Exercise 7-1 Saturday, 9 May 2020 L= 3.341.105 / 1-1 p=1 atm $T=0^{\circ}(=273,15)$ P=g/7 legm⁻³
lice Water = 999. Ohgm-3 n = 1 kmgl=1000 mgl Mare charge to isothermal + isolorie

reversible: dW = PdVMw = 2.1,000 + 16,00 = 10,016 ympl-1 $M = M_w n = 18,016 \text{ My}$ $V_{ine} = \frac{m}{\rho_{ine}} = 0,0196 \text{ m}$ Vwater = m = 0,0 dom³ $W = \int P dV = P dV = 1,01 \times 10^5 P_a \times (0,0196-0,0180) = 164,37$... \times \left(0.018-0.0196 \right) = -164,97 -169 7 Ji if asky 18 fg fmol-1 $dQ = lm = lM_{u}n = 3.34d. 10^{5} \cdot ld, 0.6 \cdot l = 6,03.10^{6}$ dU = dQ - dW = 6,03.10641649 = 6,032.1064 $\frac{1}{\sqrt{2}} = 745$ $dS = \frac{dQ}{T} = \frac{1}{T} dQ$ $S = \frac{1}{T} \int d\theta = \frac{1}{273,15} \cdot 6,032 \cdot 6 = 2,208 \cdot 104 \text{ yr}^{-1}$