

Zad. 2 Grupa 2

$$q := 5 \frac{\text{kN}}{\text{m}}$$

$$a := 2\text{m}$$

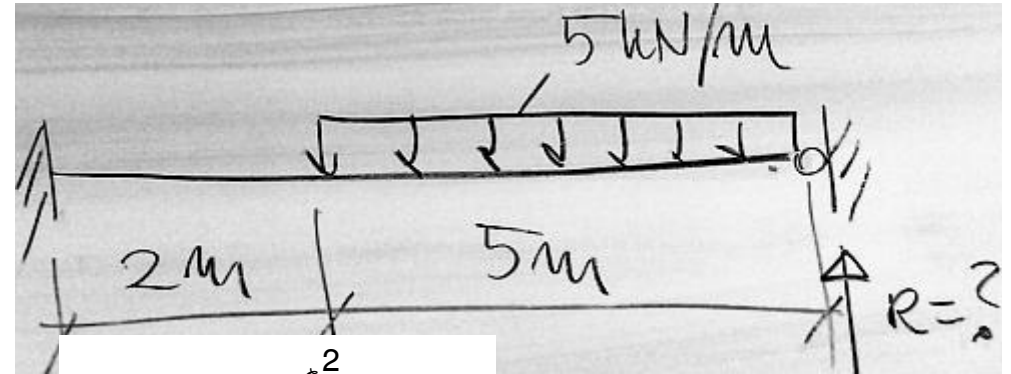
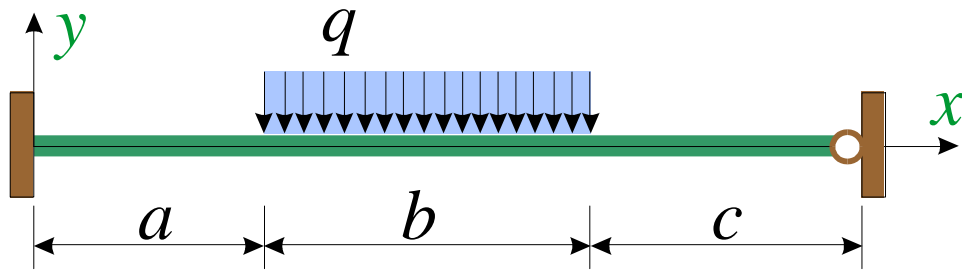
$$b := 5\text{m}$$

$$c := 0\text{m}$$

$$L := a + b + c = 7\text{m}$$

$$\xi_1 := \frac{a}{L} = 0.285714$$

$$\xi_2 := \frac{a+b}{L} = 1$$



$$G0010(\xi) := \frac{\xi^2}{2} \cdot (3 - \xi)$$

Równanie pracy wirtualnej

$$R \cdot 1 - q \cdot L \cdot \int_{\xi_1}^{\xi_2} G0010(\xi) d\xi = 0$$

$$\underline{G0010(\xi)}$$

$$R := q \cdot L \cdot \int_{\xi_1}^{\xi_2} G0010(\xi) d\xi = 12.745991 \cdot \text{kN}$$

$$R = 12.7 \cdot \text{kN}$$

