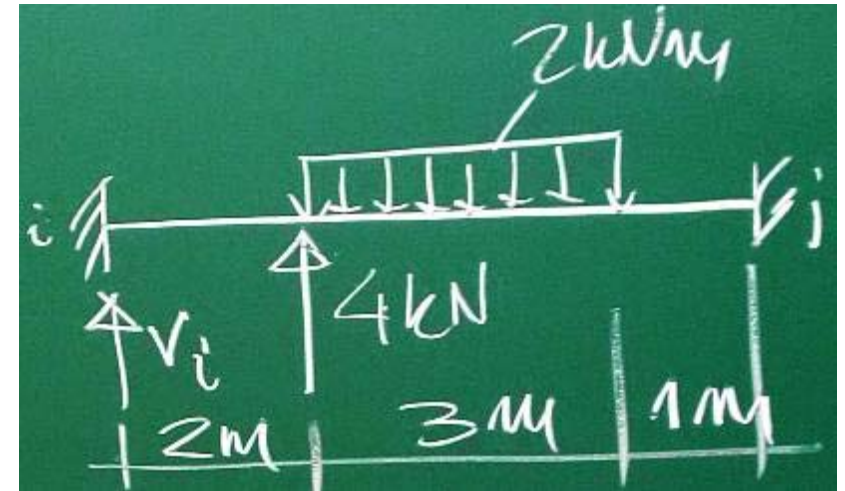
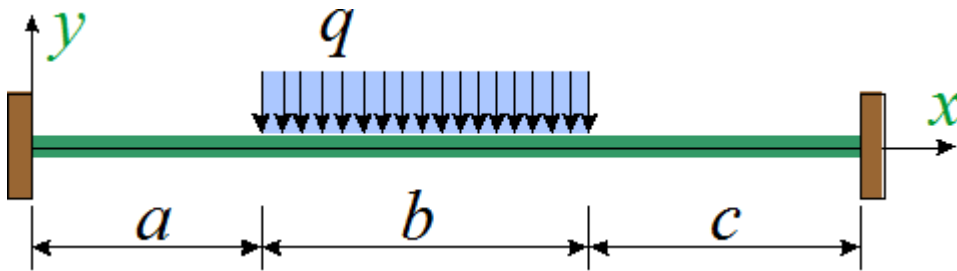


Grupa 2

$$q := 2 \cdot \frac{kN}{m} \quad P := 4 \text{ kN} \quad a := 2 \cdot m \quad b := 3 \cdot m \quad c := 1 \cdot m \quad L := a + b + c$$

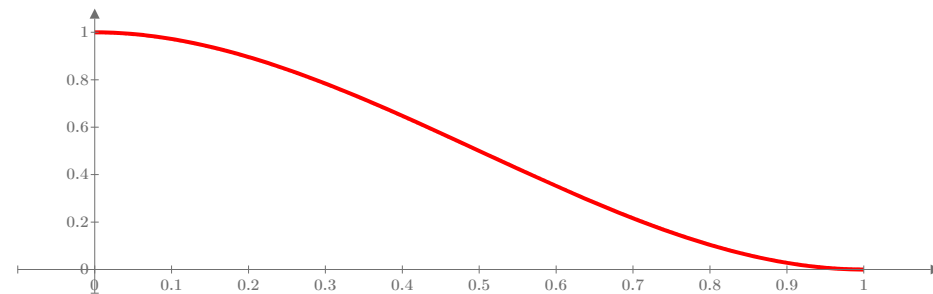
$$\xi_1 := \frac{a}{L} = 0.333333 \quad \xi_2 := \frac{a+b}{L} = 0.833333 \quad \xi_P := \xi_1$$



$$H1000(\xi) := 1 - 3 \cdot \xi^2 + 2 \cdot \xi^3$$

Równanie pracy wirtualnej

$$V_i \cdot 1 + P \cdot H1000(\xi_P) - q \cdot L \cdot \int_{\xi_1}^{\xi_2} H1000(\xi) d\xi = 0$$



$H1000(\xi)$

ξ

$$V_i := q \cdot L \cdot \int_{\xi_1}^{\xi_2} H1000(\xi) d\xi - P \cdot H1000(\xi_P) = -0.64352 \text{ kN}$$