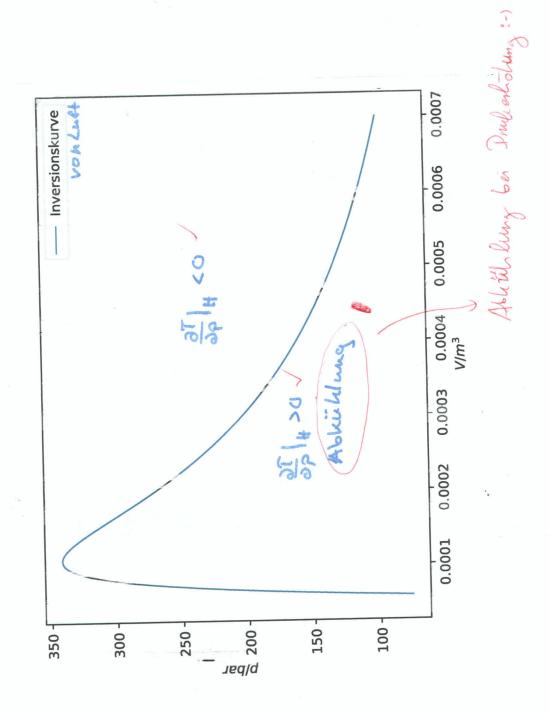


C)
$$\int_{T}^{2Q} = \int_{T}^{2} \frac{30n}{T} + \int_{T}^{2} \frac{50n}{T} + \int_{T$$

· Varme derch Reibengeverligte - T Ausdernung des Motor blockes de

TUS (4) Aufalbe Z $\frac{cl}{(p+d-vz)(v-bN)} = NkbT$ (=> P= N&bT - X NZ dS = 25 lut 25 du granenlose Integrale. $= \int S(T) = \int \frac{\partial S}{\partial T} dT = \int \frac{\partial V}{\partial T} dT = \frac{\partial V}$ $S(N) = \int_{0}^{25} \frac{dV}{dV} = \int_{0}^{27} \frac{dV}{dV} = \int_{0}^{27} \frac{N86}{(v-5)(1)} \frac{1}{4} \frac{1}{10} \frac{$ $= V S(T, V) = N26 \left(\frac{3}{2} \ln 11 + \ln 1 +$ f(T, V, V) = Constadiabatises = do = 0 = D du = - polu = rdCl= CudT+ (T = P)dV = - PdV = T G dT' + T = 0 = dS = 0 (=> CV - NA 6 OV (=> CV - TOT = 5N-V dV $= V \frac{CV}{NRb} \cdot ln(\frac{T}{To}) = ln(\frac{V_0 - 5NV}{V - 6NV}) + C$ $= V(\frac{T}{To}) = \frac{V_0 - 6NV}{V - 6NV} \cdot C$ = CV $= \sqrt{\frac{1}{10} \left| \frac{V-bN}{Vo-bN} \right|} = C = const$ = 1701 . | V-5N | = C V) chay



Rusgabe 3 4 3 a) U= Spol = PA (p dul beiden Seiten = const wird angenommen) (1) PV=n96T=P 1mol=P P & V=RT Das Gas mus right ideal b) Zufur von Anbeil PrVn auf der linken Seite, Abgabe der Arbeit Pr Luz duf der recken Seile LT U2 = U1 + Pivn - P2 & V2 = D U1 + Pr dVi = U2 + dV2 - D H= H2 = const C) H=U+pv = D SI-1 = d(pv+cx) = du+Vdp Jpdv du=Tels-pdv=FdH=TdS=pd+vdp 05(piT) = 351, de + 35 pdT => dH = T (= T | = T | = dT + T (= ph) dp + vdp 16 = - Settudp = 36 polt + 26 1; dp 226 - 326 - 35 / 3V P = D dH = (pdT+ (V-T = T)p) dp = 0 = V dp /4 - Cp (T 3V 1p - V)