

Zad. 2 Grupa 2

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

$$a := 1\text{ m}$$

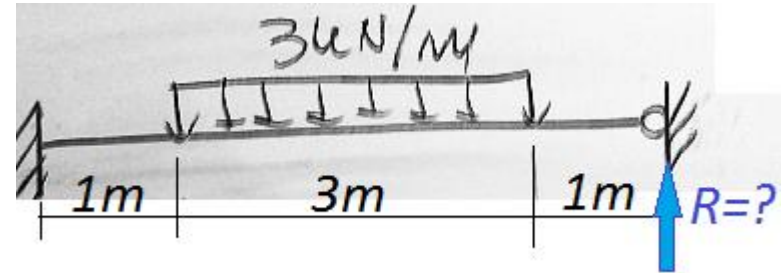
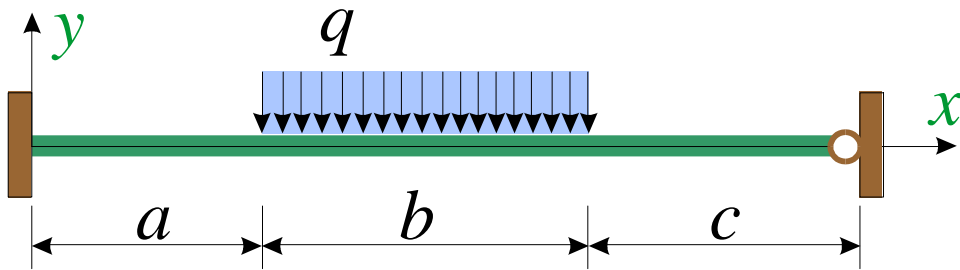
$$b := 3\text{ m}$$

$$c := 1\text{ m}$$

$$L := a + b + c = 5\text{ m}$$

$$\xi_1 := \frac{a}{L} = 0.2$$

$$\xi_2 := \frac{a+b}{L} = 0.8$$



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

Równanie pracy wirtualnej

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

G0010(ξ)

$$R := q \cdot L \cdot \int_{\xi_1}^{\xi_2} G0010(\xi) d\xi = 3.015 \cdot \text{kN}$$

$$R = 3.015 \cdot \text{kN}$$

