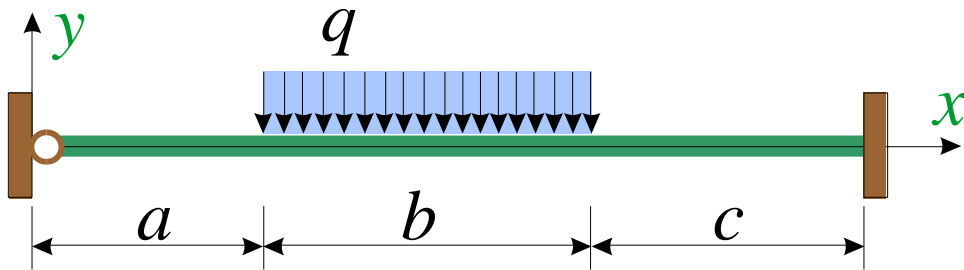


Zad. 3 Grupa B2

$$q := 7 \frac{\text{kN}}{\text{m}} \quad a := 6\text{m} \quad b := 3\text{m} \quad \underline{c} := 2\text{m} \quad \underline{L} := a + b + c$$

$$\xi_1 := \frac{a}{L} = 0.545455 \quad \xi_2 := \frac{a+b}{L} = 0.818182$$

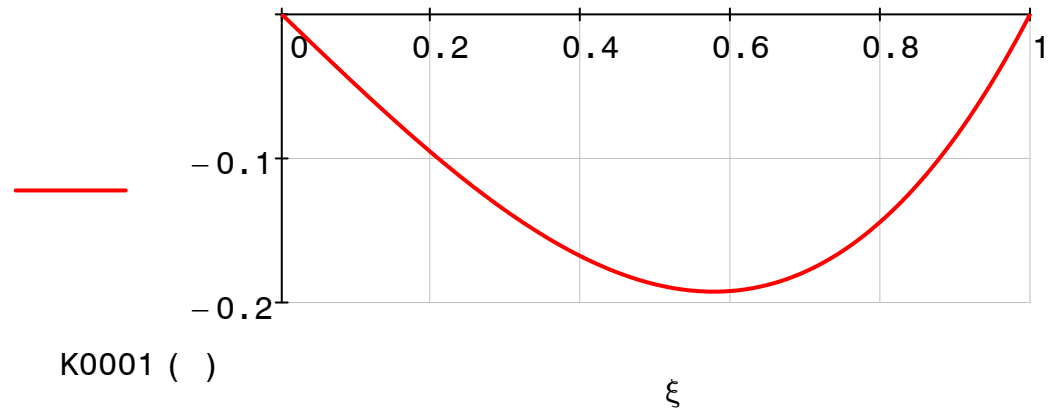


$$K0001(\xi) := \frac{\xi}{2} \cdot (\xi^2 - 1)$$

Równanie pracy wirtualnej

$$-M_j \cdot 1 - q \cdot L^2 \cdot \int_{\xi_1}^{\xi_2} K0001(\xi) d\xi = 0$$

$$M_j := -q \cdot L^2 \cdot \int_{\xi_1}^{\xi_2} K0001(\xi) d\xi = 40.68 \cdot \text{kN} \cdot \text{m}$$



ξ