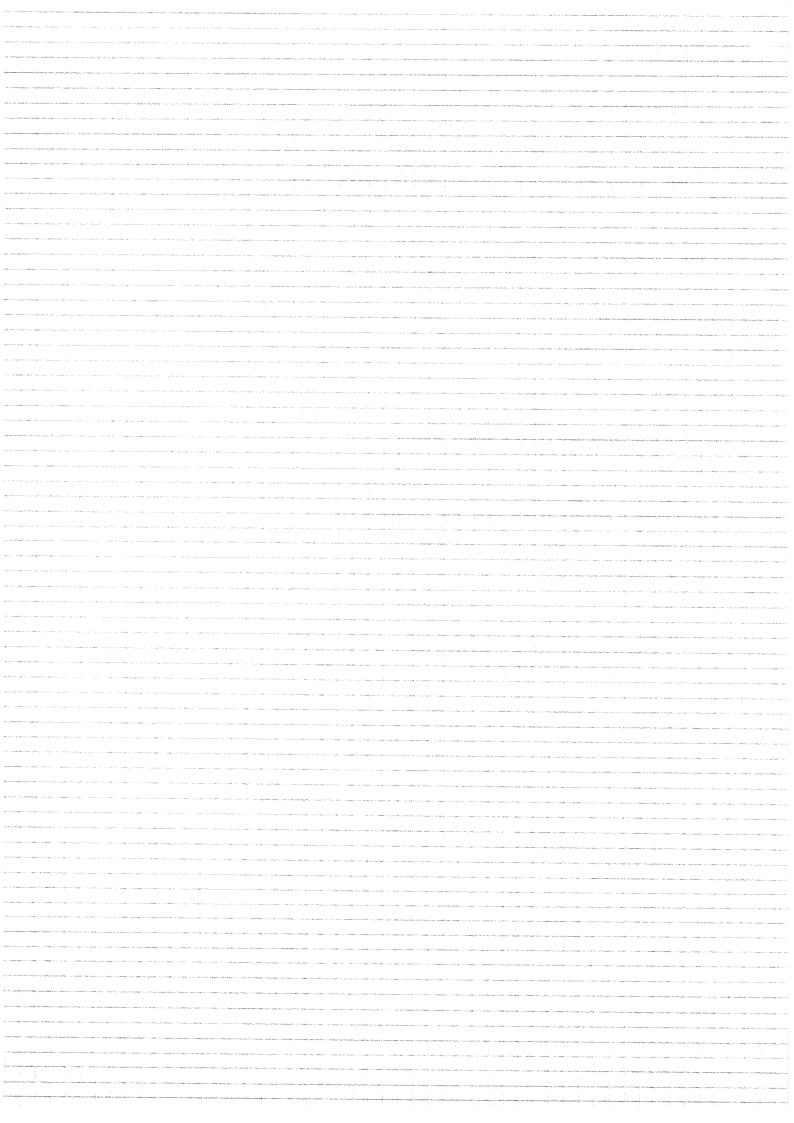
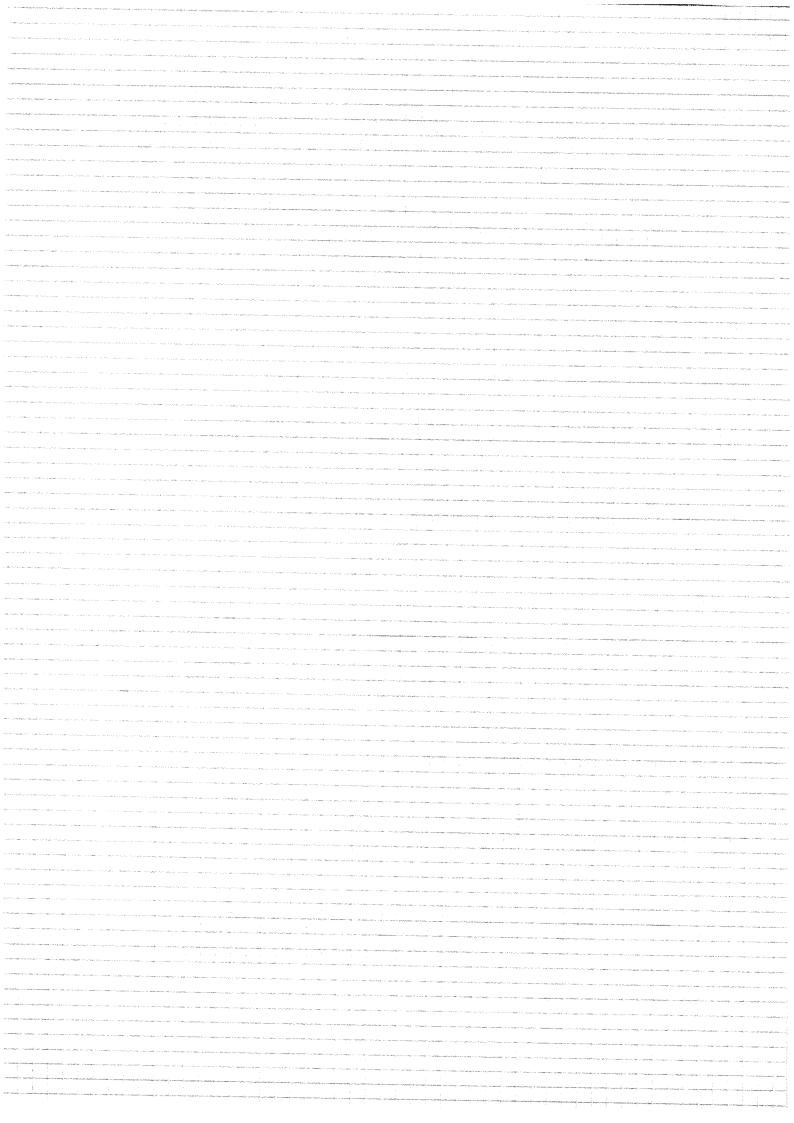
Autobel a) Stationary Pliessprozess mit m 0= in [b= ha] + Q > W Q=m[ha-he] Q MONTE - OR + Oas + Oein = 0 Dein = m[ha=he] = m/ $\dot{Q} = \dot{m} [h_0 - h_e] = \dot{m} \subset (\Delta T)$

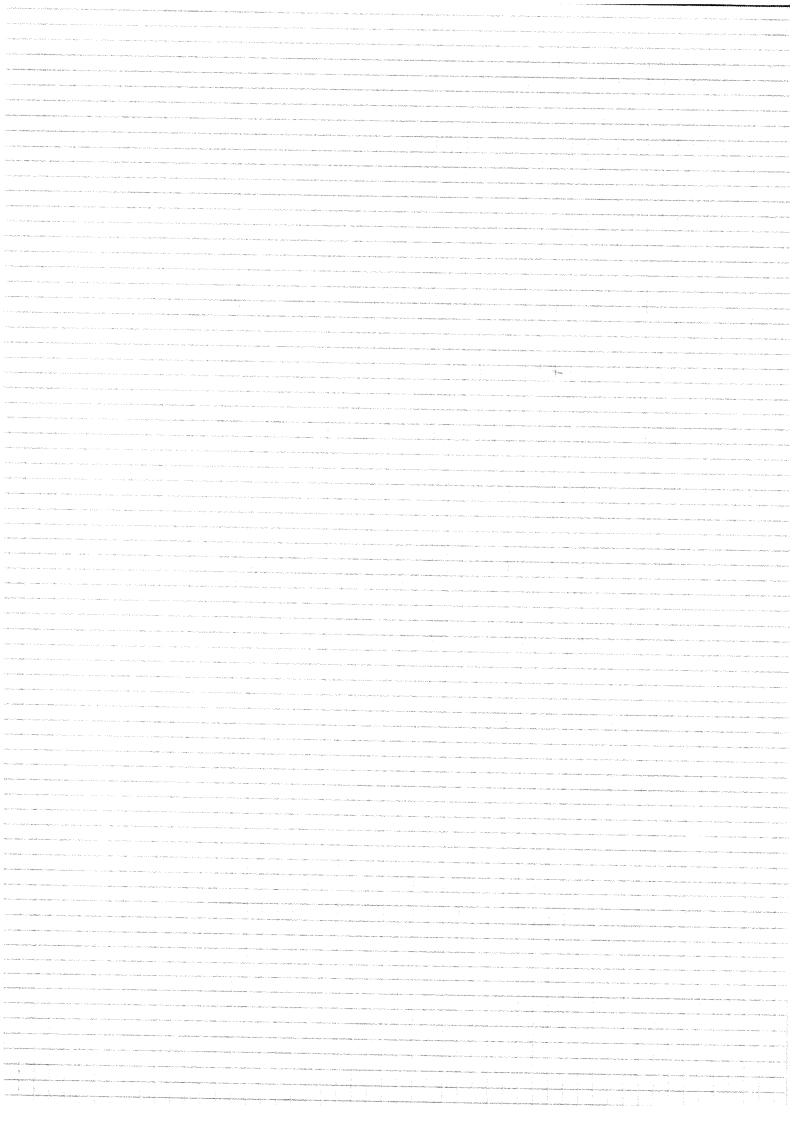


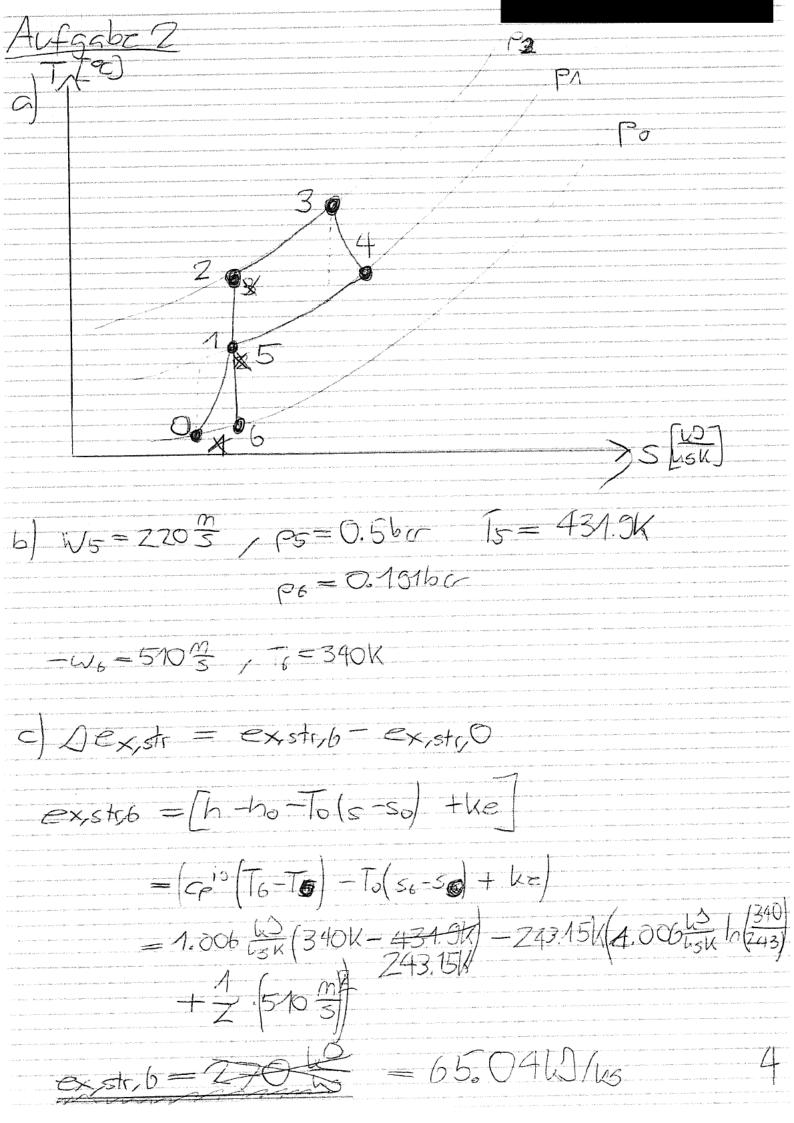


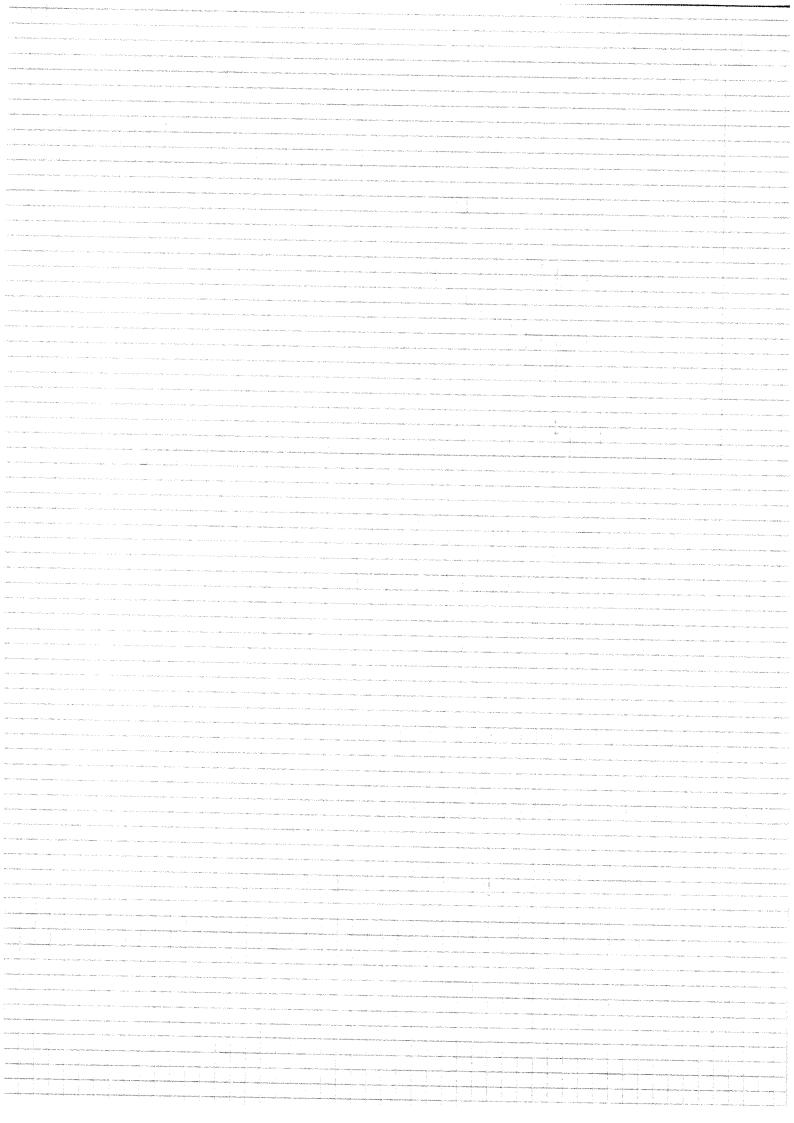
d Haboffers System AE=Ami[hi] +Q-XTO $Q = -\Delta m; [h]$ h==h=+x(h5-h) = 83.06 m m. 620°C hg=hg+ x(hg=hg) = $106 = 292.98\frac{10}{15} + 0005 \left[2626.8\frac{10}{13} - 252.98\frac{10}{13} \right]$ $h_9 = 304.640 \frac{100}{100}$ Amz = Q12 = 158.50kg = Amz e) ich verwende Am12 = 3600kg van Lsg-Vorschlag DS17 = m2 72-M51 m= 5755hs mz = 9355hg $DS_{17} = 7226.16 \frac{10}{17}$ $S_1 = 0.2966 \frac{69}{65 \text{ K}}$

5z=0.0540 W

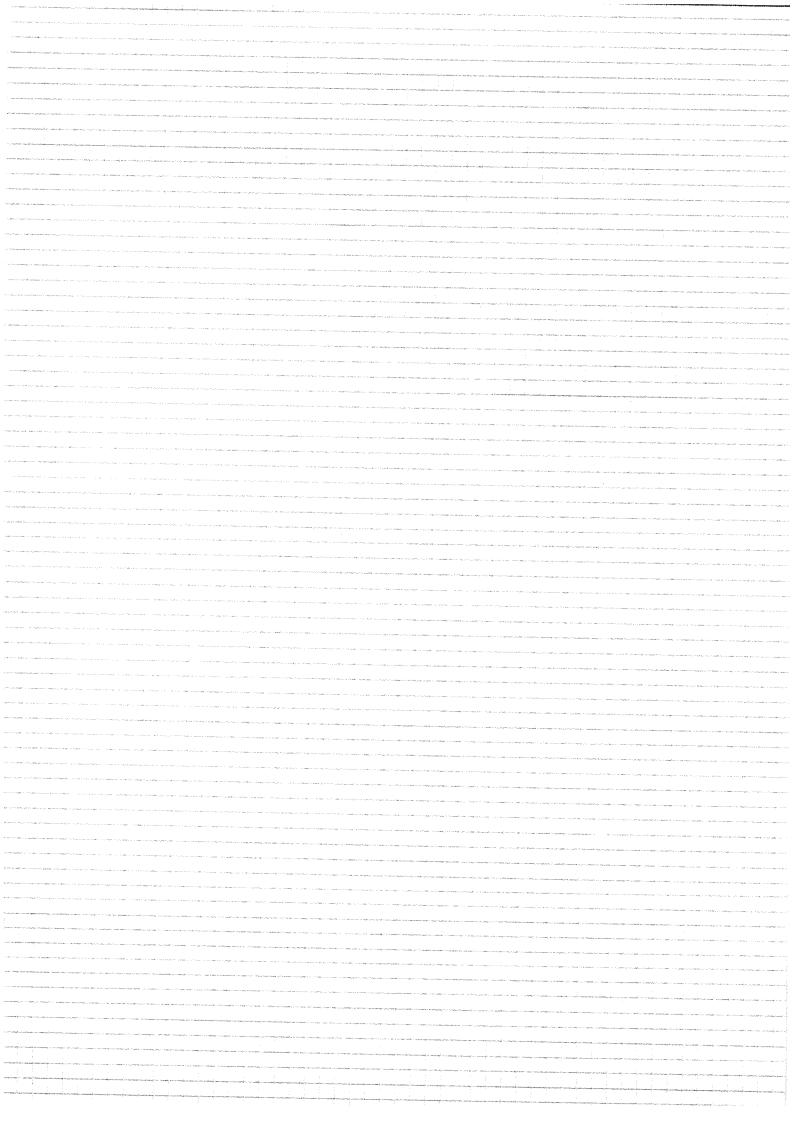
3





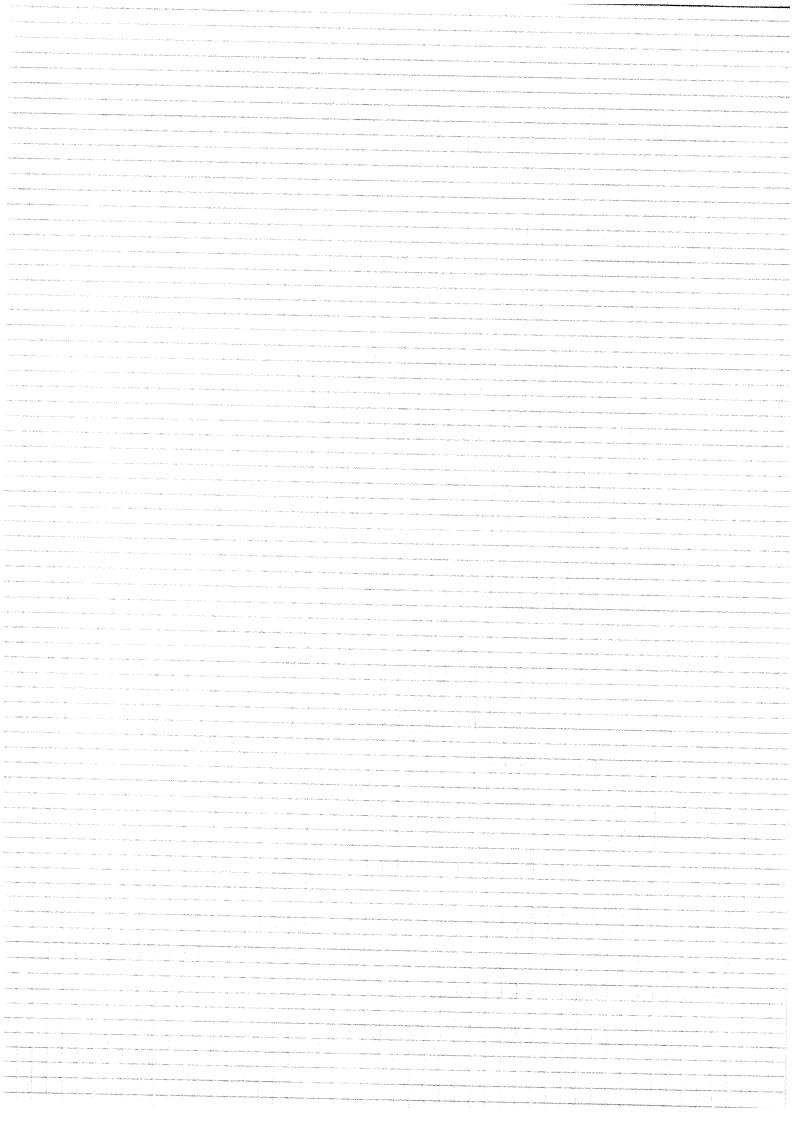


A2 c) Fortsetzung $ex,str,0 = \left[\text{Cp}^{i5} \left(\text{To} \right) - \text{To} \left(\text{So} \right) + \text{ke} \right]$ $= 1.006 \frac{\text{LD}}{\text{LgK}} \left(243.15\text{V} \right) - 2.43.15\text{V} \left(0 \right) + \frac{1}{2} \left[200 \text{m} \right]^2$ $ex,str,0 = MBMBB - 19,755 \frac{\text{LQ}}{\text{Lg}}$ $ex,str,0 = ex,ctr,0 = 85 \frac{\text{LQ}}{\text{Lg}}$ $ex,str,0 = 85 \frac{\text{LQ}}{\text{Lg}}$



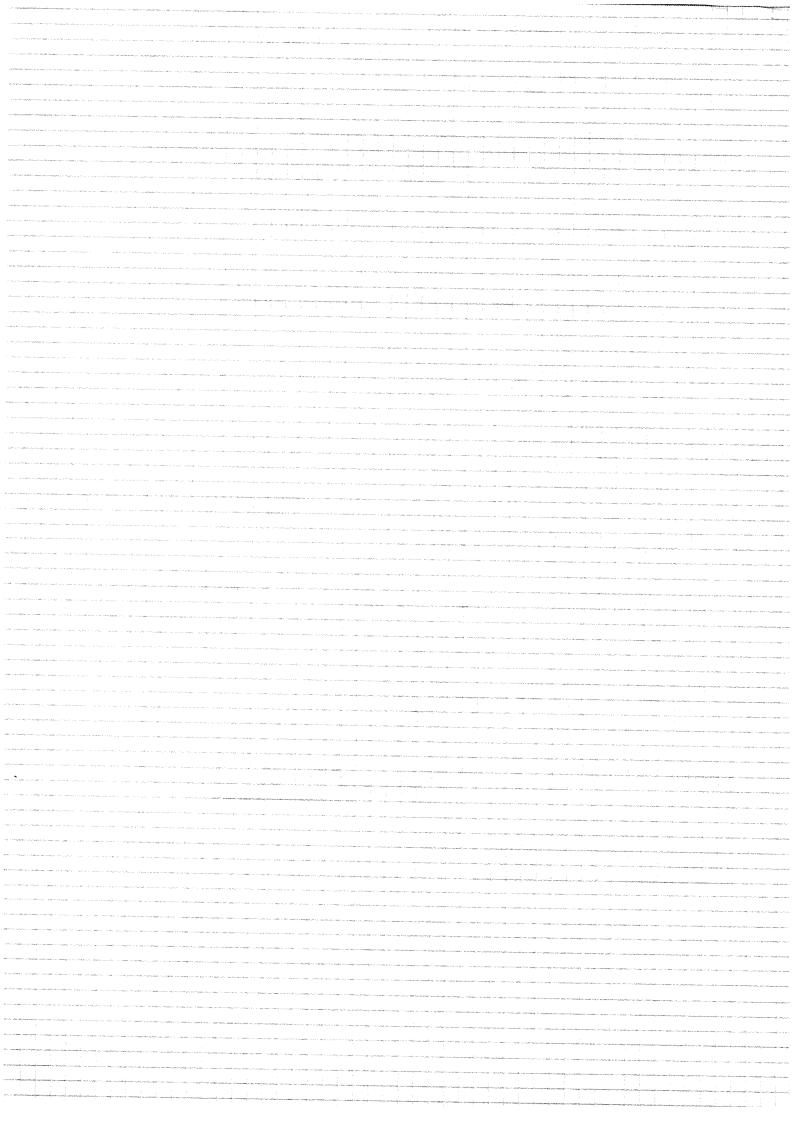
Aufgabe 3 a) Pan & mo $A = \left(\frac{D}{2}\right)^{\frac{2}{11}} = 7.85 \cdot 10^{-3} \text{ m}^2$ Lmug J Lmewg

Apgy =Pg1 A = mug + MEWg + Panto A $P911 = 9(\frac{Mx + MEU}{A}) + Parts$ $=981\frac{m}{32}\left(\frac{32kg+0.1kg}{7.85\cdot10^{-3}m^2}\right)+1bcc$ PO,1 = 1.4016c-PV = mRT → mg = P1 V1 P2 P1 V1 Mg Ty= 773.15K $m_9 = \frac{1.46c \cdot 3.14 \cdot 10^{-3} \, \text{m}^3 \cdot 50 \, \text{kg}}{8314 \, \text{kmol} \, \cdot 773.15 \, \text{kg}} = 0.0084 \, \text{kg}$ $m_0 = 3.429$ b) Pg, 2 = Pg, 1 Re cs drucht die Gleichung von Teilartgabe al ailt P9,7 = 1.401600 immer noch PO,1 A = MUS +MEW 9 TPANA Ig,z = TEW, = 0°C XEIS,2 >0, dh. dass die Temperatur des EW-Gemisches noch nicht gestiesen ist.



AB
C)
$$T_{9/1} = 500\% = 773.15\%$$
 $T = 500\%$
 $T_{9/2} = 0\% = 273.15\%$ $T = 500\%$
 $= \sqrt{2} = 0\% = 273.15\%$ $= \sqrt{40.16}$ $= \sqrt{2}$ $= \sqrt{40.16}$ $= \sqrt{$

+



Autoobe a) PEMBOR adiobat adiabat isobo Stationaro Alesprozess b) mersta O=m[bz-ha] +Q 273 TAB A-12 Saturated $h_3(8bc) = 264.15 \frac{1}{1.8}$ Saturated hz (331. 160) = 231.35 ks

