

Zad. 3

$$q := 5 \frac{\text{kN}}{\text{m}}$$

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

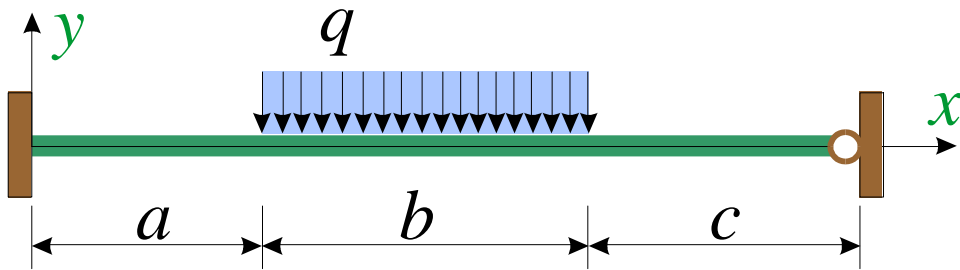
$$b := 2\text{m}$$

$$c := 3\text{m}$$

$$L := a + b + c$$

$$\xi_1 := \frac{a}{L} = 0.285714$$

$$\xi_2 := \frac{a+b}{L} = 0.571429$$



$$G0010(\xi) := \frac{\xi^2}{2} \cdot (3 - \xi)$$

Równanie pracy wirtualnej

$$R_j \cdot 1 - q \cdot L \cdot \int_{\xi_1}^{\xi_2} G0010(\xi) d\xi = 0$$

$$R_j := q \cdot L \cdot \int_{\xi_1}^{\xi_2} G0010(\xi) d\xi = 2.419825 \cdot \text{kN}$$

$$R_j = 2.420 \text{ kN}$$

G0010 (ξ)

