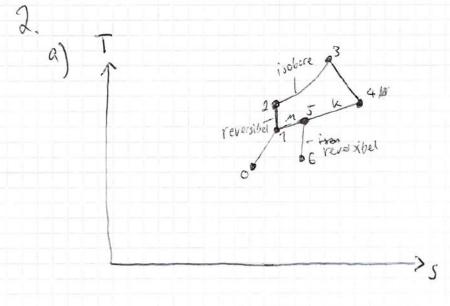
200) 1. a) Qay: => Ques Main (hour heig) = Qn - Ques has = hg (100°c) = \$12.50 kg/kg (from TA-2) hein = hg (70°c) = 212.50 kg/kg =) Qay = Qn+ Mein (hein - has) = 100 Ker + 0.3ky, (252.52 - 415.04) by/kg = 62. | DKW 6) Tue: Prf = const. = Trus = Trus = 238.15 kt 188.15 kt Tue = 253.15h () Jest: Serz = - Qua AD = - 62.15ku = -212W/K AGUEC (My+AM12). U2 - Mz. U2 = AM12. h(200) - Q11,12 U2=252-55+0.005. (2465.6-252.55)=303. PS VJ/4 (TA-2) Un=411.54+0.805-(2506.5-412.54)=429.38444 ha (20°)= 83.5(45/0,

 $4m(k_1-k_1) = n_1 U_1 - Qn - m_2 U_1$ $4m(k_1-k_1) = n_1 U_1 - Qn - m_2 U_2 = \frac{5755 k_1 (425.3) - 303.33) v_3 v_3}{(5.3.33 - 85.36) k_3 v_3} = \frac{57000 k_3}{(5.3.33 - 85.36) k_3 v_3}$ $4m_{12} = \frac{3127 k_5}{4m_{12}} = \frac{3127 k_$

Make + Ambe - make = Amb - On



reversibel:
$$S_s = S_c$$

$$= 0 = C_p \cdot \ln\left(\frac{T_s}{T_s}\right) - \frac{R}{M_L} \cdot \ln\left(\frac{P_o}{P_s}\right)$$

=)
$$\ln(AT) = \frac{1}{c_{1} \cdot l_{1}} \cdot \ln(\frac{\rho_{0}}{\rho_{s}})|_{=}) = \frac{1}{1_{6}} = \frac{1}{1_{5}} \cdot \exp(\frac{11}{c_{7} \cdot l_{1}} \cdot \ln(\frac{\rho_{0}}{\rho_{s}}))$$

$$T_{6} = 431.5 \cdot \ln(\frac{8.5147/m.lk}{1.006 \cdot l_{7} \cdot l_{1}} \cdot \ln(\frac{0.1516u}{0.56u}))$$

 $\frac{328.2k}{\text{Temper Kathers}} = \frac{328.2k}{10} \cdot \frac{328.2k}{10} = \frac{31.9}{10} \cdot \frac{(441.61 - 431.43) = 433.36 w_{1/4}}{10} \cdot \frac{1.9}{10} \cdot \frac{(441.61 - 431.43) = 433.36 w_{1/4}}{10} \cdot \frac{1.9}{10} \cdot \frac{328.2k}{10} = \frac{328.73 w_{2}}{10} \cdot \frac{328.73 w_{2}}{10} = \frac{328.73 w_$

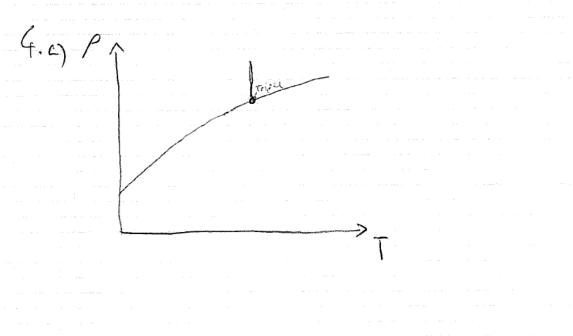
=)
$$\dot{m}$$
 ($h_5 + W_{5/4}^2$) = \dot{m} ($h_6 + W_{6/4}^2$)

=) $W_6 - 2\sqrt{2 \cdot (h_5 + \frac{W_5^2}{2} - h_6)} = \sqrt{2 \cdot (453.51 w_{3/45} + \frac{220^2 m_5}{2} - 323.55 w_{5/45})}$

= $507.9 m_5$

3.
$$P_{ST}$$
, P_{SS} , $P_$

=) X2 = 0.6 Mge + 0.4 Mge - Mg



4. A

of free to 120

CA-XX

b) 0=ma (h2-h3)-Wk | T2=Ti=6k, Ti=Ts+10k

MAR TS (Stor Tober = -25° +5 = -20°C

ha (-20°C, X2=7) = 24.26 bo/ks (TA-10)

hs = 93 - 42 KJ/m (TA-11)

 $\ddot{r}_{1} = \frac{\dot{W}_{h}}{h_{2} - h_{3}}$