Quin raus isobar Or meintheur haus] + Qaus - QR - With Daws = OR + mein haus-hein] Hein steus a) ein-raus isohar O=mein[hein-haus] & Qaus+QR-WE Qaus = QR temein (haus-hein) haus=419,04 kg 292,98 kg 292,98 kg Qaus = 4378 - 62,182 kl

C)

4)a) X2=1 X4=0 TK=Ti-6K Final Contractions productions productions Ti@5mbar Tsub@5mber = -100 P[mbar] 4: -5 mbar Ti = 9°C = 282,15 K i @9°C,5mbar tubær TJ 202 1 P[mber] triples: fest 5 mbar gas 7000

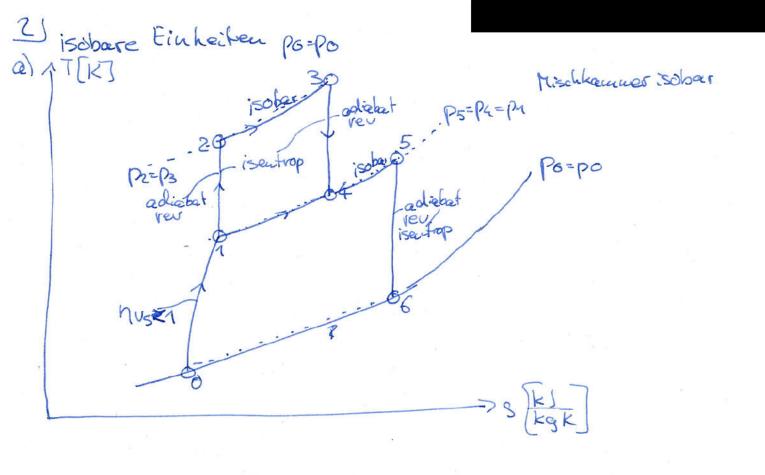
6) code

2-33 isentrop WK = 28W P3 = 8hair Xz=1 Pz=P1= 0= in[hz-hz+8+8]+8-WK augewarded X6=0 P4=8ber WK=m[hz-h3] -> mR 134e= WK hz=h4=93,42 kg A11 T1=92 5 $h_2 = \frac{25403 - 25180}{12 - 8} (9 - 8) + 2518 = 252,358 \frac{k}{k9}$ S3 = S2 = 019 132-99150 (9-8) +09150 = 091455 kgk h3= 273,66-264+5 0,9374-0,9065 (0,91455)-0,9066) +264,15 h3= 266605 K) miR134 = - | WKI = 1965 \$ 1,965 \$ C) h=-14 x4=0 p4=8her he= 66,18-60,73 (9-8)+60,73 hi=h4=93,42kg A11 hf=62,093kg X1=3? h== hf+x(hg-hf) -> h1-hf = x1=480,1647 hg@9°C A10 hg=254,03-251,80 (9-8)+257,80-252,34 kg

de)

d)

E EK = làzul = table.



b)
$$\omega_{6} = 20$$
 $\omega_{6} = 20$ $\omega_{6} = 20$

C) migra Dexstr=exstr6-exstro

Dex str=m[ha-he-To(sa-se) + Dke + De]

= ho-ho-To(so-so) + \frac{\omega^2}{2} \quad \text{Po=Po gag. West}

= cp.k(To-To)-To[cpln(To)-Rln(Po)] + \frac{\omega^2}{2} \quad \text{Dos - Wo} \, \text{gag. West}

\[
\text{Dexst=-26019,4 \, k)} \\
\text{Skg}

\[
\text{Dexst=-26019,4 \, k)} \\
\text{Skg}

\[
\text{Dexst=-Viol-exvect}
\]

 $0 = -\Delta \dot{e}str + \dot{e}xQ = \overline{U} + \dot{e}xverl$ $\dot{e}xverl = -\Delta \dot{e}str + \left(1 - \frac{To}{TB}\right)qB = 86q.58 \frac{kl}{kqs}$ $= -100 \frac{kl}{kq} + \left(1 - \frac{243.15k}{1289k}\right)$

a) pg1 mg Mg=50kg A= R2 TT = D2 TT Both = mgRtg Pg1 = MK.9 + MEW 9 H = 9 (mK+MEW) + Premb = 191 = 140094

Pg1 = 14 bar mg = P1 11

R=R = 8,314 kmolk = 0,16628 kg/k

Type = 50 kg

Type = 50 kg/kmolk = 0,16628 kg/k mg= 0,003422kg = 3,4229 b) pgz=pg1 weil noch immer selbes Gewicht auf Gas drückt geis= gth20 Pgz=14/200 To Top Touch dem ideaten Gras gesetz bleibt die Temperatur gleich wenn p-kaust & V-konst m-konst Igz =08 labour wird nicht großer We pay - RITZ-to () Q12 Gas isobar 1-72 O=M SE=m(Uz-le)=Qab-MV-WV Qab = mCv(Tz-Ti) = 0,00684) = 686 684m)

C) 1-72

$$C = \Delta E = m(u_2 - u_1) = Qab = bv$$
 $Qab = m(u_1 + u_2) = mcv(T_1 - T_2) = 1139,4$
 $gequert$

d)
$$\times e^{-1} \cdot 5 \cdot 2 = 1500 \cdot 5 \cdot 2$$

3(d)

PTEP PIEW PREW

UZ=-152,21kg

Uz=Uf1+xz(Ufe-Ufi)

$$u_2-u_{fl} = x_{2eis} = \frac{-157271 - -0,450}{-333,97 - -0,450} = 0,455 = x_{2eis}$$