	Athigur Rahman
	Problem sof 4
Analytical 1.	150 tor the expansion process
	SdS=Solg/T Since it is a reversible adiabatic
	process org = 90 pt () and the
7.	All Attend AS is O for the entire cycle.
- La	DU, Att, and AS is O for the entire cycle. nR That In (Vb/Va). This step occurs from a to by
THE REAL PROPERTY.	which is the isothernal enems in
c.	World = -nRTnot In Ta -nRTcold Je
	which is the isothermal expansion. which is the isothermal expansion.
	Whotal = -nRIn Vo (Thot-Toold) work is negative E= (nRIn Vo (Thot-Toold) / (nRIn Vo Thot)
d	E= (nRIn Ja (Tnot-Toold)/(nRIn Ja Tnot)
1 15	= 1 - Tisia/Thot
	The efficiency is greater than I because Total (That
	20 (35) 10 1 (35) 17
30	d5=(37) d1+(37) gd
	はらっ(学りはりゃくきょ)のはて
F 1275	B (37) P Q = 7 (30) T
Ь.	ds= fdT-Brdp
M. wall	DHM = (-1364-278-394)-(1273)=-763 KJ/mol
1 Anner 10 19	1 0 San = (192+161+213)-(209)=357 3/molk
	DSrxn = (192+161+213)-(209)=357 3/molk DSsnr = -DHrxn/T=(-763×1000)/(298.15)=2559.1 3/K
	D&S ASTAS - 357+2539.1-1 2716:1 3/1
	D Gran = OHran - T DSman = (-763000) - (298,15x357) = -86,94 (5)/mo)
	The reaction is sportcreons because D Gran is less than O,
12	dH=CpdT JdH = 535113 Cpd T=535113 69,6+2,38 ×10 For7
	May = Jana (-76,77 6,300) Jid pttc 1178,000
	result is -2,469 (=3/mo) DrapHm (78,3°C)=

