7.)a)
$$0 = m(h_e - h_a) + G_R - G_{aus}$$
 $h_e = 292.98 \frac{k}{k_9}$ $7AB A-2$
 $h_a = 419.04 \frac{k}{k_9}$ $7AB A-2$
 $G_{aus} = m(h_e - h_a) + G_R = 62.18 \frac{k}{k_9}$
 $F = \frac{S_a - S_e}{S_a - S_e}$ $\frac{G_{aus}}{S_a - S_e}$ $\frac{$

C)
$$C = m(Sw - sw) + \frac{Quus}{T} + Serz$$
 $C \neq m(he - ha) + \frac{Quus}{T} + Serz$
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 $C \neq$

o) $m_2u_2 - m_1u_1 = Dm_{12}h_2 + 35MJ - 35MJ$ $u_1 = k_5 \cdot 2506.5 \cdot (n_1 - k_1) \cdot 478.04 \quad 748.4 - 2$ $u_2 = 252.05 \frac{k_1}{k_2} \quad 748.4 - 2$ $u_1 = 5755 k_2$ $u_2 = m_1 + Dm_{12}$ $u_2 = 83.96 \frac{k_2}{k_2} \quad 748.4 - 2$ $u_{11} + Dm_{12} u_2 - m_1u_1 = Dm_{12}h_{12}$ $u_{12} + Dm_{12} u_2 - m_1u_1 = Dm_{12}h_{12}$

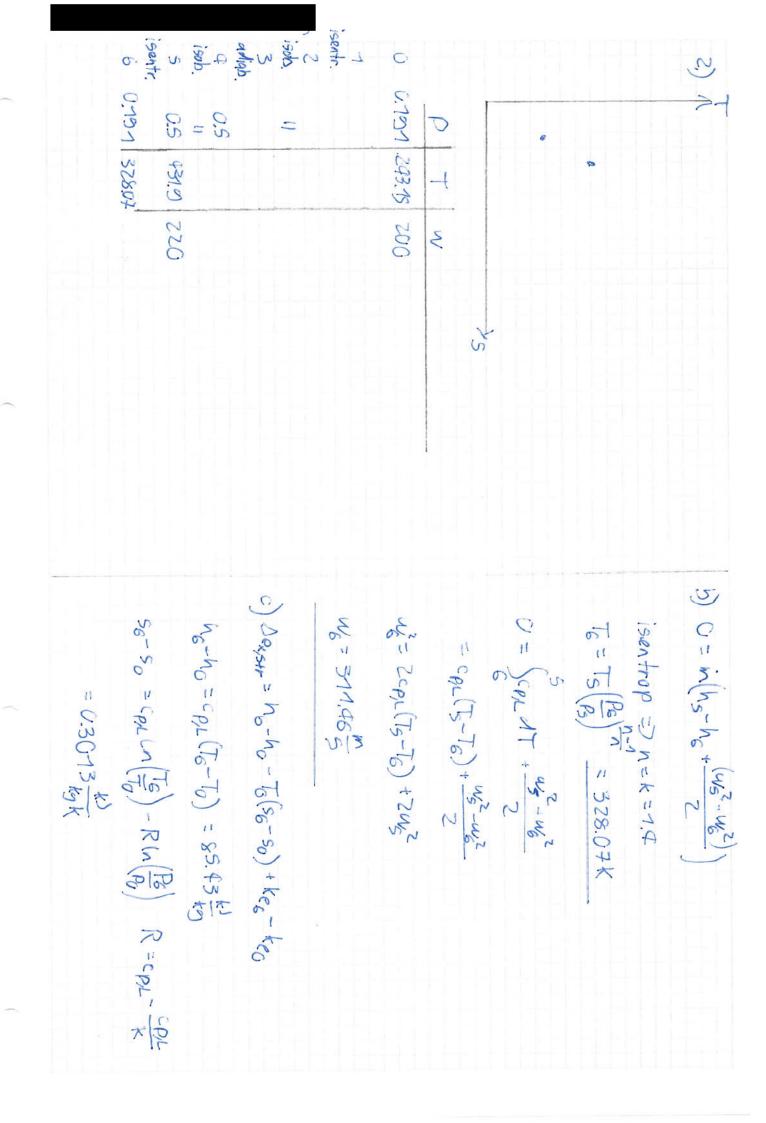
d) myorz + Dmyzuz - myon = Dmyzhz Dmyz(012-hyz) = myon-myoz Dmyz = 3756.9 kg

e) 15/2= M252- M757

57 = x0 7.3549 = (1-x0). 1,3069 748 4-2 = 1.33719 W

Sz = 0.9549

155m - 25. (25m/+hm) = 255.



2)c) Dexystr = 16-16-16-50) + 7 42 - 242 = 40.673 kg = 40.673 kg Serz = 15(56-56) Exwert = 15(56-56) Exwert = 15(56-56) Exwert = 15(56-56) Exwert = 15(56-56)

3,9) $P_{31} = \frac{m_3}{4}P_0 A = \frac{P_0^2}{27} = 7.40 \text{ bar}$ $P_{31} = 140.74P_0 = 7.40 \text{ bar}$ $R = \frac{8.374}{M_3} = 0.16628 \frac{40}{494}$ $P_{31} = n_3 R_{131} = 0.16628 \frac{40}{494}$ $P_{31} = n_3 R_{131} = 7 m_3 = 3.9.19.10^3 kg$ $P_{31} = 0.633.n_3 - 7 = 1.673 k$ $V_{31} = (8.533.78) + (7-4).(-0.045) n_{11} t_{35} 1$ $V_{411} = (8.533.78) + (7-4).(-0.045) n_{11} t_{35} 1$ $V_{421} = \frac{1.233.48}{2} + (7-4).(-0.045) n_{11} t_{35} 1$

