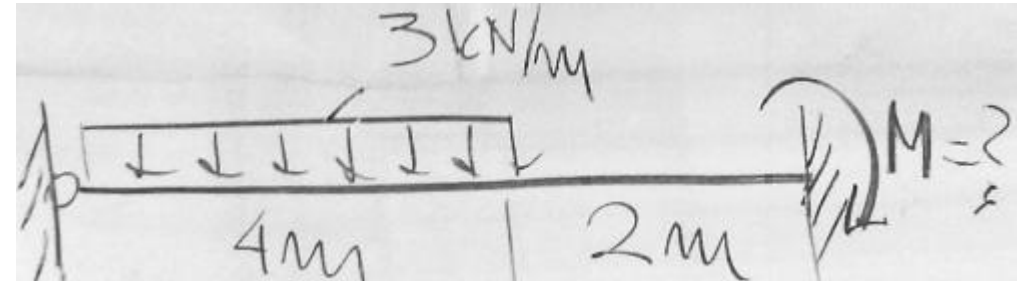
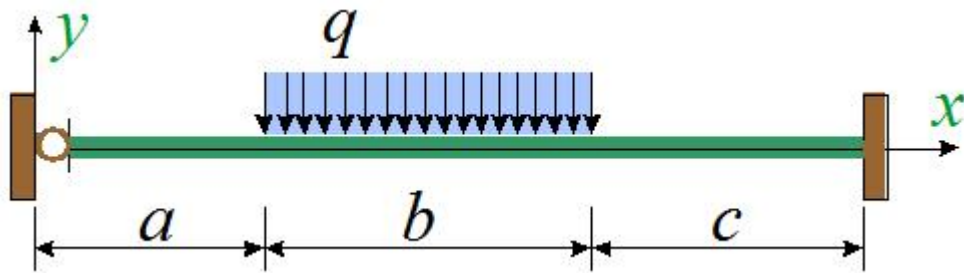


## Zad. 2 Gr1

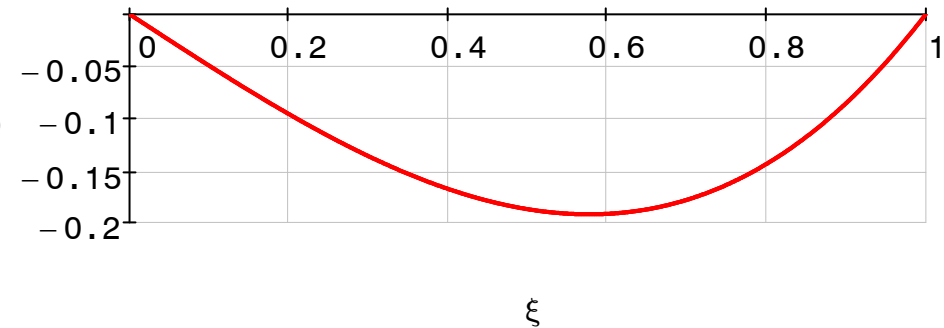
$$q := 3 \frac{\text{kN}}{\text{m}}$$

$$a := 0\text{m} \quad b := 4\text{m} \quad c := 2\text{m} \quad L := a + b + c = 6\text{m}$$

$$\xi_1 := \frac{a}{L} = 0 \quad \xi_2 := \frac{a+b}{L} = 0.666667$$



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



## Równanie pracy wirtualnej

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

$$M := -q \cdot L^2 \cdot \int_{\xi_1}^{\xi_2} K0001(\xi) d\xi = 9.333333 \text{ m} \cdot \text{kN}$$

$$M = 9.33 \cdot \text{kN} \cdot \text{m}$$