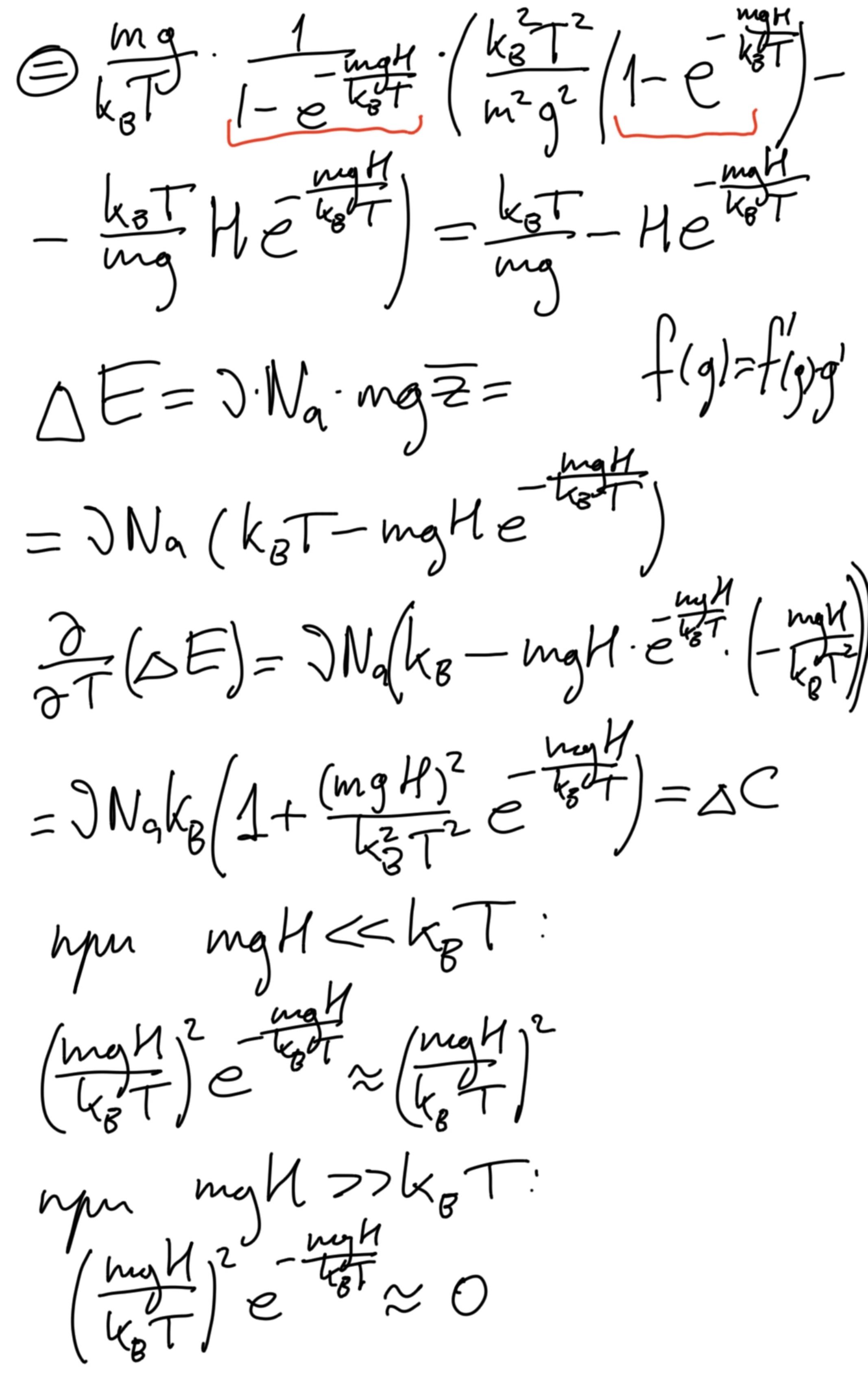
Cyanuson R. H. tonaunee zaganne NI marginario J= 1 mans, M, g E= 2m +mgz 0 - 1:5:5:5 $W(p, z) = A \cdot e^{\frac{E}{k_B T}}$ (painjegevenie) $W(p,z) = A \cdot e^{-\frac{p^2}{2mk_BT}} \cdot e^{-\frac{mage}{k_BT}}$ $W_{2}(z) = \int d^{3}p \, dx \, dy \cdot W(p, z) = A \cdot e^{\frac{\pi nq^{2}}{k_{s}T}}$ $H = A \left(-\frac{\pi r}{m_{s}}\right) \cdot e^{2} \, dz = A \cdot e^{\frac{\pi r}{k_{s}T}}$ $= A \left(-\frac{\pi r}{m_{s}}\right) \cdot e^{2} \, dz = A \cdot e^{\frac{\pi r}{k_{s}T}}$ $= A \left(-\frac{\pi r}{m_{s}}\right) \cdot e^{2} \, dz = A \cdot e^{\frac{\pi r}{k_{s}T}}$ $= A \left(-\frac{\pi r}{m_{s}}\right) \cdot e^{2} \, dz = A \cdot e^{\frac{\pi r}{k_{s}T}}$ $= A \left(-\frac{\pi r}{m_{s}}\right) \cdot e^{2} \, dz = A \cdot e^{\frac{\pi r}{k_{s}T}}$ $= A \left(-\frac{\pi r}{m_{s}}\right) \cdot e^{2} \, dz = A \cdot e^{\frac{\pi r}{k_{s}T}}$ $= A \left(-\frac{\pi r}{m_{s}}\right) \cdot e^{2} \, dz = A \cdot e^{\frac{\pi r}{k_{s}T}}$ $= A \left(-\frac{\pi r}{m_{s}}\right) \cdot e^{2} \, dz = A \cdot e^{\frac{\pi r}{k_{s}T}}$ $= A \left(-\frac{\pi r}{m_{s}}\right) \cdot e^{2} \, dz = A \cdot e^{\frac{\pi r}{k_{s}T}}$ $= A \left(-\frac{\pi r}{m_{s}}\right) \cdot e^{2} \, dz = A \cdot e^{\frac{\pi r}{k_{s}T}}$ $= A \left(-\frac{\pi r}{m_{s}}\right) \cdot e^{2} \, dz = A \cdot e^{\frac{\pi r}{k_{s}T}}$ $= A \left(-\frac{\pi r}{m_{s}}\right) \cdot e^{2} \, dz = A \cdot e^{\frac{\pi r}{k_{s}T}}$ $= A \left(-\frac{\pi r}{m_{s}}\right) \cdot e^{2} \, dz = A \cdot e^{\frac{\pi r}{k_{s}T}}$ $= A \left(-\frac{\pi r}{m_{s}}\right) \cdot e^{2} \, dz = A \cdot e^{\frac{\pi r}{k_{s}T}}$ $= A \left(-\frac{\pi r}{m_{s}}\right) \cdot e^{2} \, dz = A \cdot e^{\frac{\pi r}{k_{s}T}}$ $= A \left(-\frac{\pi r}{m_{s}}\right) \cdot e^{2} \, dz = A \cdot e^{\frac{\pi r}{k_{s}T}}$ $= A \left(-\frac{\pi r}{m_{s}}\right) \cdot e^{2} \, dz = A \cdot e^{\frac{\pi r}{k_{s}T}}$ $= A \left(-\frac{\pi r}{m_{s}}\right) \cdot e^{2} \, dz = A \cdot e^{\frac{\pi r}{k_{s}T}}$ $= A \left(-\frac{\pi r}{m_{s}}\right) \cdot e^{2} \, dz = A \cdot e^{\frac{\pi r}{k_{s}T}}$ $= A \left(-\frac{\pi r}{m_{s}}\right) \cdot e^{2} \, dz = A \cdot e^{\frac{\pi r}{k_{s}T}}$ $= A \left(-\frac{\pi r}{m_{s}}\right) \cdot e^{2} \, dz = A \cdot e^{\frac{\pi r}{k_{s}T}}$ $= A \left(-\frac{\pi r}{m_{s}}\right) \cdot e^{2} \, dz = A \cdot e^{\frac{\pi r}{k_{s}T}}$ $= A \left(-\frac{\pi r}{m_{s}}\right) \cdot e^{2} \, dz = A \cdot e^{\frac{\pi r}{k_{s}T}}$ $= A \left(-\frac{\pi r}{m_{s}}\right) \cdot e^{2} \, dz = A \cdot e^{\frac{\pi r}{k_{s}T}}$ $= A \left(-\frac{\pi r}{m_{s}}\right) \cdot e^{2} \, dz = A \cdot e^{\frac{\pi r}{k_{s}T}}$ $= A \left(-\frac{\pi r}{m_{s}}\right) \cdot e^{2} \, dz = A \cdot e^{\frac{\pi r}{k_{s}T}}$ $= A \left(-\frac{\pi r}{m_{s}}\right) \cdot e^{2} \, dz = A \cdot e^{\frac{\pi r}{k_{s}T}}$ $= A \left(-\frac{\pi r}{m_{s}}\right) \cdot e^{2} \, dz = A \cdot e^{\frac{\pi r}{k_{s}T}}$ $= A \left(-\frac{\pi r}{m_{s}}\right) \cdot e^{2} \, dz = A \cdot e^{\frac{\pi r}{k_{s}T}}$ $= A \left(-\frac{\pi r}{m_{s}}\right) \cdot e^{2} \, dz = A \cdot e^{\frac{\pi r}{k_{s}T}}$ $= A \left(-\frac{\pi r}{m_{s}}\right) \cdot e^{2} \, dz = A \cdot e^{\frac{\pi r}{k_{s}T}}$ $= A \left(-\frac{\pi r}{m_{$

$$A = \frac{mq}{k_BT}$$

$$V_z =$$



$$\frac{\sqrt{12}}{\sqrt{12}} = \frac{\sqrt{12}}{\sqrt{12}} = \frac{\sqrt{12}}{$$

$$W = \frac{C}{2k_BT} e^{-\frac{Clpx}{k_BT}}$$

$$E = \int E(px) \cdot W(px) dpx = \frac{clpx}{k_BT} dpx = \frac{c^2}{k_BT} \int_0^p px e^{-\frac{clpx}{k_BT}} dpx = \frac{c^2}{k_BT} \int_0^p px e^{-\frac{clpx}{$$

$$W_{i} = A \cdot e^{-\frac{Ei}{K_{B}T}}$$

$$\sum_{i \in \{1,2,3\}} W_{i} = A \left(e^{\frac{K_{B}T}{k_{B}T}} + 1 + e^{-\frac{MB}{K_{B}T}}\right) = 1$$

$$= A = \frac{1}{1 + e^{\frac{K_{B}T}{k_{B}T}}} = 0,99$$

$$V_{1} = \frac{1}{1 + e^{\frac{K_{B}T}{k_{B}T}}} = 0,99$$

$$V_{2} = \frac{1}{1 + e^{\frac{K_{B}T}{k_{B}T}}} = 0,99$$

$$V_{3} = \frac{1}{1 + e^{\frac{K_{B}T}{k_{B}T}}} = 0,99$$

$$V_{4} = \frac{1}{1 + e^{\frac{K_{B}T}{k_{B}T}}} = 0,99$$

$$V_{5} = \frac{1}{1 + e^{\frac{K_{B}T}{k_{B}T}}} = 0,99$$

$$V_{7} = \frac{1}{1 + e^$$

$$\frac{MB}{KT} \approx 4,6$$

$$\Rightarrow T = \frac{MB}{4,6K}$$

$$\frac{N4}{LeZ}, L \geq 0$$

$$MeZ: Me[-L;L]$$

$$E_{L} = \frac{\hbar^{2}L(L+1)}{(2T)}$$

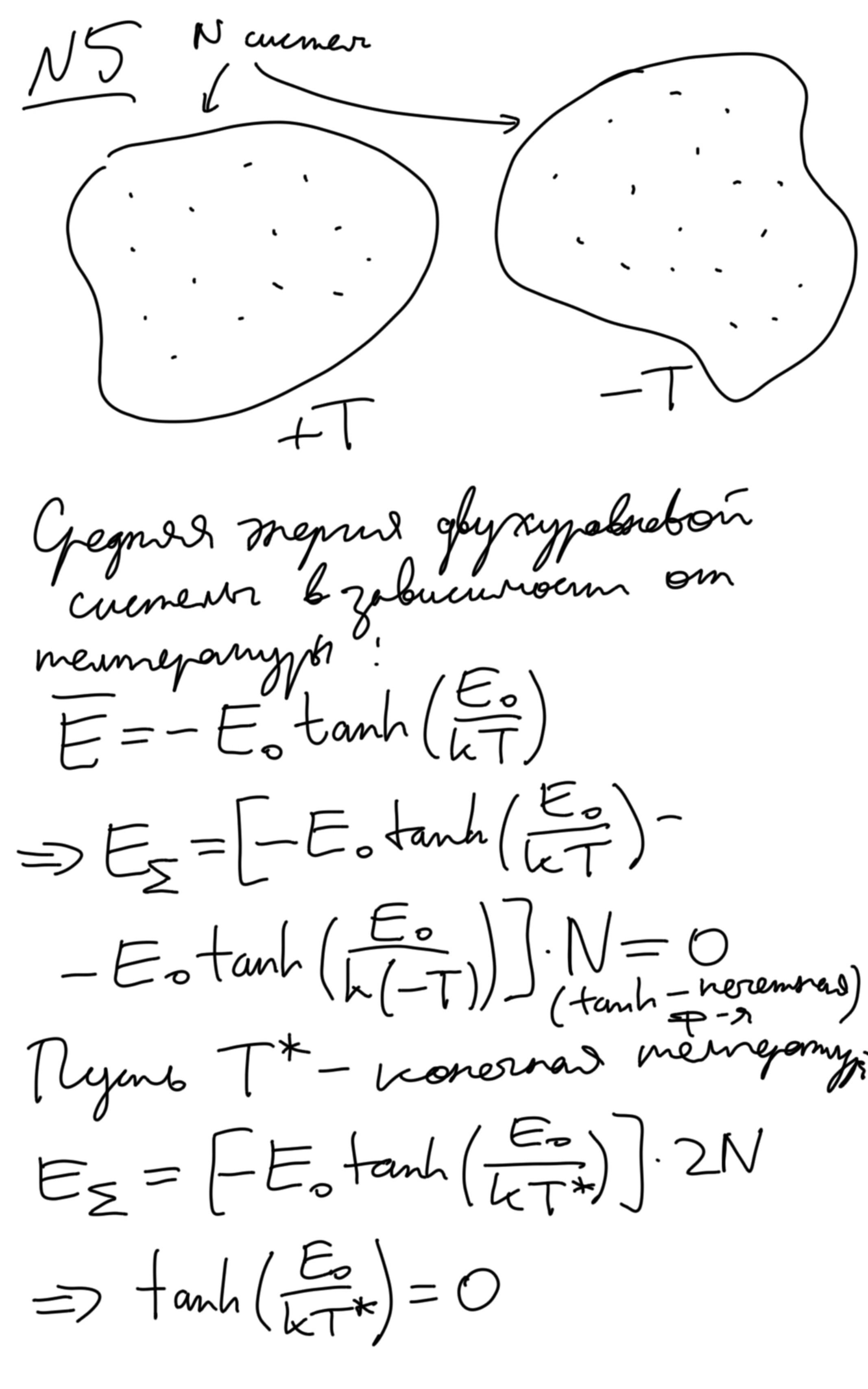
$$W(L,M) = A e^{-\frac{L}{k_{B}T}} = \frac{\hbar^{2}L(L+1)}{k_{B}T}$$

$$= A \cdot \sum_{L=0}^{\infty} (2L+1) \cdot e^{-\frac{L}{2T}k_{B}T} = 1$$

$$\Rightarrow A = \frac{1}{\sum_{L=0}^{\infty} (2L+1)} e^{-\frac{L}{2T}k_{B}T}$$

 $E = \sum_{l=0}^{2} \sum_{m=-l}^{l} W(L,m) \cdot E_{L} =$

_(L+1) _(L+1) 2 (2L+1)(L+1) L. e ZI kgT



$$\Rightarrow T^* = \sqrt{\frac{E_0}{k \operatorname{anctanh}(0)}}$$

$$\Rightarrow T^* = \pm \infty$$