Transformation B1: on refraid the sour systems B

de
$$T_2$$
 (=50°C) a T_3 (= y inconn)

 $Q_1^B = \int \delta Q$ or $\delta Q = m_2 C_0 dT$

=> $Q_1^B = \int_{T_2}^{M_2} C_0 dT = \int_{T_2}^{M_2} C_0 dT$

=> $Q_1^B = \int_{T_2}^{M_2} C_0 dT = \int_{T_2}^{M_2} C_0 dT$

Transformation B1: on refraidst l'earn liquid (m_1)

de $T_3 = y$ a' $T = x$.

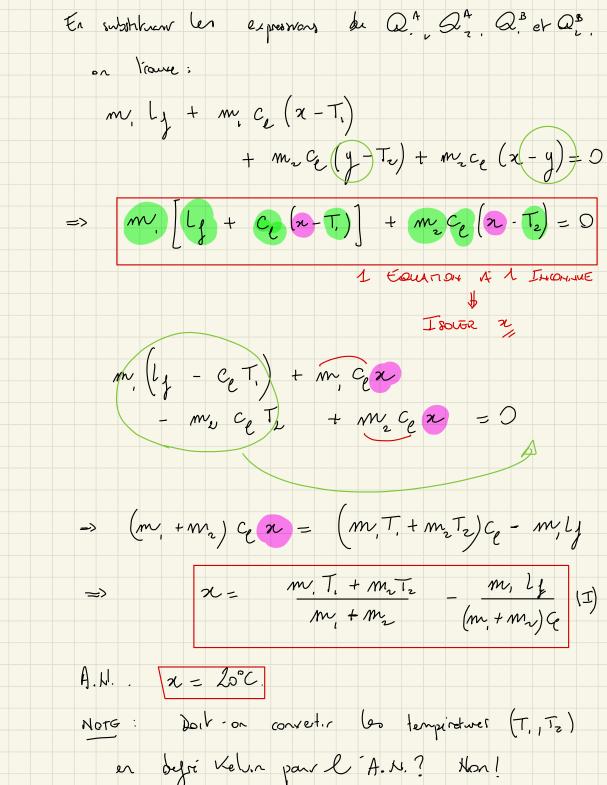
 $Q_2^B = \int_0^x dQ$ order $SQ = m_2 C_0 dT$

=> $Q_2^B = \int_0^x m_2 C_0 dT = \int_0^x m_2 C_0 dT$

=> $Q_2^B = \int_0^x m_2 C_0 dT = \int_0^x m_2 C_0 dT$

Deux inconses: $x \in Y$ (don't one variation of specialize, y)

Tous be exchanged onto the extra be given of lequide $T_3^B = 0$.



0. (°C) Pasquoi? T: (K) and i=1,2 $T_{a} = \theta_{1} + 273,15$ $z = m_1(0, +273, 15) + m_2(0, +273, 15)$ en K

en K - m. Lp (m. +m.) Ce $x = \frac{m}{m}, \frac{\partial}{\partial t} + \frac{m}{m} \frac{\partial}{\partial t} + \frac{m}{m} \frac{\partial}{\partial t} = \frac{1}{2} \frac{15}{15}$ m, ly (m, + m z) Ce $\theta = \varkappa - 273.15 = m.\theta. + m.\theta_2 = m.Cy$ m. + mr (m, + mz) Ce

EXERCICE 5 ETAT INTIAL GTAT FINAL M=500g | | mg SOLIDE | | Liquide T=-10°C | | T2 = 20°C m, + m2 2 SOLIDE Lauros Supposors que m, < m2. On a donc besoin de (1) Réchauffer m, de T. a To Q_A = (chdeur sersible: C_s on C_e?) (2) Le proidir me de Te à To (3) Gelv $m_1 - m_1 + m_2 = m_2 - m_1$ oh liquik $Q_C = \left(\text{cludew letete} : + l_p \text{ on } -l_p! \right)$ (QA + QB + QL = 0 / Control Pair ma