$$\frac{0.3(-125.67) + 0.8}{5 + 0.3} + 100 = 0.3$$

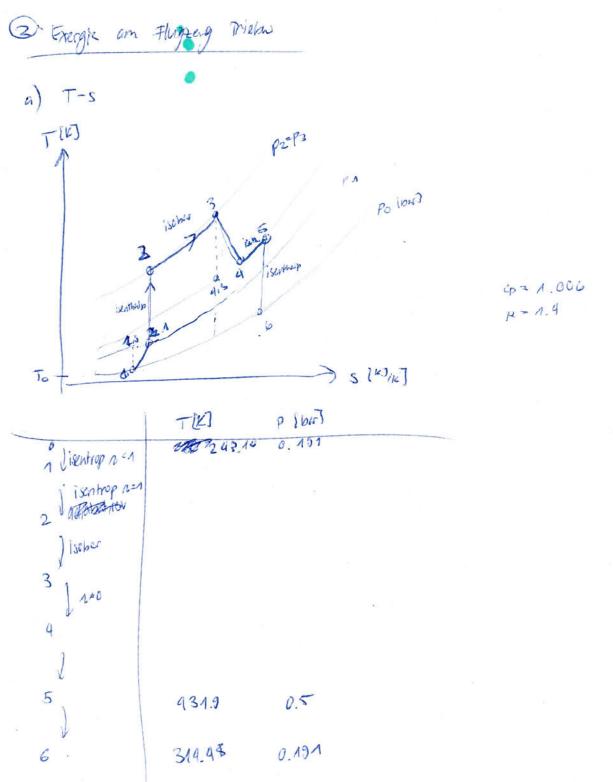
Quite izen Stromein

16)
$$T_{ex} = \frac{14 \text{ Tag}}{53^{-5}\text{ F}} = \frac{10}{50} \frac{10}{10} \frac{10}{10} = \frac{298.15 - 288.15}{10} \Rightarrow 293.12 = T_{ex}$$

$$\frac{m_W}{m_{ef}} = \frac{1}{2} \frac{m_W}{m_{ef}} = \frac{1}{2} \frac{m_W}{m_{eff}} = \frac{1}{2} \frac{m_W}{m_{eff}}$$

$$(S_4-S_3) = S_4^{if}(T_4) - S_4^{if}(T_3)$$

$$= cif - In\left(\frac{T_4}{T_3}\right)$$



$$\sqrt{200^2 \frac{m^2}{5^2} + 2.5.8.71.9} = 600 W_6 = 202.67 \text{ m/s}$$

Exergie bilanz

$$C_{xsr} = 71.9 - 243.15 (S_{6} - 60) + \frac{200^{2} - 516^{2}}{2}$$

$$= \frac{1}{2} \exp \ln \left(\frac{16}{r_0} \right) - \exp \left(\frac{r_0}{p_0} \right) = \frac{cp}{cv} = n \Rightarrow cp = n \cdot cv = 1.4.1.006 = 1.4$$

$$(54-53) = G_p \ln \left(\frac{T_4}{T_3}\right) - R \ln \left(\frac{P_4}{P_3}\right)$$

1e AS12 MARS

Enropiebilanz

This

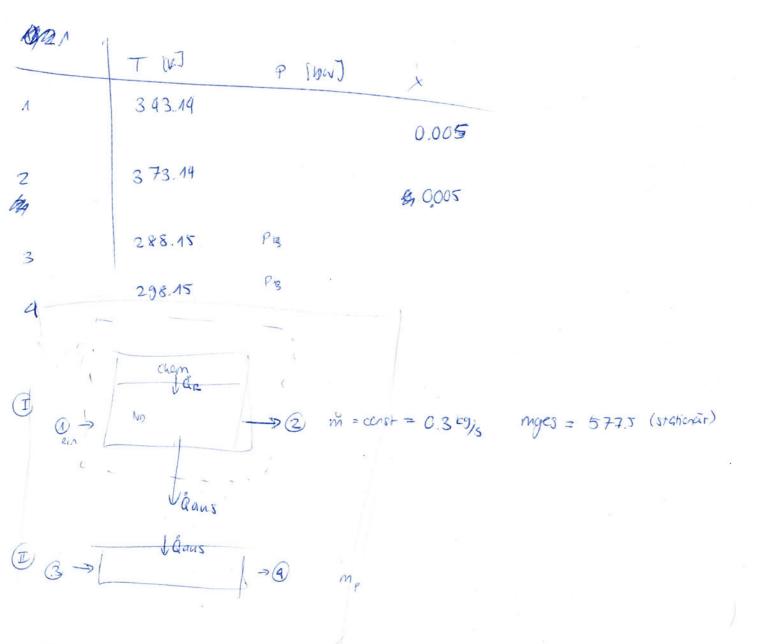
Tags

Value(G)

AS THE

ΔS = (mto+ s₂ (at T=70°) - m₁ s₁ (at T=100) + Qab Tw

7



a)
$$\hat{Q}_{aus}$$
 mit Energiebivanz (I)
 $0 = \hat{m} (h_1 - h_2) + \hat{Q}_2 - \hat{W}_r^0 - \hat{Q}_{aus}$
 $\frac{1}{999}$
 $(h_1 - h_2)^{\text{masses}} = h_1(T = 343.14) - h_2(T - 373.14)$

Damptantell
$$x_1 = x_2$$
 $h_1 = h_{5} + x_1 (h_{9} - h_{5})$
 $h_1 = 304.649$
 $h_2 = h_{5} + x_2 (h_{9} - h_{5})$
 $h_2 = 430.82$

$$h_{g1} = 262.98$$
 $h_{f2} = 44.9.04$ $= \times 1 - \times 2$
 $h_{g1} = 262.68$ $h_{g2} = 26.76.1$ $m \rightarrow 2$

→ Sette 3

$$\frac{3}{5} w_{0}^{2} w_{0}^{2} h_{0}^{2} h_{0}^{2} h_{0}^{2} + \frac{1}{2} \frac{1}{2}$$

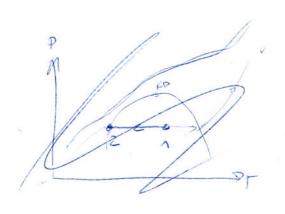
$$0 = m \left(h_{6} \cdot h_{5} \right) + \frac{1}{2} \frac{1}{6} h_{0}^{2} + m \left(\frac{w_{5}^{2} - w_{6}^{2}}{2} \right)$$

$$2 \left(h_{6} \cdot h_{5} \right) = w_{5}^{2} - w_{6}^{2} = w_{5}^{2} - 2 \left(h_{6} \cdot h_{5} \right)$$

$$\left(h_{6} \cdot h_{5} \right) = c_{p} \left(T_{6} - T_{5} \right) = 1.006 \left(3.19.4 - 931.9 \right) = -115.27$$

e) die Temperatur wurde die Matter bei der gleichen Temp wie der Kirklnochw im Gleichgewart sein. (+= Ti-6) Kalt Kam wegen des 2 H nicht We zu warn übertragge mee der.

3657



b) in durch thergiebitanz um gesant system

We Wik = Wher

WERT = Studp = m = WE PET

Mary Mu-ng-W

c) x1 direlet nach drossel

Tuerd - Ti-BIC =

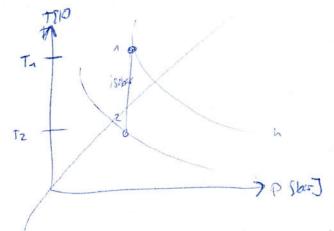
Tr=Ti-6K

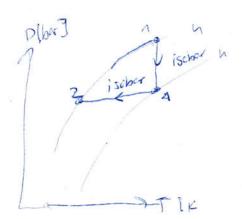
4-21 adiabet

$$X = \frac{s_A - s_i f}{s_{gr} - s_i f}$$

= 0 Th-Te = Sez







the greations B) mp nit

+ ie

P Austab A10 bei sat 2 vap set Pz=Pa 3 Vsupen. TAB ANS 8

8

4 lig sat 31.33

Energiebilanz um geschntsystem

$$\frac{T_6}{T_5} = \frac{P_6}{P_5} = \frac{N-1}{n}$$

$$= 76 = T_5 \cdot \left(\frac{P_6}{P_5}\right)^{\frac{K-1}{n}}$$

$$= 431.3 \cdot \left(\frac{0.137}{0.5}\right)^{\frac{0.4}{1.4}}$$

$$= 344.4 k-T_6$$

inges finder mit work 273, mik mx = 5.293

$$\hat{m}_{k} = \frac{q_{B}}{h_{1} - h_{3}} = \frac{1195}{12967} = 0.9215 \text{ kg/s}$$

$$\begin{cases} \hat{m}_{k} = \frac{q_{B}}{h_{1} - h_{3}} = \frac{1195}{12967} = 0.9215 \text{ kg/s} \end{cases}$$

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