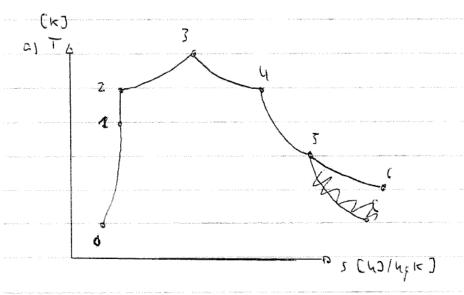
5) 
$$T_{KF} = \frac{\int_{e}^{\alpha} T ds}{S_{\alpha} - S_{c}} = \frac{\Lambda}{S_{\alpha} - S_{c}} \cdot (\frac{T_{\alpha}^{2}}{2} - \frac{T_{e}^{2}}{2})$$

$$S_{\alpha} - J_{c} = C^{if} \ln \left( \frac{T_{z}}{T_{z}} \right) =$$

c) 
$$S_{CCZ} = in[S_a - S_c] - \frac{G_{CONS}}{T_{KF}} =$$

		[°( u]	[50]		
		T	F	Wigh = 200 m/s	
2.	Ø	243.15 -30	0.191	Capp	
	1			12 vis EA, wire	
	7			ische-	-
	3			& QB = 109543/4, TB = 1289K	
	ų		0.5	ischar	
	2	K 471.9	٥.5	w; = 220 m/s	
	C	32¥.	0,191	b is introp	



5) 
$$W_{1} \otimes T_{1} : T_{2} = \frac{P_{2}}{P_{1}} T_{5} = 328.075 \text{K}$$

-0 is where

 $U_{1} = \frac{V_{6}}{V_{5}} \cdot U_{5} = 432 \cdot 422 \cdot 442 \cdot 444 \cdot 444$ 

$$R = c_p - c_v = 0.2874$$
 $K = \frac{c_p}{c_v} - c_v = \frac{c_p}{K} = 0.719$ 

$$V_6 = \frac{RT_c}{P_6} = 0.0049 \, \text{kg/m}^3$$

c) Ocxistr = existre - existro

Dexsir & = wilha-he - To (sa-sc) \$ she] = 87.829hJ/hg

 $h_a - h_c = L_p(T_c - T_o) = 85.430 \mu J/4g$   $T_o = 243.15 K$ 

 $S_{q} - S_{c} = C_{p} \ln \left( \frac{\Gamma_{6}}{\Gamma_{0}} \right) - R \ln \left( \frac{\Gamma_{6}}{\rho_{0}} \right) = 0.30136 \text{ h} 3/h_{f} \text{ K}$  $\text{Ohe} = \frac{w_{6}^{2} - w_{0}^{2}}{2} = \frac{15}{6} + 1.193 = \frac{15}{6} \cdot \frac{6}{6} + \frac{15}{6} \cdot \frac{15}{6} + \frac{15}{6} + \frac{15}{6} \cdot \frac{15}{6} + \frac{15}{6} +$ 

d) expect out inger scrapes

Exect = To jert - Cxiver = To jert

 $i_{c-1} = (j_0 - j_c) + \frac{q_j}{\overline{r}_j} = (j_0 - j_0) + \frac{q_B}{\overline{r}_0} = 1.2284$ 

 $S_{c} - S_{o} = C_{plu}(\frac{T_{c}}{T_{o}}) = 0.3013(4)145K$ 

 $\frac{98}{TR} = 0.922 LJ/49K$ 

cx, vo1 = Toscor = 298.6942/49/

$$m_{5}: m_{5} = \frac{p_{2}V_{1}}{RT_{1}} = 0.0684 m_{el}$$

b) 
$$PGZ = PGA = 0$$
 Malle steight nicht, somit sleight der Princht

howstand  $P_{g,Z} = 1.4016gry$ 

c) & Mossoca 
$$\Delta u m_G = Q_{12} = -1082.23 \text{ WZ}_{3}$$
  
 $\Delta u = u(\bar{1}_2) - u(\bar{1}_1) = cv(\bar{1}_2 - \bar{1}_1) = -316.49843/4$   
 $m_{17} \bar{1}_2 = 0.003^{\circ}C$ 

d) 
$$u_{\Lambda} = y_{\text{Flarkly}} + x_{\text{Fish}} (y_{\text{Fest}} - y_{\text{Flarkly}}) = -200.0928 LJ/Lg$$

$$y_{\text{Fest}} (0^{\circ}C) = -333.458 LJ/Lg$$

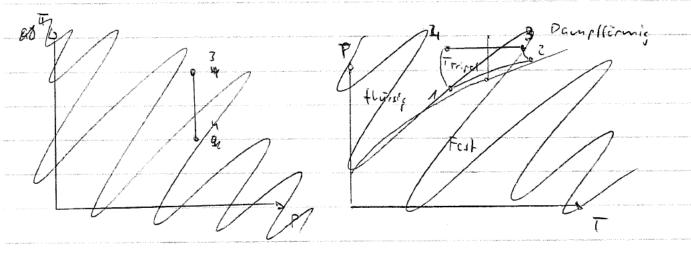
$$y_{\text{Flarkly}} (0^{\circ}C) = -0.0454J/Lg$$

$$U_{\Lambda} = u_{\Lambda} v_{\Lambda} = \pm \lambda_{\text{CO}} c_{\text{TW}} - 20.009 LJ$$

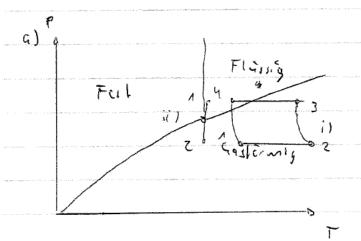
$$U_{1} = -20.0092846643$$
 $U_{1} + Q_{12} = -21091.513$ 
 $U_{2} = \frac{U_{1} + Q_{12}}{W} = -220.9743449$ 
 $U_{2} = \frac{U_{3} + Q_{12}}{W} = -220.975743149$ 

$$X_{2,Eis} = \frac{U_2 - V_{Floratis}}{V_{Floratis}} = 0.63250 = 0.633$$

and the second s										
١.		7 Ti	p [Sil]	X						
	1	- C			-> -6K 24 T;					
	7			1	, iscutrop 1 = coust					
	3		8	\$4	= Wu = 78W					
	4		8	0	-b Q42					



IN MATERIA



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