

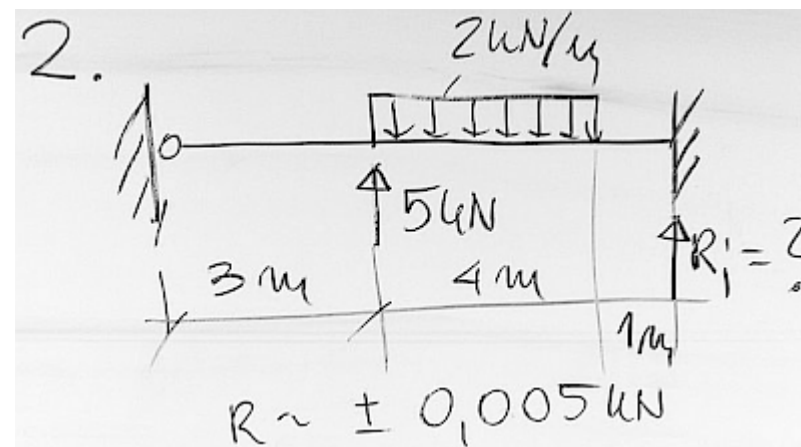
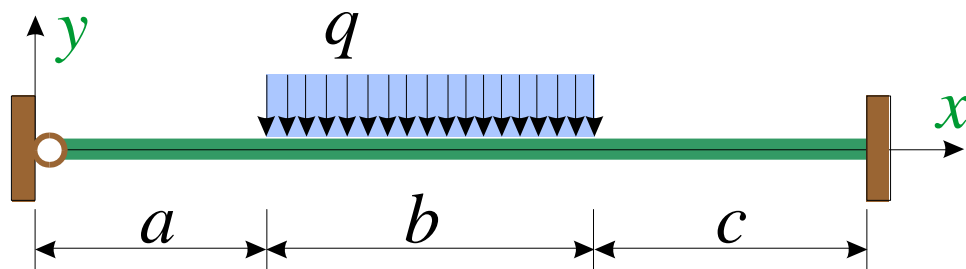
Grupa A

$$q := 2 \frac{\text{kN}}{\text{m}} \quad a := 3\text{m} \quad b := 4\text{m} \quad c := 1\text{m} \quad L := a + b + c$$

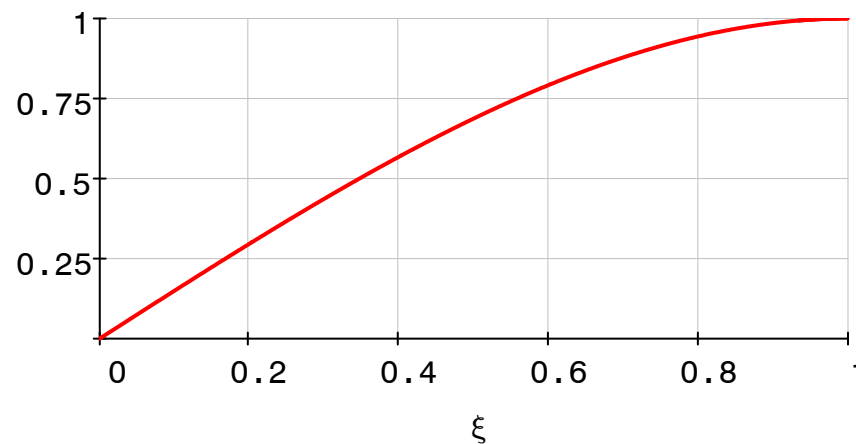
$$P := 5\text{kN}$$

$$\xi_1 := \frac{a}{L} = 0.375$$

$$\xi_2 := \frac{a+b}{L} = 0.875$$



$$K0010(\xi) := \frac{\xi}{2} \cdot (3 - \xi^2)$$



Równanie pracy wirtualnej

$$R_j \cdot 1 + P \cdot K0010(\xi_1) - q \cdot L \cdot \int_{\xi_1}^{\xi_2} K0010(\xi) d\xi = 0$$

$$R_j := -P \cdot K0010(\xi_1) + q \cdot L \cdot \int_{\xi_1}^{\xi_2} K0010(\xi) d\xi$$

K0010(ξ)

$$R_j = 3.69 \cdot \text{kN}$$