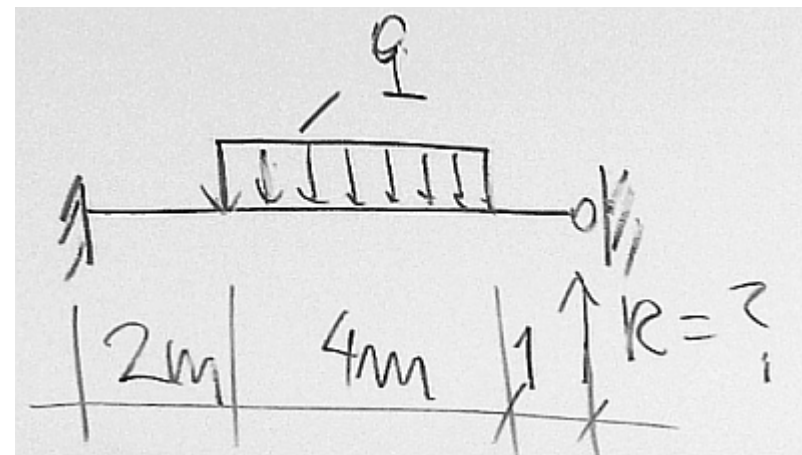
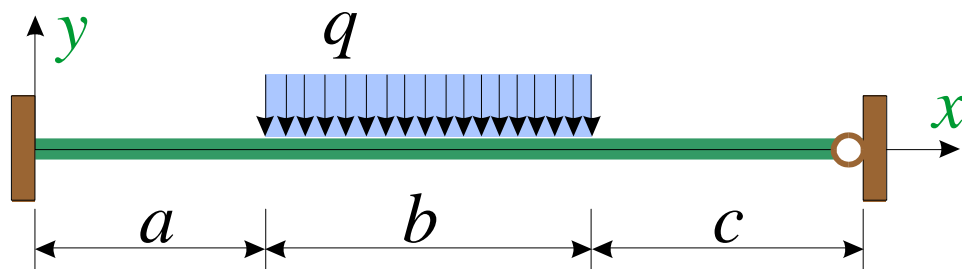


Grupa 2B, zad 2

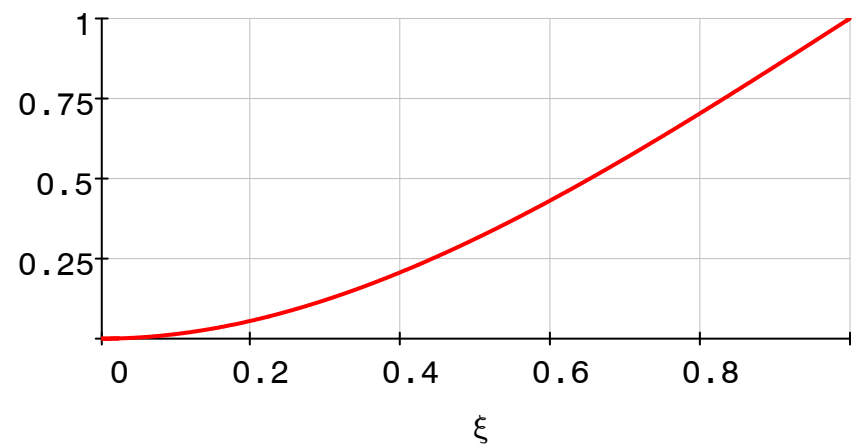
$$q := 4 \frac{\text{kN}}{\text{m}} \quad a := 2\text{m} \quad b := 4\text{m} \quad c := 1\text{m} \quad L := a + b + c$$

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

$$\xi_2 := \frac{a+b}{L} = 0.857143$$



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



Równanie pracy wirtualnej

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

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

$$R := R_j = 6.6239 \cdot \text{kN}$$

G0010(ξ)