5/5/6/1/ () 54/1 / ()		
<b>⑤</b>	(ΔS) suct = 9 suct (@ At equilibrium ΔS = ΔH		
	T		
	- If dota is given in term of BE then (gas is),		
8.	Gibb's Free energy:		
	$\gamma(B \cdot E)_{\rho} - E(B \cdot E)_{\rho}$		
0	G = H - TS @ AG < 0 spontaneous		
9	$\Delta G = \Delta H - \Delta (TS)$ $\Delta G > 0$ non-sportaneous		
	at constant temp. $\Delta G = 0$ Equilibrium		
	O) For on ease an ka sign Badal juba heeΔT - HΔ = DΔ		
3	At equilibrium AG =0 ylitton idd on na glattum men (d		
3	c) EXE RO add AH KE bhi add Marna. SAT = HA		
	$\Delta S = \Delta H$ $T = \Delta H$		
	T AS		
	· · · · · · · · · · · · · · · · · · ·		
(5)			
	- + - always spontaneous		
	+ - + always non sportaneous		
	+ + spontaneous at high temperature		
	- spontaneous at low temperature		
0			
<b>(6)</b>			
	At eq. $\Delta G_1 = 0$		
	9 = K		
	$\Delta G' = -RTIn(K)$ $\Delta G' = -2.303 RT log(K)$		

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	Thermochemistry	Date	
_	If Formation etithalpies given in pr	oblemin susy situation	
	0 + 6/ 4: 200 rd	irreversible	
	ΔH = E (ΔfH)p - E (ΔfH)R		
	Irreversible process	Reversible process	
_ (	If enthalpy of combustion are given	(24) t sys (24)	
	HΔ = ΔH = ε (ΔcH) R - 8 (ΔcH) P	- Jame ( = 1) same ( = 1)	
	T	T	
_	If data is given in term of B.E then (gases),		
		Gibbra Free energy;	
	$\Delta H = \mathcal{E}(B \cdot E)_R - \mathcal{E}(B \cdot E)_P$		
ري ا	@ AGI (U - spantanevu	G= H-TS	
&u0≃0	Hessiama OKOA	46 = 4H - 4 (TS)	
m	temp. AGE - Saullibriu	trustanos to	
<u>a)</u>	RXD REVELSE AH Ka sign Badal jata	$\Delta G = \Delta H - T$ . Aish	
b)	RXD multiply AH KO bhi multiply ko	At equilibrium Dosc	
c)	RXN KO add AH KO bhi add kaind		
	$M\Delta = T$	$\Delta S = \Delta H$	
-	ΔS	-	
. 4	CAST LESS TO THE STATE OF THE S		

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Butt

10 AGE = AGE + RTIN (8) 11 Eq. AGE = 0 12 EK

26. = - KTID(K) AGP = -2.103 KT 109 (K)