Autgabe 1:

$$\overline{T} = \frac{\int_{e}^{a} T ds}{sa - se} = \frac{GF(Ta - Te)}{e^{iF}(ln(\frac{Ta}{Te}))} = 293, 12 K$$

$$0 = m_{ein} (S_e - S_a) + \frac{\dot{Q}_{aus}}{\bar{T}_{KF}} + \frac{\dot{Q}_R}{\bar{T}_R} + S_{erz}$$

$$S_{erz} = m_{ein} (S_a - S_e) + \frac{\dot{Q}_{aus}}{\bar{T}_{KF}} + \frac{\dot{Q}_R}{\bar{T}_R}$$

$$S_{erz} = -\frac{\dot{Q}_{aus}}{\bar{T}_{AF}} = 0,212 \frac{kJ}{kg} K$$

$$m_2 u_2 - m_1 u_1 = o m_{12} h_{ein}$$

Tabelle A-2 tür
$$u_{11}$$
, u_{19} , u_{1} (70°C), hein

 $u_{11} = 418,94 \frac{k3}{kg} u_{19} = 2506, 4 \frac{k3}{kg}$
 $u_{12} = 418,94 \frac{k3}{kg} u_{19} = 2506, 4 \frac{k3}{kg}$
 $u_{11} = u_{11} + x_{0} (u_{19} - u_{11}) = 429,38 \frac{k3}{kg}$
 $u_{21} = u_{11} (70°C) = 232.95$
 $hein = 83,96 \frac{k3}{kg}$
 $m_{22} = 2m_{12} + m_{13}$

om12 u2 + m1(u2 - u1) = om12 hein
$$\frac{m_1(u_2 - u_1)}{hein - u_2} = om12$$

$$om12 = 3756, 9 kg$$

Aufgabe 1:

e)

Tabelle A-2:

Aufgabe 3

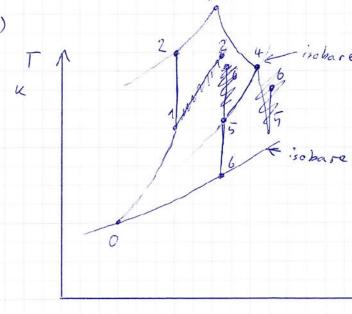
()
$$T_{G_1} = 500^{\circ} (T_2 = 0,003^{\circ} ($$

$$Q_{k} = 0.85 \text{ kJ}$$

$$R = \frac{R}{M} = 166,28 \frac{3}{4g} k$$

Autgabe 2:

3 Kisobare



$$\frac{\lambda}{kg}$$
 K

60/14

$$\frac{T_6}{\Gamma_5} = \left(\frac{P_6}{P_5}\right)^{\frac{7.4-1}{7.4}}$$

Autgabe 4: Eis Staster. Els til 2 Tripel punkt Wasser Pamp Wasser Pamp f 6) Ti = -10°C The stoke Tv = -16K