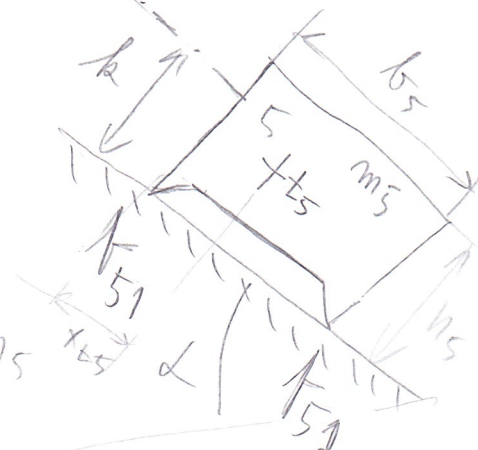
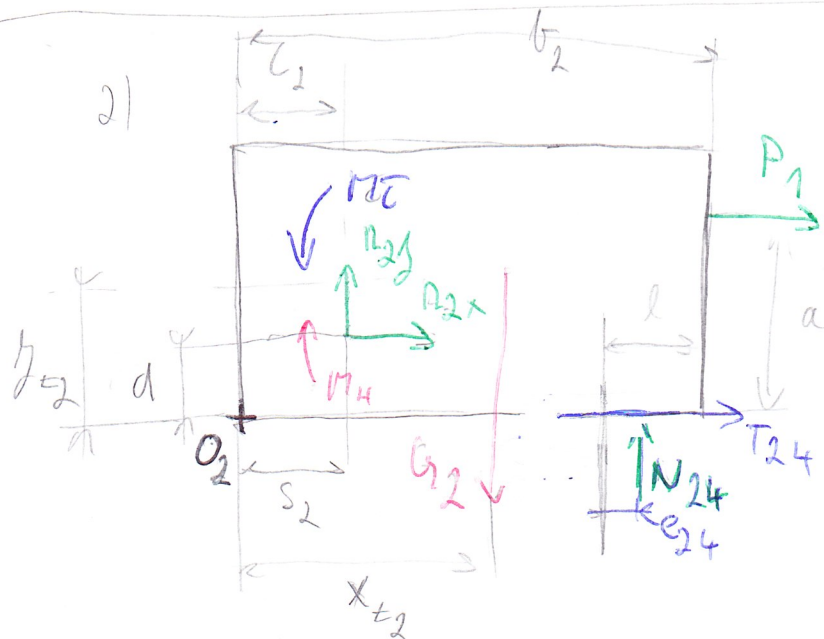


g ↓



D:  $m_2, m_3, m_4, m_5, g, a, b_2, b_5, h_2, h_5, c_2, d, s_2, e_{13}, e_{24}, e_{14}, f_{13}, f_{14}, f_{24}, f_{51}, f_{52}, f, v_3, v_4, x_{t2}, \delta_{t2}, x_{t5}, \delta_{t5}, \alpha$  ( $\omega = \text{konst}$ )

V:  $M_H$



$$x: R_{2x} + P_1 + T_{24} = 0 \quad (1)$$

$$y: R_{2y} - G_2 + N_{24} = 0 \quad (2)$$

$$\begin{aligned} \text{rot } O_2: M_c - M_4 + R_{2y} \cdot s_2 - R_{2x} \cdot d + \\ + N_{24} (b_2 - l + e_{24}) - P_1 a - G_2 x_{t2} = 0 \end{aligned} \quad (3)$$

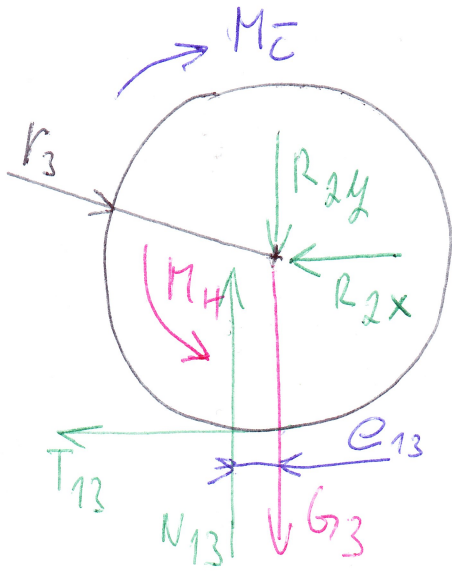
$$G_2 = m_2 g \quad (4)$$

$$M_c = v_c f_c R_{2y} \quad (5)$$

$$R_2 = \sqrt{R_{2x}^2 + R_{2y}^2} \quad (6)$$

$$T_{24} \leq f_{24} N_{24}$$

3)



$$x: T_{13} + R_{2x} = 0 \quad (7)$$

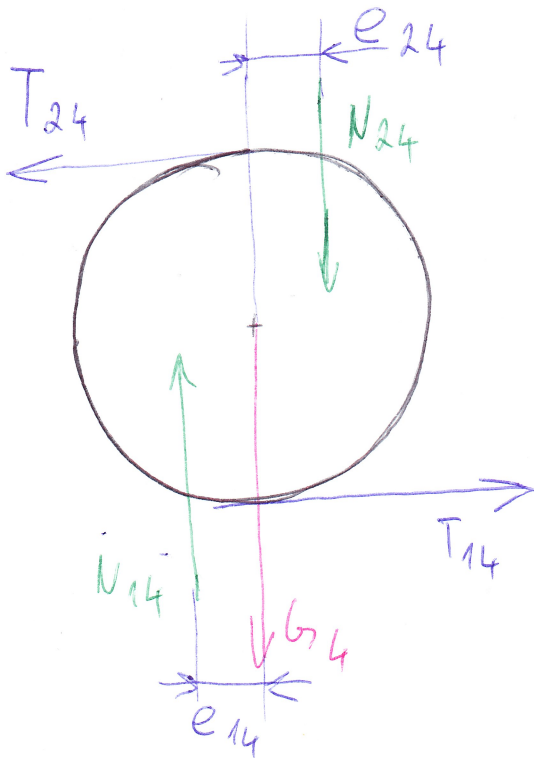
$$y: N_{13} - G_3 - R_{2y} = 0 \quad (8)$$

$$\sum \vec{M}: M_H - M_c - N_{13} \cdot e_{13} - T_{13} \cdot v_3 = 0 \quad (9)$$

$$G_3 = m_3 g \quad (10)$$

$$T_{13} \leq f_{13} N_{13}$$

4)



$$T_{14} - T_{24} = 0 \quad (11)$$

$$N_{14} - N_{24} - G_4 = 0 \quad (12)$$

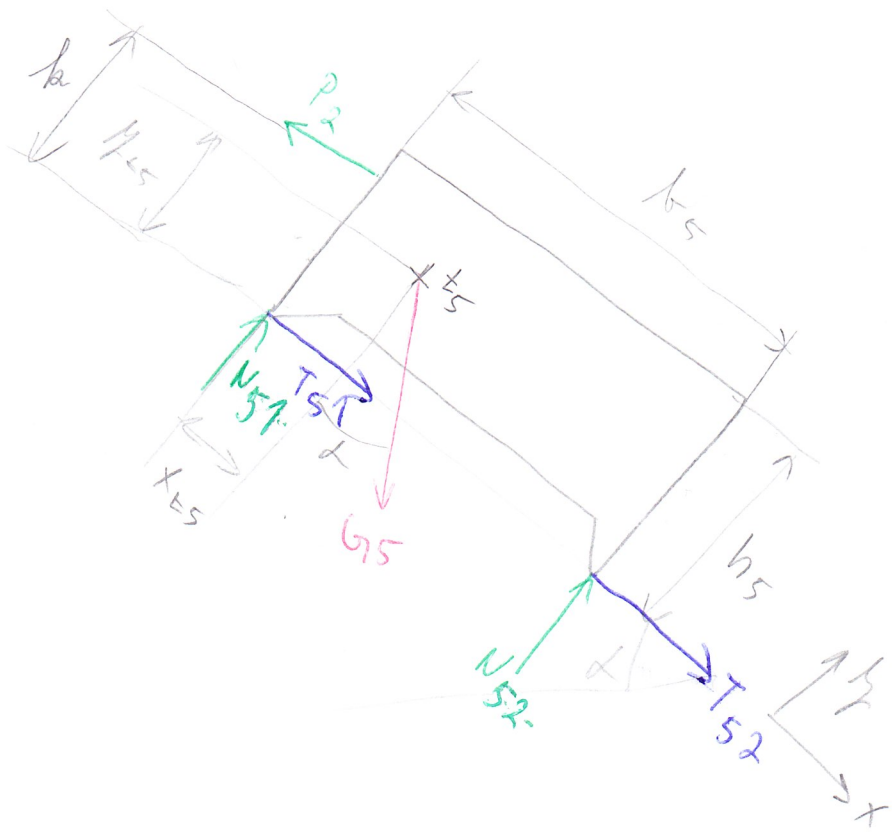
$$T_{24} \cdot v_4 - N_{24} \cdot e_{24} + T_{14} \cdot v_4 - N_{14} \cdot e_{14} = 0 \quad (13)$$

$$G_4 = m_4 g \quad (14)$$

$$T_{14} \leq f_{14} N_{14}$$

$$P_1 = P_2 e^{f \alpha} \quad (15)$$





$$X: T_{51} + T_{52} + G_5 \sin \alpha - P_2 = 0 \quad (16)$$

$$Y: N_{51} + N_{52} - G_5 \cos \alpha = 0 \quad (17)$$

$$\curvearrowright E_5: T_{51} \cdot h_{E5} + T_{52} \cdot h_{E5} - N_{51} \cdot x_{E5} + N_{52} \cdot (h_5 - x_{E5}) + P_2 (h_2 - h_{E5}) = 0 \quad (18)$$

$$T_{51} = f_{51} \cdot N_{51} \quad (19)$$

$$T_{52} = f_{52} \cdot N_{52} \quad (20)$$

$$G_5 = m_5 g \quad (21)$$

21/21 ✓