

## Grupa A2

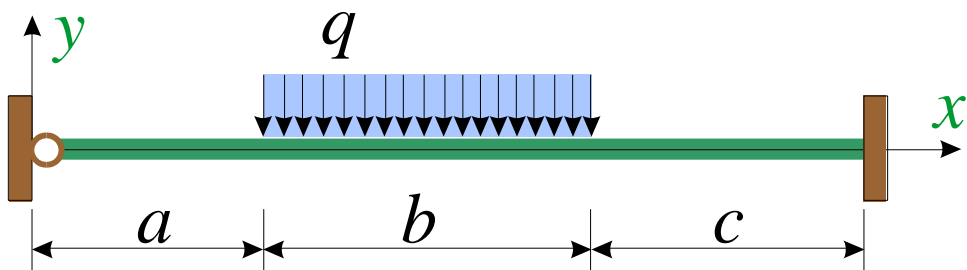
### Zad. 3

$$q := 10 \frac{\text{kN}}{\text{m}} \quad a := 1\text{m} \quad b := 5\text{m} \quad c := 8\text{m} \quad L := a + b + c$$

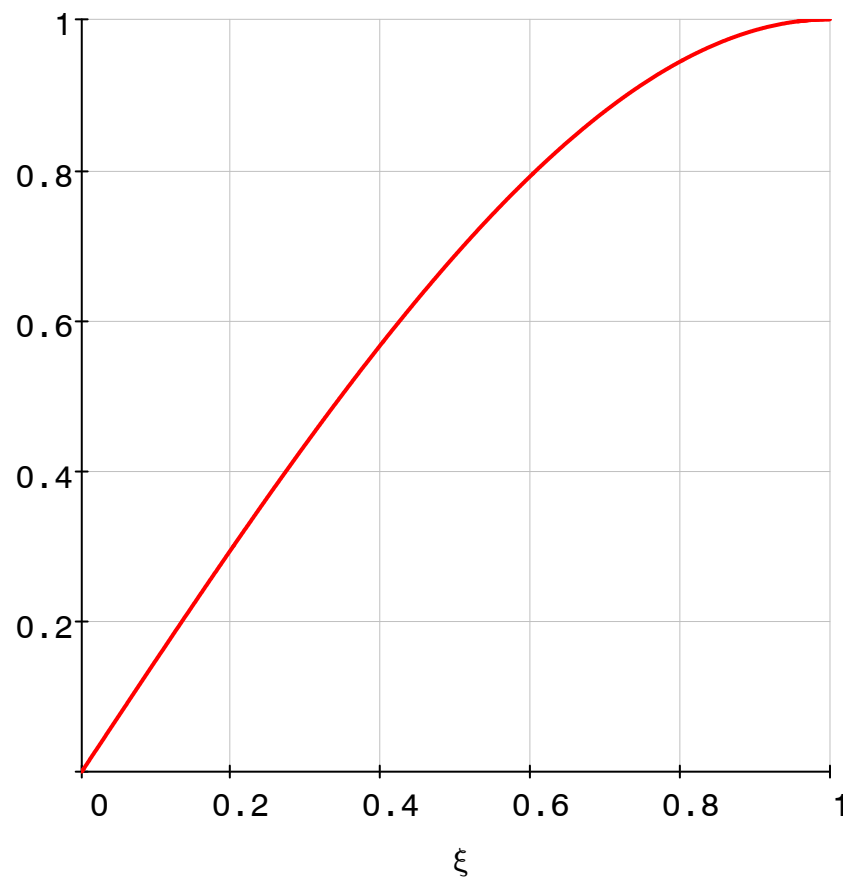
$$\xi_1 := \frac{a}{L} = 0.071429$$

$$\xi_2 := \frac{a + b}{L} = 0.428571$$

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



K0010 (ξ)



### Równanie pracy wirtualnej

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

$$R_j := q \cdot L \cdot \int_{\xi_1}^{\xi_2} K0010(\xi) d\xi = 18.160 \cdot \text{kN}$$