Aufgabe 1

(2)

ch) stationar ohne ked pe $0 = m_{\text{dim}}(\text{hein} - \text{haos}) + Q_R + Q_{\text{accs}} \qquad \text{hein} \\ \text{hein} \qquad \text{hein} \\ \text{hein} \qquad \text{hein} \qquad \text{hein} \\ \text{Qaos} = m_{\text{oin}}(\text{haos} - \text{hein}) - Q_R \qquad \text{infs}(100^\circ) = 2576.1 \text{ kg} \\ \text{Qaos} = 2.63 \text{ kW} - 123.04 \text{ kW} \qquad \text{haos} \qquad \text$

Serz + m(se-sa) +
$$\frac{2}{5}$$
 Serz=0

Choos $\frac{m(se-sa)}{Gavs} = \frac{4}{7}$
 $\overline{T} = \frac{e(T_2-T_1)}{E(\ln(\frac{f_2}{T_1}))} = \frac{233.12K}{12K}$

Serz =
$$\frac{(7.3505 - 1.306) \frac{1}{100} k}{5}$$

 $5 aus = \frac{(7.3505 - 1.306) \frac{1}{100} k}{(2676.1 - 419.04) \frac{1}{100}}$
 $\frac{(2576.1 - 419.04) \frac{1}{100}}{(2676.5 - 252.58) \frac{1}{100}}$
 $\frac{(2576.5 - 252.58) \frac{1}{100}}{(2676.5 - 252.58) \frac{1}{100}}$
 $\frac{(2676.5 - 252.58) \frac{1}{100}}{(2676.5 - 252.58) \frac{1}{100}}$

d)
$$\Delta U = -Ga_{0S} + \delta m_{12} U$$

 $m_{12}e = \frac{Qa_{0S}}{U_{12}} + \frac{m(U_2 - U_2)}{U_{12}}$

$$U_{1} = U_{1} - \omega \times (U_{3} - U_{1}) \quad 100^{\circ} = 408.5 \frac{k^{3}}{k_{3}}$$

$$A - 2 = U_{1} = \frac{(2002) \times 33.50 \frac{k_{3}}{k_{3}}}{(2002) \times 33.50 \frac{k_{3}}{k_{3}}} \quad U_{12} = U_{1} + \times (U_{3} - U_{1}) = 23.33.33 \frac{k_{3}}{k_{3}}$$

$$A - 2 = \frac{\omega \times h_{1} - h_{1}}{-h_{1} + h_{2}} = 0.03$$

b)
$$\frac{T_6}{T_5} = \left(\frac{\rho_6}{\rho_5}\right)^{\frac{h-1}{h}}$$

$$T = T \cdot \left(\frac{\rho_6}{\rho_5}\right)^{\frac{h-1}{h}}$$

$$T_{6} = T_{5} \left(\frac{P_{6}}{P_{5}} \right)^{\frac{N-1}{N}}$$
 $T_{6} = 328.07 \text{ K}$

$$G=0 W=0$$

$$\frac{-W_{5}^{2}+W_{6}^{2}}{2}=h_{5}-h_{6}-W_{56}$$

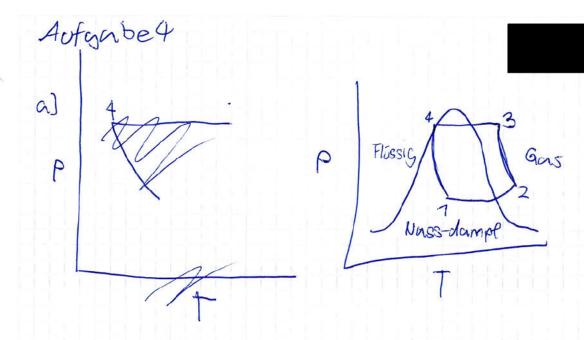
$$n=1.4$$

$$\lim_{n \to \infty} \frac{R(T_8 - T_8)}{1 - T_8}$$

$$lin = \frac{R(T_8 - T_5)}{1 - n}$$
= 7-1.0

= 74.6 kJ

$$R = cp(1 - \frac{1}{k}) = 0.2874 \frac{k}{k}$$



b)
$$84 S_2 = S_3$$

 $60 = in(n_2 - h_3) - iv_K$ $7i - p = 1mbar$

Aufgabe3

d) Fortsetzung

Aufgabe 3

$$pV = mRT$$
 $m_{51} = \frac{p_{10} u_{15}}{RT_{51}} = m_{15} = 3,49g$

$$R = \frac{R}{M_g} = 0.16628 \frac{kJ}{kg} \times$$
3. 14L = 0.003.14m³

$$\bar{l}_1 = 773.15 \times$$

b)
$$U_2 = U_1$$
 $p_{g2} = p_{g1}$
 $p_{g1} = p_{g2}$
 $p_{g2} = p_{g2}$
 $p_{g1} = p_{g2}$

Prock von oben bleibt gleich

a)
$$\Delta \theta_{5} = 100$$
 Ω_{12}
 $\Omega_{12} = 100$ Ω_{12

$$T_{29} = 0.003\% = 273.753 \times T_{79} = 773.15 \times T_{79}$$

$$01 = Q_{12}$$

$$01 = Q_{12}$$

$$01 = Q_{12}$$

$$0 = -200.14 \frac{k}{kg}$$

$$0 = 01$$

$$02 = 01 = -215.14$$

Q12=1500

Autombe #2
c)
$$e_x str_6 = (h_8 - h_0 - T_0(s - s_0) + \frac{w^2}{z^6})$$

 $e_x str_0 = (h_6 - h_0 - T_0(s - s_0) + \frac{w^2}{z})$
 $\Delta e_x st_1 = (h_6 - h_0 + \frac{w^2}{2} + \frac{w^2}{z})$ $w_0 = 200 \frac{m}{s}$
 $= c_p(T_6 - T_0) + \frac{w^2}{z^2} + \frac{v_0^2}{z^2}$ $w_6 = 570 \frac{m}{s}$
 $= c_p(T_6 - T_0) + \frac{w^2}{z^2} + \frac{v_0^2}{z^2}$ $w_6 = 570 \frac{m}{s}$
 $= 744 + 146 + 110,04 + 100$

$$e_{x} = e_{x} = e_{x$$