

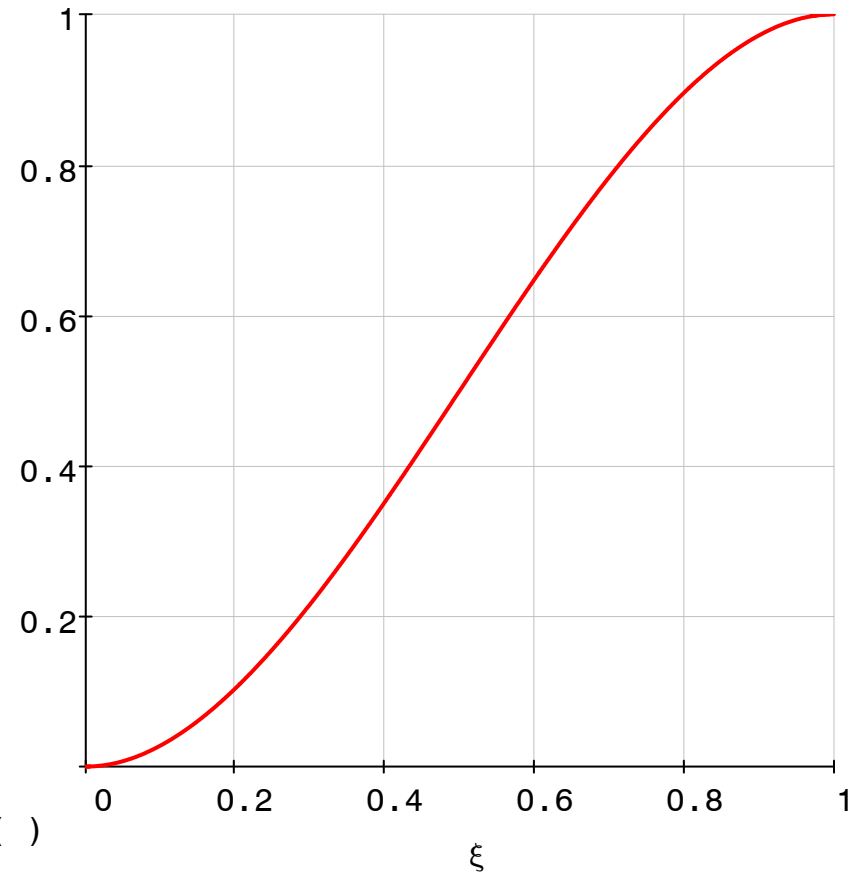
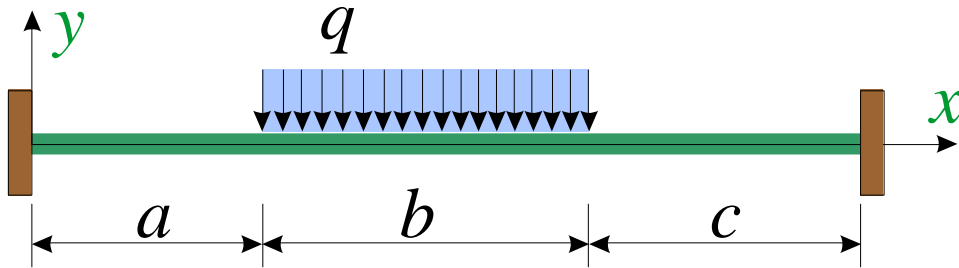
Zad. 3 Grupa B1

$$q := 5 \frac{\text{kN}}{\text{m}} \quad a := 2\text{m} \quad b := 2\text{m} \quad \underline{c} := 4\text{m} \quad \underline{L} := a + b + c$$

$$\xi_1 := \frac{a}{L} = 0.25$$

$$\xi_2 := \frac{a + b}{L} = 0.5$$

$$H0010(\xi) := \xi^2 \cdot (3 - 2 \cdot \xi)$$



Równanie pracy wirtualnej

$$R \cdot 1 - q \cdot L \cdot \int_{\xi_1}^{\xi_2} H0010(\xi) d\xi = 0$$

$$\underline{R} := q \cdot L \cdot \int_{\xi_1}^{\xi_2} H0010(\xi) d\xi = 3.203125 \cdot \text{kN}$$