

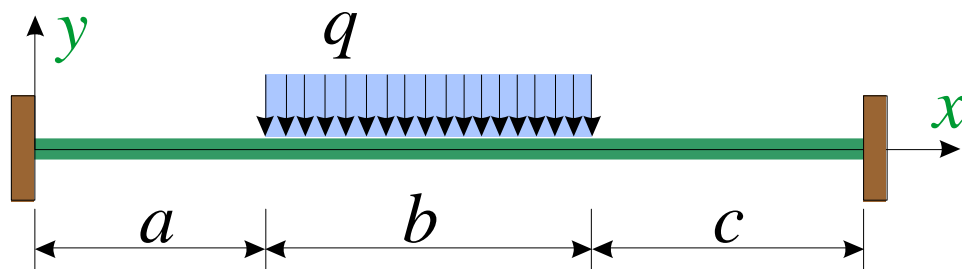
Grupa A

Zad. 3

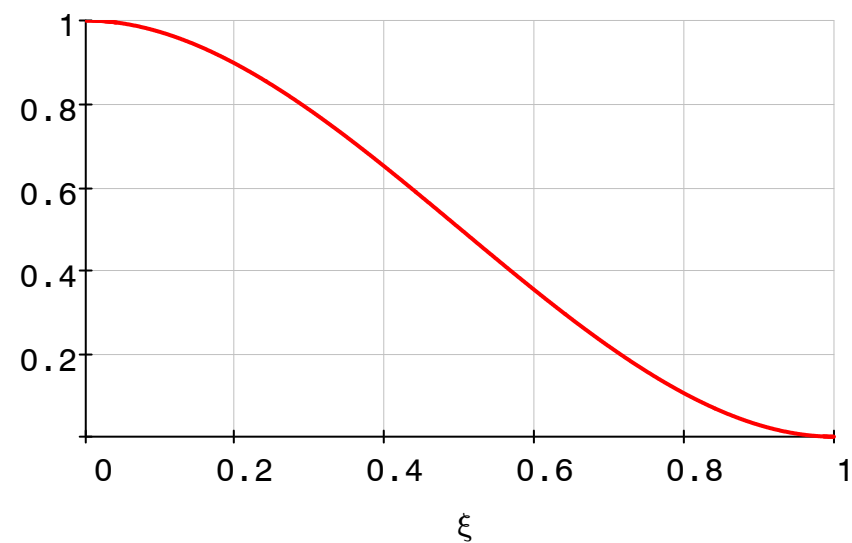
$$q := 6 \frac{\text{kN}}{\text{m}} \quad a := 1\text{m} \quad b := 3\text{m} \quad \underline{c} := 2\text{m} \quad \underline{L} := a + b + c$$

$$\xi_1 := \frac{a}{L} = 0.166667$$

$$\xi_2 := \frac{a+b}{L} = 0.666667$$



$$H1000(\xi) := 1 - 3 \cdot \xi^2 + 2 \cdot \xi^3$$



Równanie pracy wirtualnej

$$R_i \cdot 1 - q \cdot L \cdot \int_{\xi_1}^{\xi_2} H1000(\xi) d\xi = 0$$

$$R_i := q \cdot L \cdot \int_{\xi_1}^{\xi_2} H1000(\xi) d\xi = 11.042 \cdot \text{kN}$$