a) Chon more the name toi rong roe:
$$W = -m_1 g l_1 + \frac{1}{2} m_1 n_1^2 + \frac{1}{2} m_2 v_2^2 - m_2 l_2 \sin \alpha$$

=1 - 
$$\frac{m_{1}}{m_{1}}$$
 = 0 +  $\frac{m_{1}}{m_{1}}$  = 0 +  $\frac{m_{2}}{m_{1}}$  = 0 +  $\frac{m_{2}}{m_{1}}$  = 0 +  $\frac{m_{2}}{m_{1}}$  = 0 +  $\frac{m_{2}}{m_{2}}$  = 0 +  $\frac{m_{2}}{m_{1}}$  = 0 +  $\frac{m_{2}}{m_{1}}$  = 0 +  $\frac{m_{2}}{m_{1}}$  = 0 +  $\frac{m_{2}}{m_{2}}$  = 0 +

=) 
$$Q = \frac{gm_1 - m_2 sind}{m_1 + m_2} \sim 1,63 (M/S^2)$$

b)

$$t_{2} - m_{2}q \sin \alpha - 1 < m_{2}q \cos \alpha = m_{2}q$$

$$= 1 \quad 0 = \frac{q m_{1} - m_{2}q \sin \alpha - k m_{2}q \cos \alpha}{m_{1} + m_{2} + \frac{M}{q}} \sim 0, 41 (m (s^{2}))$$

$$t_1 = gm_1 - m_1 ce \sim 37,56 (N)$$
 $t_2 = t_1 - \frac{1}{2} mar 37,15 (N)$ 

Q im 2 .

$$C_1 \qquad T_2 = T_2 \left( \frac{V_1}{V_2} \right)^{3-2} = 600 \quad (K)$$

$$T_3 = \frac{\sqrt{3}}{\sqrt{2}} T_2 \simeq 900 (K)$$

$$T_{ij} - t_3 \left(\frac{V_3}{V_{ij}}\right)^{r-1} \simeq 519$$
 (k)

b) 
$$A' = Q_{23} + Q_{41} = nCp(T_2-T_2) + nC_V(T_1-T_0) = 91^23/8$$
 (7.