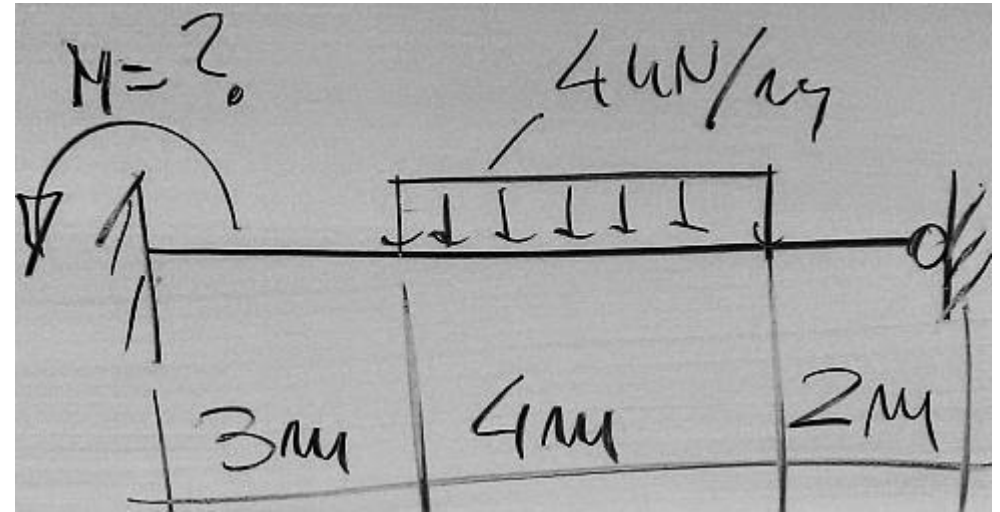
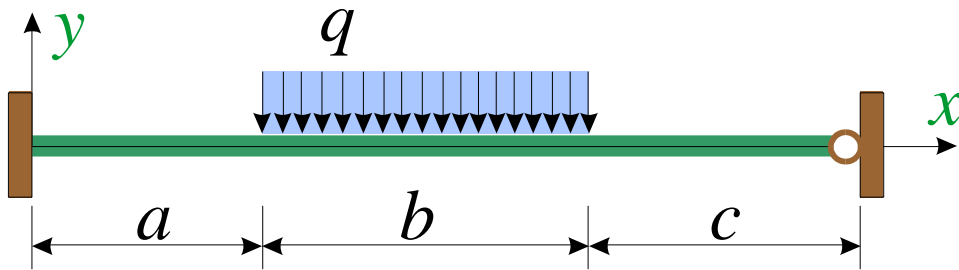


Grupa B

$$q := 4 \frac{\text{kN}}{\text{m}} \quad a := 3\text{m} \quad b := 4\text{m} \quad c := 2\text{m} \quad L := a + b + c$$

$$\xi_1 := \frac{a}{L} = 0.333333 \quad \xi_2 := \frac{a+b}{L} = 0.777778$$



Równanie pracy wirtualnej

$$M_i \cdot 1 - q \cdot L^2 \cdot \int_{\xi_1}^{\xi_2} G_{0100}(\xi) d\xi = 0$$

$$M_i := q \cdot L^2 \cdot \int_{\xi_1}^{\xi_2} G_{0100}(\xi) d\xi$$

$$M := M_i = 24.099 \cdot \text{kN} \cdot \text{m}$$

$$G_{0100}(\xi) := \frac{\xi}{2} \cdot (2 - 3 \cdot \xi + \xi^2)$$

