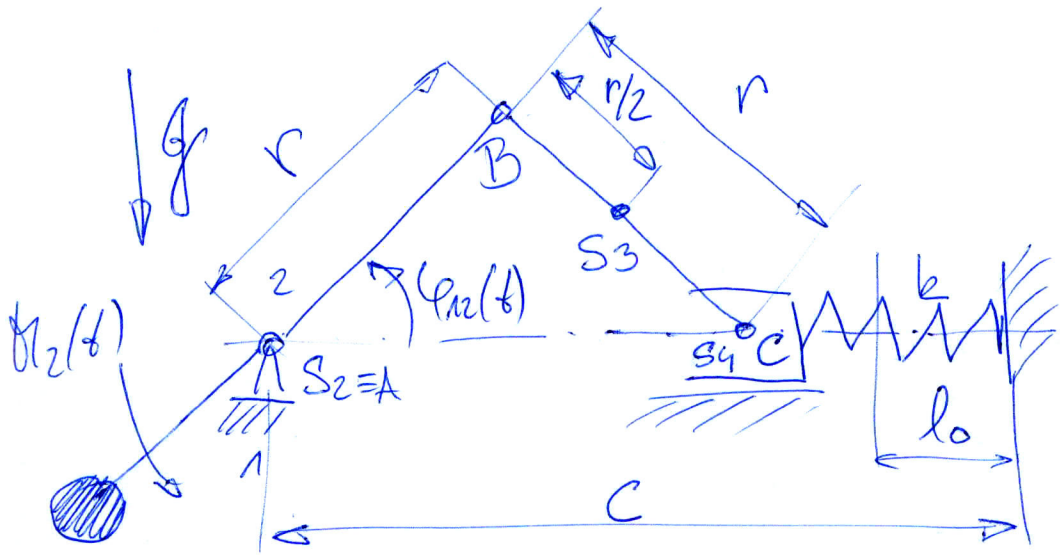
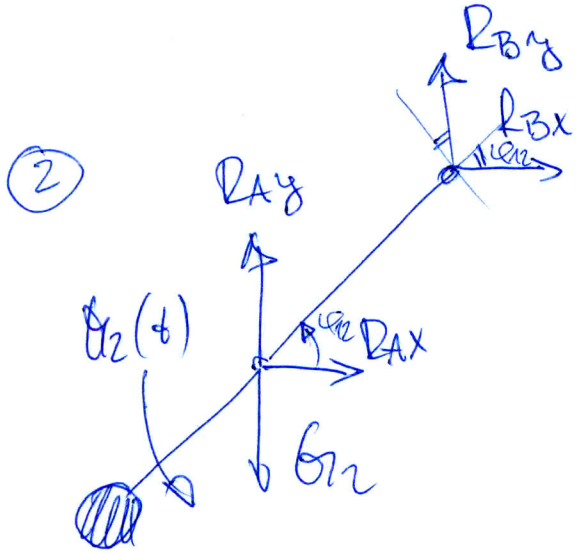
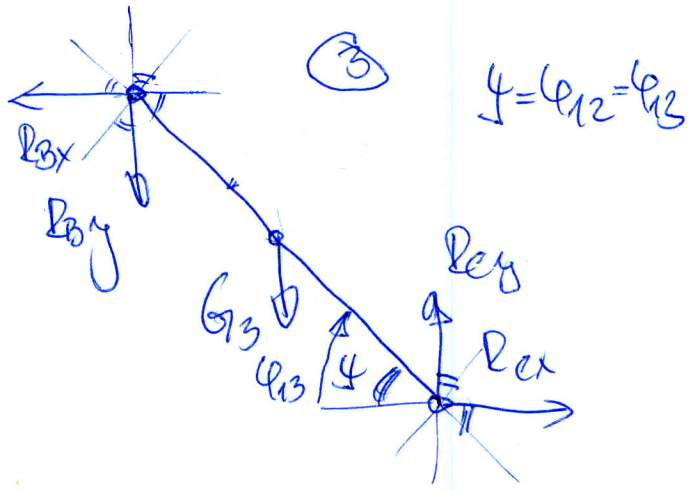


D: $u_2, u_3, u_4, I_{2S2}, I_{3S3}, I_{4S4}, r, k, g, M_2$

U: • układ
• sześć poł. równań N-Eul. płaskich





$$0 = R_{Ax} + R_{Bx}$$

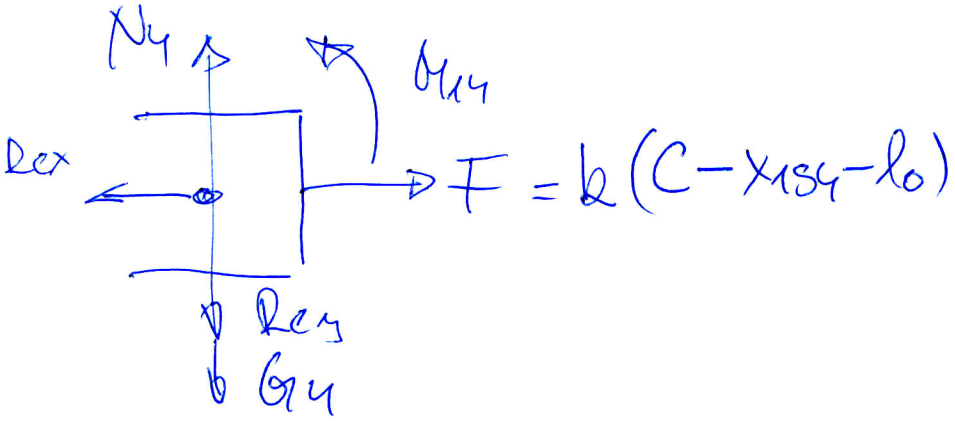
$$0 = R_{Ay} - G_2 + R_{By}$$

$$I_{2S2}\ddot{\varphi}_{12} = M_2(t) + R_{By}\cos\varphi_{12}\cdot r - R_{Bx}\sin\varphi_{12}\cdot r$$

$$u_3\ddot{x}_{13S3} = R_{cx} - R_{Bx}$$

$$u_3\ddot{y}_{13S3} = R_{cy} - G_3 - R_{By}$$

$$I_{3S3}\cdot\ddot{\varphi}_{13} = -\left[R_{Bx}\sin\varphi_{13} + R_{By}\cos\varphi_{13} + R_{cy}\cos\varphi_{13} + R_{cx}\sin\varphi_{13}\right]\frac{r}{2}$$



$$m_4 \cdot \ddot{x}_{154} = F - R_{ex}$$

$$0 = N_4 - G_4 - R_{ey}$$

$$0 = M_{14}$$