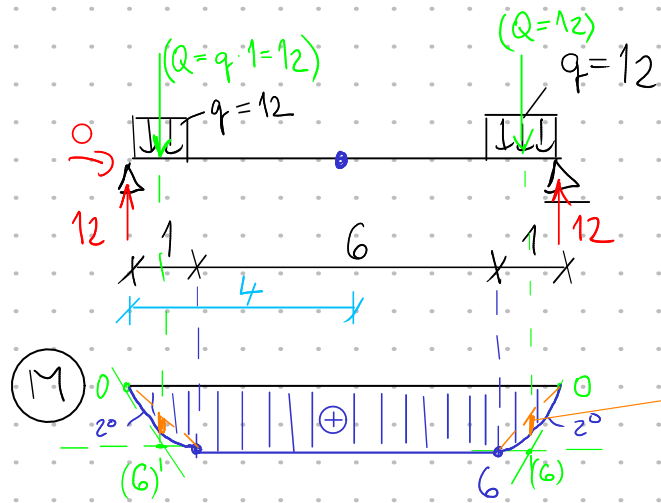
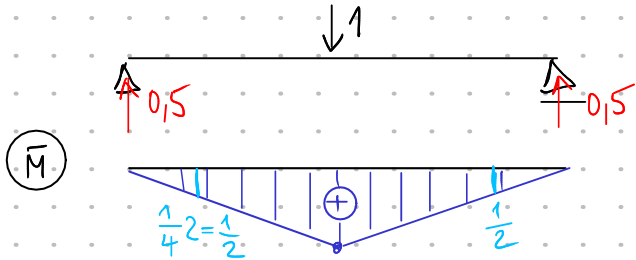




$$EI = 10800 \text{ kPa m}^4$$

$$w(x = \frac{l}{2}) = ?$$

$$f = \frac{1}{8} q l^2 = \frac{1}{8} \cdot 12 \cdot 1^2 = 1,5$$

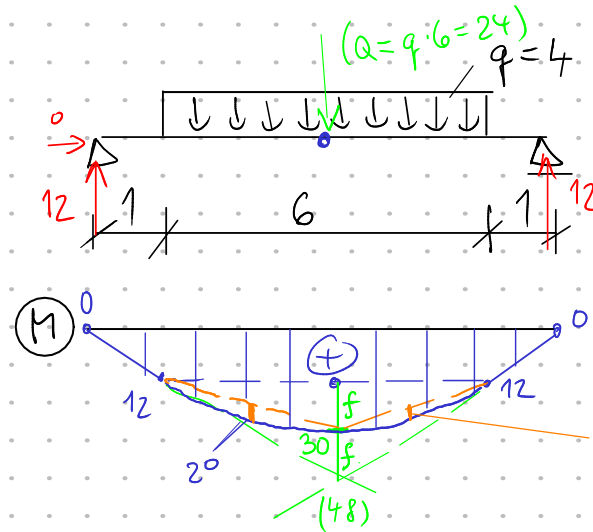


$$w(x = \frac{l}{2}) = \frac{1}{EI} \int M \bar{M} dx = \frac{1}{EI} \left[+ \left(\frac{2}{3} \cdot 1 \cdot 6 \right) \cdot \left(\frac{5}{8} \cdot \frac{1}{2} \right) + \left(\frac{\frac{1}{2} + 2}{2} \cdot 3 \right) \cdot (6) \right] \cdot 2 =$$

$$= \frac{47,5}{EI} = \underline{\underline{4,398 \cdot 10^{-3} \text{ m}}}$$

$$w(x = \frac{l}{2}) = \frac{1}{EI} \left[+ \left(\frac{1}{2} \cdot 6 \cdot 1 \right) \cdot \left(\frac{2}{3} \cdot \frac{1}{2} \right) + \left(\frac{2}{3} \cdot 1 \cdot 1,5 \right) \cdot \left(\frac{1}{2} \cdot \frac{1}{2} \right) + \left(\frac{\frac{1}{2} + 2}{2} \cdot 3 \right) \cdot (6) \right] \cdot 2 =$$

$$= \frac{47,5}{EI} \checkmark$$

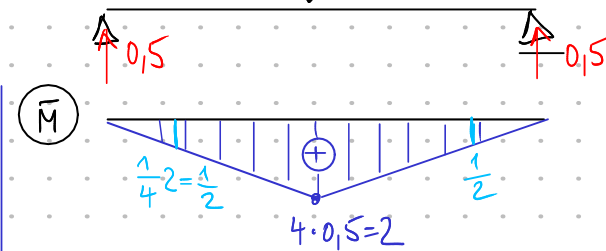


$$EI = 10800 \text{ kPa m}^4$$

$$w(x = \frac{l}{2}) = ?$$

$$f = \frac{1}{8} q l^2 = \frac{1}{8} \cdot 4 \cdot 6^2 = 18$$

$$f = \frac{1}{8} q l^2 = \frac{1}{8} \cdot 4 \cdot 3^2 = 4,5$$



$$w(x = \frac{l}{2}) = \frac{1}{EI} \left[+ \left(\frac{1}{2} \cdot 12 \cdot 1 \right) \cdot \left(\frac{2}{3} \cdot \frac{1}{2} \right) + \left(\frac{(\frac{1}{2} + 2)}{2} \cdot 3 \right) \cdot (12) + \left(\frac{2}{3} \cdot 3 \cdot 18 \right) \cdot \left(\frac{5}{8} \cdot 2 + \frac{3}{8} \cdot \frac{1}{2} \right) \right] \cdot 2 =$$

$$= \frac{194,5}{EI} = \underline{\underline{0,0183 \text{ m}}}$$

$$w(x = \frac{l}{2}) = \frac{1}{EI} \left[+ \left(\frac{1}{2} \cdot 12 \cdot 1 \right) \cdot \left(\frac{2}{3} \cdot \frac{1}{2} \right) + \left(\frac{(\frac{1}{2} + 2)}{2} \cdot 3 \right) \cdot (12) + \left(\frac{1}{2} \cdot 3 \cdot 18 \right) \cdot \left(\frac{1}{3} \cdot \frac{1}{2} + \frac{2}{3} \cdot 2 \right) + \right.$$

$$\left. + \left(\frac{2}{3} \cdot 4,5 \cdot 3 \right) \cdot \left(\frac{1}{2} + 2 \right) \right] \cdot 2 = \frac{194,5}{EI} \checkmark$$