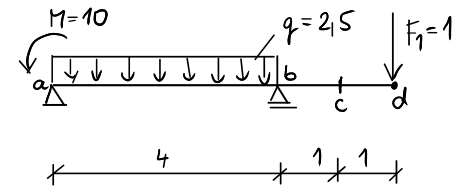


$$[m, kN/m]$$

$$E = 60 \text{ GPa}$$

$$I = 7,2 \cdot 10^{-4} \text{ m}^4$$

$$W_c = ?$$

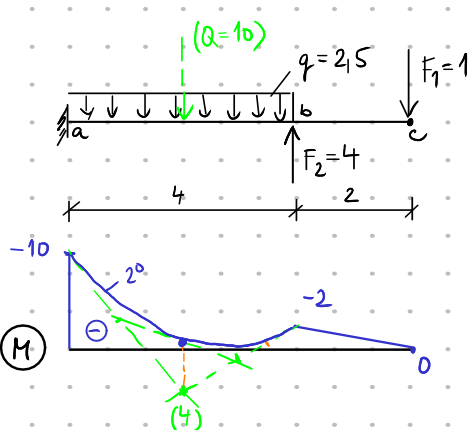
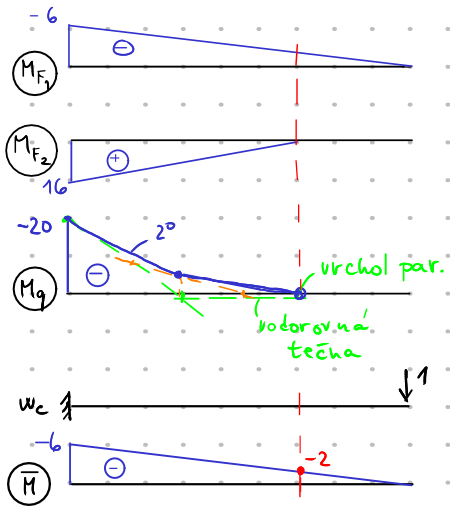
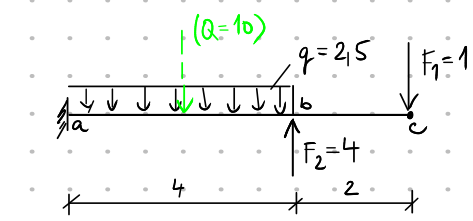


$$[m, kN/m]$$

$$E = 60 \text{ GPa}$$

$$I = 7,2 \cdot 10^{-4} \text{ m}^4$$

$$W_c = ?$$

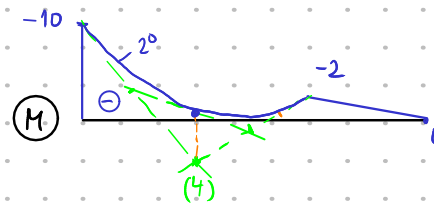
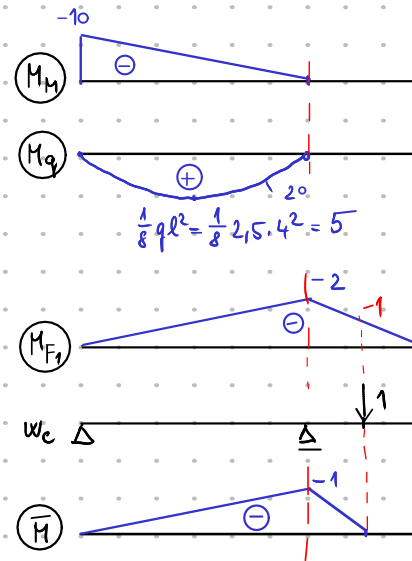
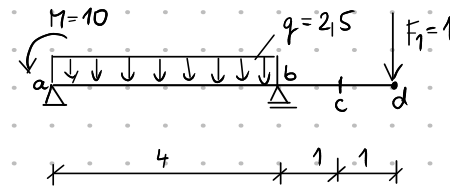


$[m, kN/m]$
 $E = 60 \text{ GPa}$
 $I = 72 \cdot 10^{-4} \text{ m}^4$
 $W_c = ?$

$$w_c = \frac{1}{EI} \int M \bar{M} dx =$$

$$= \frac{1}{EI} \left[+ \frac{1}{2} \cdot 6 \cdot 6 \cdot \left(\frac{2}{3} \cdot 6 \right) - \frac{1}{2} \cdot 16 \cdot 4 \cdot \left(\frac{1}{3} \cdot 2 + \frac{2}{3} \cdot 6 \right) + \frac{1}{3} \cdot 20 \cdot 4 \cdot \left(\frac{1}{4} \cdot 2 + \frac{3}{4} \cdot 6 \right) \right] = \frac{56}{EI} =$$

$$= \frac{56}{60 \cdot 10^6 \cdot 72 \cdot 10^{-4}} = 1,296 \cdot 10^{-3} \text{ m}$$



$[m, kN/m]$
 $E = 60 \text{ GPa}$
 $I = 72 \cdot 10^{-4} \text{ m}^4$
 $W_c = ?$

$$w_c = \frac{1}{EI} \int M \bar{M} dx =$$

$$= \frac{1}{EI} \left[+ \frac{1}{2} \cdot 10 \cdot 4 \cdot \left(\frac{1}{3} \cdot 1 \right) - \frac{2}{3} \cdot 4 \cdot 5 \cdot \left(\frac{1}{2} \cdot 1 \right) + \frac{1}{2} \cdot 4 \cdot 2 \cdot \left(\frac{2}{3} \cdot 1 \right) + \frac{1}{2} \cdot 1 \cdot 1 \cdot \left(\frac{1}{3} \cdot 1 + \frac{2}{3} \cdot 2 \right) \right]$$

$$= \frac{3,5}{EI} = \frac{3,5}{60 \cdot 10^6 \cdot 72 \cdot 10^{-4}} = 8,102 \cdot 10^{-5} \text{ m}$$