Variabeln A := Q a ...

$$h_{e} = h_{f}(70^{\circ}) + \frac{292.38}{5} (A-2)$$

$$h_{a} = h_{f}(700^{\circ}) + \frac{h_{f}(700^{\circ}) - h_{f}(700^{\circ})}{419.04} = \frac{364.645}{419.04} (A-2)$$

b)
$$\overline{T}_{KF}$$

Entropic bilanz Stat. When a danck inderung adiabat = size atropo
 $0 = \sin(s_z - s_z) + \frac{\dot{Q}}{T} + \dot{s}_z drz$
 $\overline{T} = \frac{\dot{Q}}{\sin(s_z - s_z)}$

W

$$\dot{S}_{erz} = \dot{m} \left(s_n - s_c \right) m - \frac{\dot{a}}{T} = \dot{m} c \ln \left(\frac{Ta}{Te} \right) - \frac{\dot{a}}{T}$$

Entropicalianz non Wand

$$0 = \frac{1}{\sqrt{5}}, + \frac{1}{\sqrt{7}} + \frac{1}{\sqrt{5}} = \frac{1}{\sqrt{5}}$$

(1) e)
$$\Delta S = m_z S_z - m_z S_z = m_z (S_z - S_z) + \Delta m S_z$$

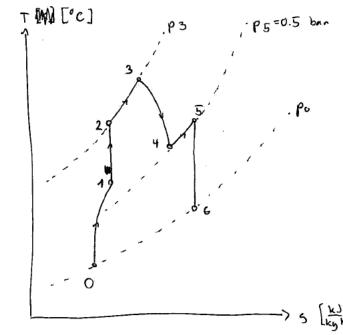
$$S_z = S_f (400^2) + x_0 (S_g (400^2) - 3f(400^2)) \qquad (A-7)$$

$$S_z = S_f (70^0)$$

$$S_z = 1.33714 = B$$

$$S_z = 0.9549$$

$$\Delta S = -4799.4 \frac{W}{M}K$$



$$\frac{T_0}{T_5} = \left(\frac{p_6}{p_5}\right)^{\frac{1}{12}}$$

$$T_6 = T_5 \left(\frac{p_6}{p_5}\right)^{\frac{n-1}{n}} - 328.1 K =: A$$

$$\Delta e_{x,str} = M h_{c} - h_{o} - T_{o} \left(s_{6} - s_{c} \right) + \frac{w_{o}^{2} - w_{o}^{2}}{2}$$

$$\Delta e_{x,str} = -\left(C_{p} \left(T_{6} - T_{o} \right) - T_{o} \left(c_{p} \ln \left(\frac{T_{6}}{T_{o}} \right) - R \ln \left(\frac{p_{o}^{2}}{p_{o}} \right) \right) + \frac{w_{o}^{2} - w_{o}^{2}}{2} \right)$$

$$= M 40034.6 \left(3.4624 + 94.628 \frac{kV}{kg} \right)$$

$$W_{f} = W \text{ such abdatise}$$

$$Vrev = \frac{R(T_{6}-T_{5})}{N-N} = 65.035 \frac{KW}{Kg}$$

elfent

Kraftegleichyemicht

$$R = \frac{R}{M} = 160.28 = \frac{4157}{25}$$

b) pg=pon = 1.40 bar, da der Prozess isober ist, weil sich das Genicht von EW oler der aussenderk nicht geendert het.

moculag-menchem Tz (mg cv-menc)

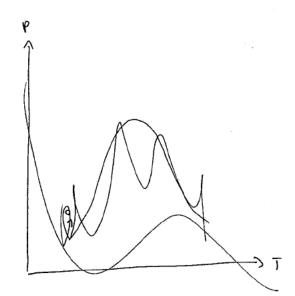
Rechard mit Tgz = 0.003°C c)

E-Bilanz Gas

rechnen mit \$ | Qn2 = 1.500) d)

Uz = 2/38/67 - 185.0928 =: D

A = pn [Pn]



Interpol bei 8 box Tab.
$$A-12$$

$$y_{1} = A1 \quad Sz \quad Sf \left(\frac{9ban}{9ban}\right)$$

$$S_{z} = S_{g} (4^{\circ}C) = 0.9169$$
Interpol bei 8 bor Tab. A-12
$$Y_{z} = A = S_{z} - S_{+} (\frac{9 \text{ bar}}{5 \text{ soft}})$$

$$S_{z} = S_{z} - S_{+} (\frac{9 \text{ bar}}{5 \text{ soft}}) = 0.334 \quad (A - 12)$$

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d)

W