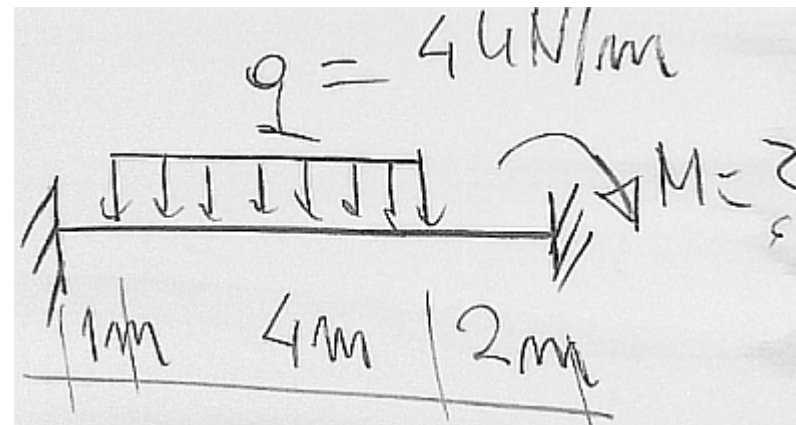
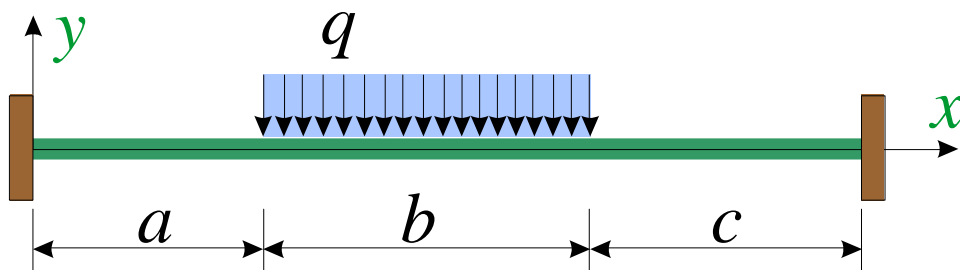


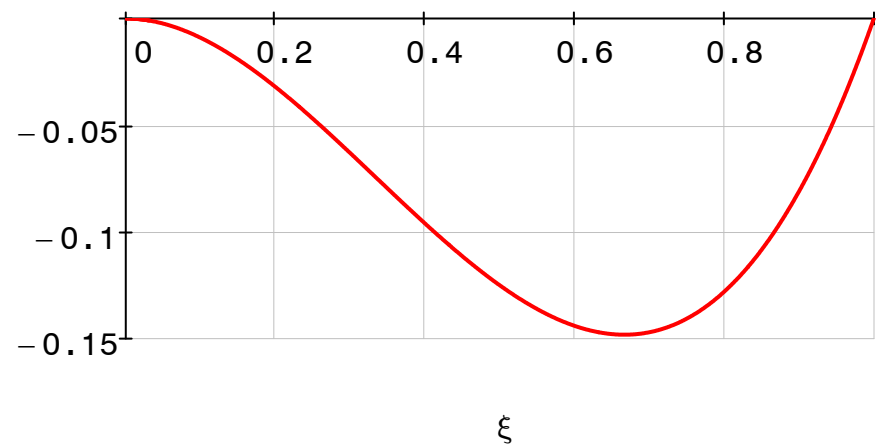
Grupa 1A, zad 2

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

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



$$H0001(\xi) := -\xi^2 \cdot (1 - \xi)$$



Równanie pracy wirtualnej

$$M_j \cdot 1 - q \cdot L^2 \cdot \int_{\xi_1}^{\xi_2} H0001(\xi) d\xi = 0$$

$$M_j := q \cdot L^2 \cdot \int_{\xi_1}^{\xi_2} H0001(\xi) d\xi$$

$$M := -M_j = 10.884 \cdot \text{kN} \cdot \text{m}$$