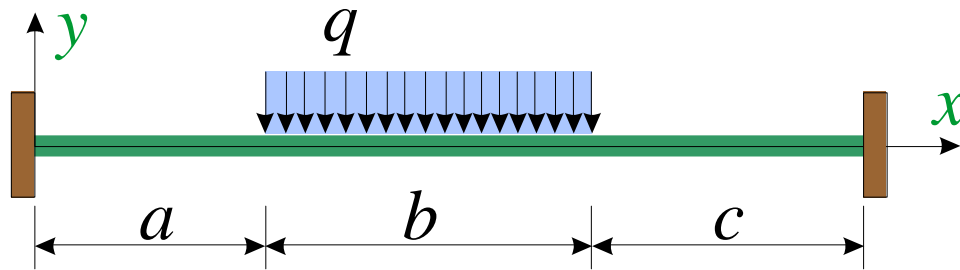


### Zad. 3 Grupa A1

$$q := 5 \frac{\text{kN}}{\text{m}} \quad a := 1\text{m} \quad b := 4\text{m} \quad \underline{c} := 2\text{m} \quad \underline{L} := a + b + c$$

$$\xi_1 := \frac{a}{L} = 0.142857 \quad \xi_2 := \frac{a+b}{L} = 0.714286$$

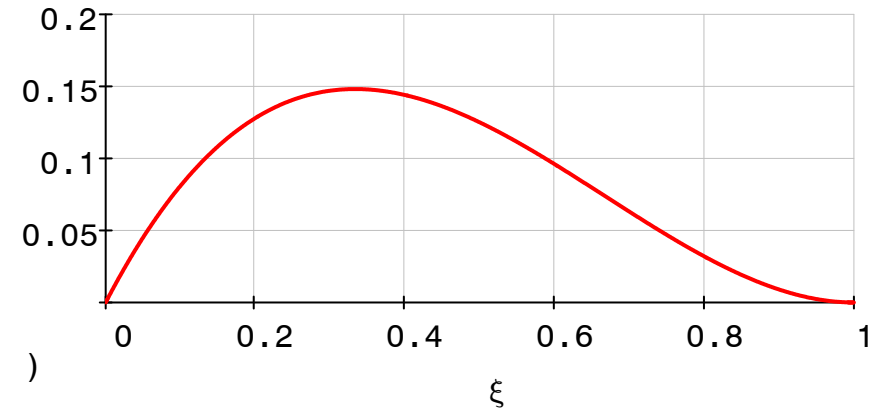


### Równanie pracy wirtualnej

$$M_i \cdot 1 - q \cdot L^2 \cdot \int_{\xi_1}^{\xi_2} H_{0100}(\xi) d\xi = 0$$

$$M_i := q \cdot L^2 \cdot \int_{\xi_1}^{\xi_2} H_{0100}(\xi) d\xi = 16.87 \text{ m} \cdot \text{kN}$$

$$H_{0100}(\xi) := \xi \cdot (1 - 2 \cdot \xi + \xi^2)$$



ξ