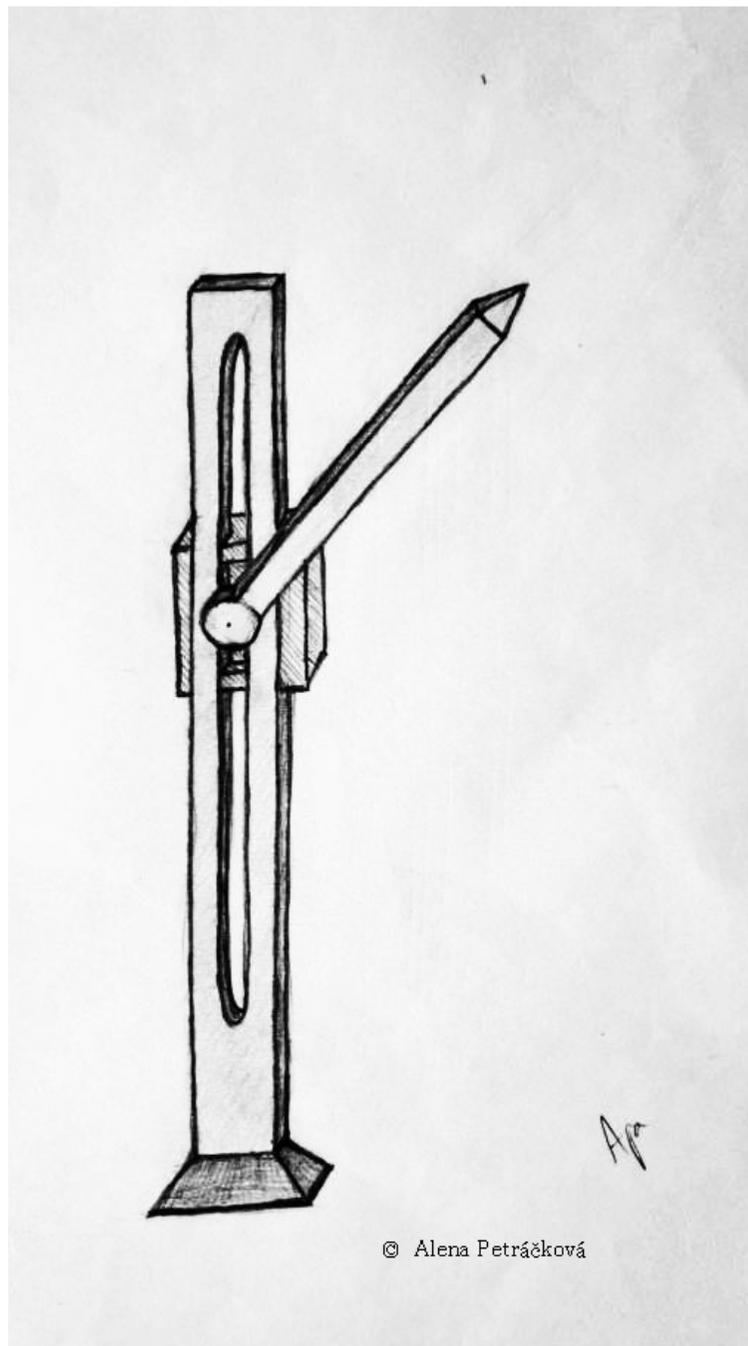
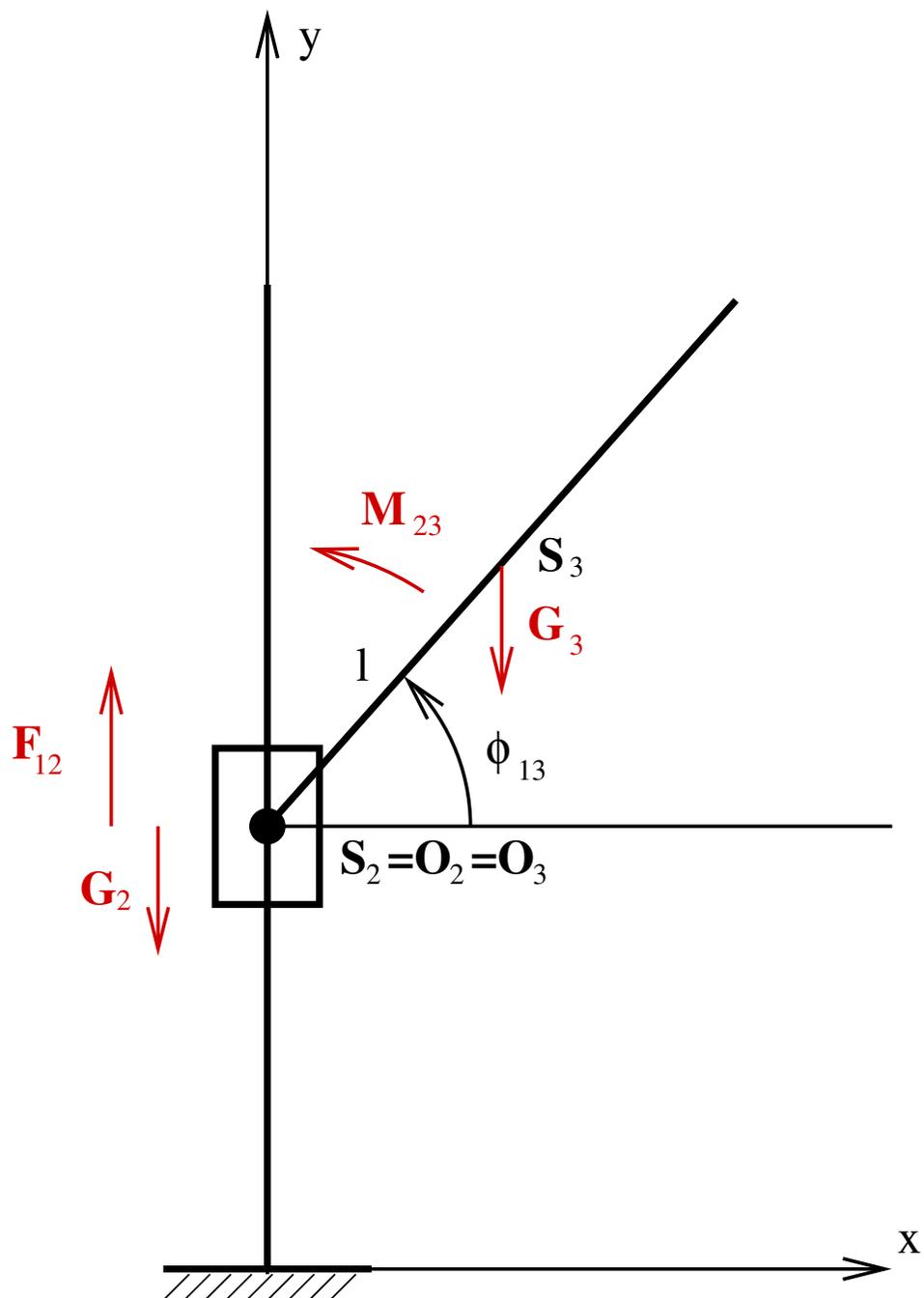


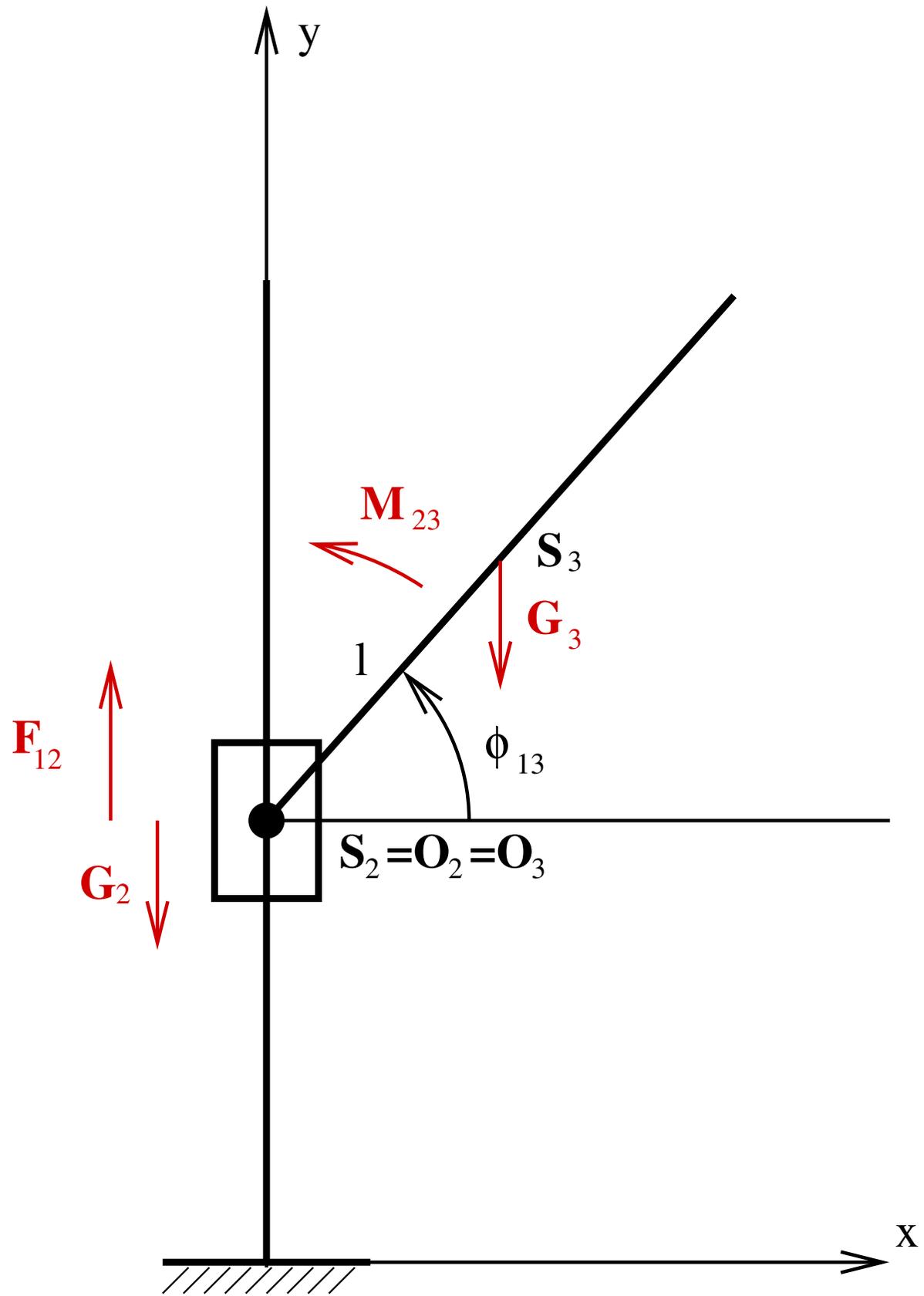
# Lagrange Equations - Mixed Type, Example

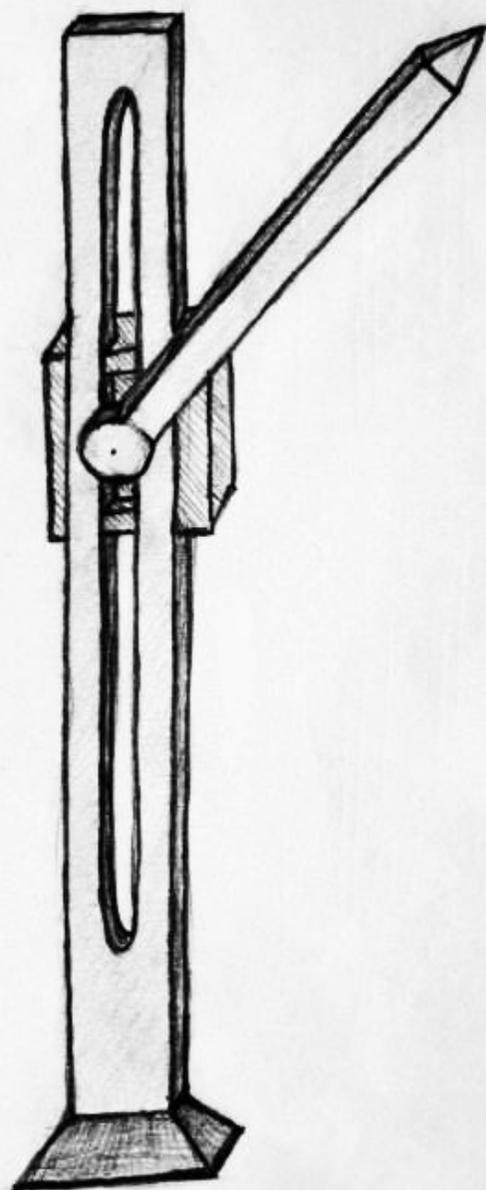


$$\begin{aligned}
 S_2 &= O_2 = \\
 &= O_3 = \\
 &= \begin{pmatrix} x_2 \\ y_2 \end{pmatrix} \\
 S_3 &= \begin{pmatrix} x_3 \\ y_3 \end{pmatrix} \\
 l &= |S_2 S_3|
 \end{aligned}$$

Known:

$$\begin{pmatrix} m_2 \\ m_3 \\ I_{3S3} \end{pmatrix}$$





AP