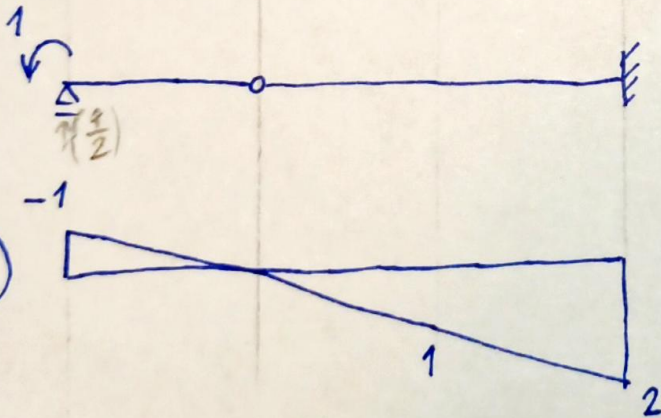
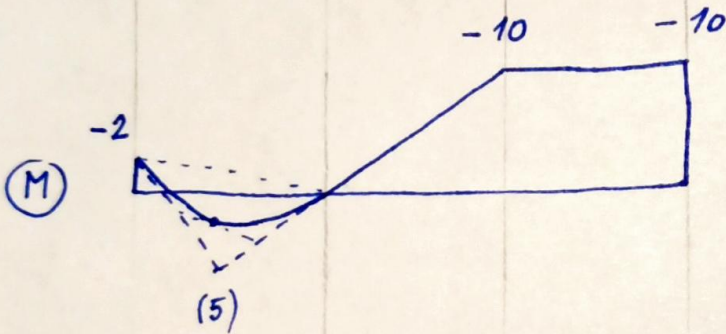
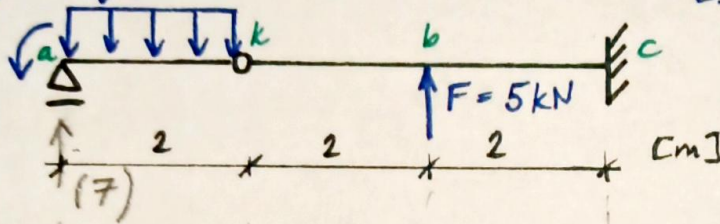


$$M = 2 \text{ kNm} \quad q = 6 \text{ kN/m}$$

$$\varphi_a = ?$$

$$EI = \text{konst.}$$



$$\varphi_a = \frac{1}{EI} \left\{ \left( \frac{1}{2} \cdot 2 \cdot (-2) \right) \cdot \left[ \frac{2}{3} (-1) \right] + \left( \frac{2}{3} \cdot 2 \cdot 3 \right) \cdot \left[ \frac{1}{2} (-1) \right] + \right.$$

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

$$= \frac{-112}{3EI} \text{ [rad]}$$