(1)

a) Energiebilanz:

Seru, Saus aus tell b:

$$Ser2 = 0.3(1.3069 - 0.9549) + \frac{65}{395} - \frac{100}{295}$$

$$= -0.013 \text{ LL}$$

2506,5-418,94)

(1) d) weiter:

e)

$$Serz = (\frac{35.10^{9}}{40-20}) = Serz = 1400 \frac{1}{4} = \frac{QR112}{4}$$

Adiabat, reversibel => s=coust

$$\frac{T_6}{T_8} = \left(\frac{P_8}{P_5}\right)^{\frac{N-7}{N}}$$

Energiebilanz:

$$h_{5}(437,9,0,5bc) = \frac{h(305) \cdot h(300)}{305 \cdot 300}$$

$$h_{5}(437,9,0,5) = \frac{h(440) \cdot h(430)}{440 \cdot 430} (437,9 \cdot 430)$$

$$+ h(436)$$

$$+ h(436)$$

$$+ h(436)$$

$$+ h(436)$$

$$+ h(240)$$

$$+$$

2 ya (48 - 46) + ya (\(\frac{\alpha_5}{22}\) = ya \(\O_6^7\)

C)

yil
$$Q_{x,6} = y_{gg}((h_6 - h_3) - T_0(S_6 - S_7) + \frac{1}{2}w_6^2)$$

where $y_{gg}(h_4 - h_0 - T_0(S_6 - S_7) + \frac{1}{2}w_6^2)$

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d) exvert = To Sorz

Pg1 , mg

Perpettes gas: P.V. = MgRT,

Kröptegleidigewicht: APans + mug + mig = PiA 10,19

Paulo : 11 - 52 + 329 : Potis - 17 500 = Pg. T - Tour

=> Pg,1 = Pamb + 32.9,81 +0,1.4,81

= 1.105 + 32-9,81 - 2019,81

= 49/96/2004 109/2001 = 1,40094 bar

=> $mg = \frac{p_1 V_1}{RT_1}$ $coo R = \frac{8.374}{80.40^{-3}}$

1,400.105 8,314 . 773,15

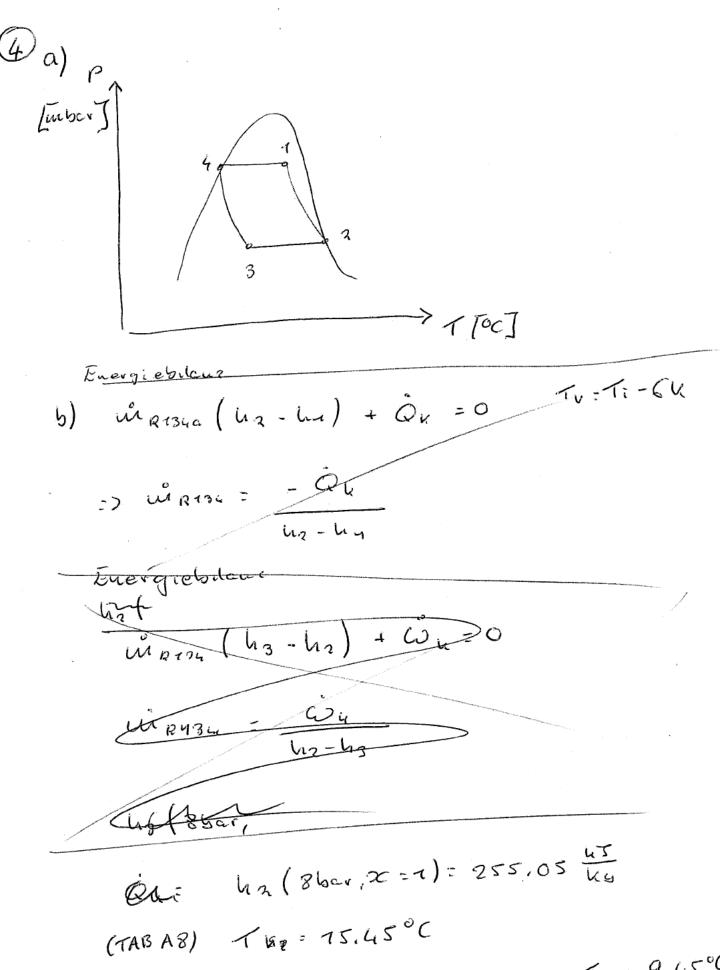
= 00997559 3,4219

b) Nichote sext-e

b) Igir, Pgir XEist = 0,6 TECO. = 0°C 19,2 = Teis, 2 Energiebilanz von Mg, Mg+ WEW, UEW = Mg2 Ug2 + WEW 1 UEW => mg {v(Tg1) + mxa Cu = mg2 Cv(Tg2) + Die Temperator Tgiz: Topis, 2 = 0°C | da >c>0 die Temperatur über o°c wire Zeis=0 => ta Pg2 Vg2 = mR Tg2 Pg2: mRTg7 Vg2 = 3.6.103. 8.374 - 273,15 Das Eist Wasser Ist Inhompressibel also 15t | Pgiz = Pgit : 7,5 bar

$$\Delta u = \frac{Q_{1,2}}{m} = \frac{1500}{0.1} = 150 \frac{2.7}{4g} = 0.150 \frac{4.5}{4g}$$

wat 10,150 th



BT von 2-71 = 60C => T1 = 9,45°C

warf

Energie bilanz

$$u = \frac{\omega_k}{h_2 - h_3}$$

(1) BOC VOU 2-77 = 6°C

Bei 8,8 bor , x=1 h, = 755,05, T= 15,45

6- T1 = 15,45°C

Pu = P1 = P(S3

d) En = 10201 = 10201 aus 0 = in(h2-h1)+Q4

= Qu = WRIZE (h1-h2)