

Zad. 2 Grupa 1

$$q := 3 \frac{\text{kN}}{\text{m}}$$

$$a := 2\text{m}$$

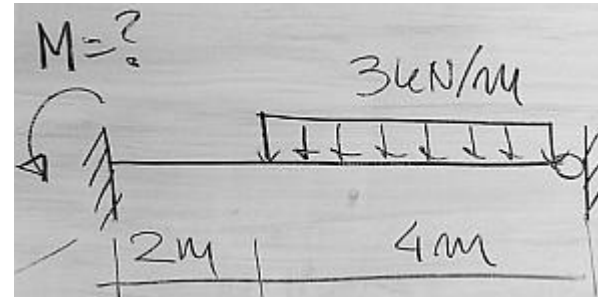
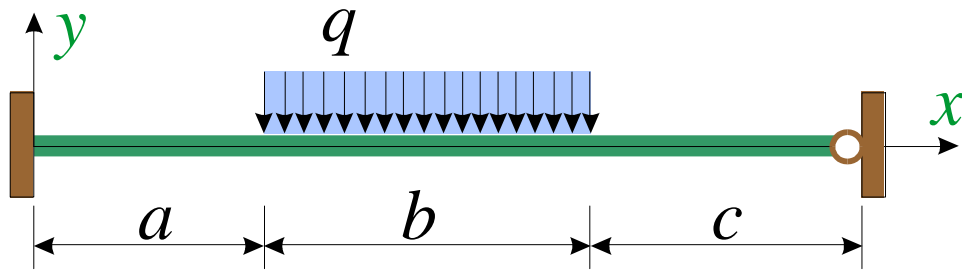
$$b := 4\text{m}$$

$$c := 0\text{m}$$

$$L := a + b + c = 6\text{m}$$

$$\xi_1 := \frac{a}{L} = 0.333333$$

$$\xi_2 := \frac{a+b}{L} = 1$$



$$G0100(\xi) := \frac{\xi}{2} \cdot (2 - 3 \cdot \xi + \xi^2)$$

Równanie pracy wirtualnej

$$M_i \cdot 1 - q \cdot L^2 \cdot \int_{\xi_1}^{\xi_2} G0100(\xi) d\xi = 0$$

$$M_i := q \cdot L^2 \cdot \int_{\xi_1}^{\xi_2} G0100(\xi) d\xi = 9.333333 \text{ m} \cdot \text{kN}$$

$$M_i = 9.333 \text{ m} \cdot \text{kN}$$

G0100(ξ)

