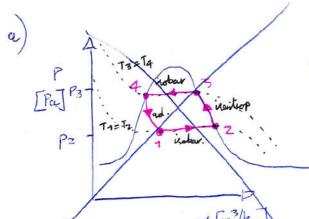
4) Gelietrockming



rorry, falsch geleren 1

b) mp, 134a

atationar: dt = 0 = mr [hz-h3] m - WK

Ti = 10K writer Sub. puntit bei 1mber =PTi=-10°C +>T1=-16°C

h 2 (x2=1, MAP T1 =-16°C) = 237.74 (TAB-A10)

, 52 = 3 = 0.9298 k5/kg k (TAB-A10)

h3 (\$153-52 / P3=8bat) = h(Tsat=31,33°C) + Wolld

0.4298-0.4374 (273.66-264.15) (TAB-A17)

h3=266,497kJ/kg

 $= \frac{24 \times 10^{16}}{257.74 - 266.497} = 0.$

=0.974g/s=3.5kg/h

c) ×1 nach Drorrel?

P1=P2, T2=-16°C, P4=Bbar, X4=0

ado = m(h4-h=) = 20 0.974.10 4 (93.42-266.497) = - 169 W hq(x=0,P4=8bar) = 93.42 k3/kg TAB-ATT ? wie aut Troder pr Rommen?

d) mil RK rechnen: 4 QK = m(hz-h1) he unbekannt negen c) teamsman valuations

1 32.1kg

(3) Persentes Gas

a) Pg,1 , mg = ?

persentes Gas: Mg=50kg/kml, cv=0.633kJ/3gK

D=0.1m = #AROBOEBUT/ V9/1=0.00314m3

V= D. A -PA=0.0514m2

 $P_{g,7} = \frac{m_g R T_1}{V_{g,7}}$ $R = \frac{8.314.70^3}{50} = 166.28 J/kg$

AP= F , F= 32.7kg'g

 $32.1 \text{kg} \cdot 9.81 \text{ Mtm/s}^2 = 1.1 \text{ bar}$

=Dmg = Pg/1 64 Vg1 = 0.002687 kg

W) x/eis/270, Tg, 2, Pg, 2=?

Volumen 1 and 7 identisch, das General befeindet out inmentrado

in Energhannigeteret in bleshop Was blest Temperatur Konstant, T2-Iq

Det Durch jet proportround zum Volumen konstant weil sich das

Einmones wicht guesdehnt water es ein genelstorrenes System int : Hpg:z=Pg:1

Tg,2 ist grown grower als Tg, weil das Volumen rinkt

Tg. 2 Kleiner neil Warmertoon, Pain weil ig Genetic.

C) Q12 : OVA12 = OVEW,12

algiz = mg (uz-u1) -1 wzwa uz-u1 = cv (7z-T1) = 8.633 (500-0.003°) = 316.5 kJ/kg

= 10000 0.85 KJ \$100m + Q12 =-0.85kJ

$$-p u_1 - u_2 = 9.5 \text{kJ/kg}$$

$$u_1 = u_{\text{to}}(0^{\circ}\text{C}) + 0.6 \left(u_{\text{to}}^{\text{ti}} - u_{\text{to}}\right) = -333.458 + 6.6 \left(-0.045 + 333.458\right) = -133.4102 \text{ kS/kg}$$

$$u_1 = u_{\text{to}}(0^{\circ}\text{C}) + 0.6 \left(u_{\text{to}}^{\text{ti}} - u_{\text{to}}\right) = -333.458 + 6.6 \left(-0.045 + 333.458\right) = -133.4102 \text{ kS/kg}$$

$$= 0.005 \times 10.000 \times 10.0000 \times 10.00000 \times 10.0000 \times 10.0$$

$$= D u_2 = -141.41 + 333.402$$

$$= D \times z^2 - \frac{-141.41 + 333.402}{-0.053 + 333.402} = 0.574$$



Slave Kneve nicht brachten?

b) W6, T6 Austirt

Schwadine ventrap o P6=P0=0. 191bour

-12 dt =0 = m[hg-hell + Whyma]

- 15-h6 = cp'9(T5-T6), T6=T5(P6) 1 well newtrop

-17 T6 = 437.9(0.191) +4; 328.07K

=10 h5-h6= 104.46kJ/kg

kes-ke6 = 2 M (W5-W6) - D W6 = - 208.92.10+ W5

mges, oex, atr = ex, utu, 6 - ex, utr, 0

=17 Dex, ntv = h6-h0-T0 (56-50) + ke6-ke0