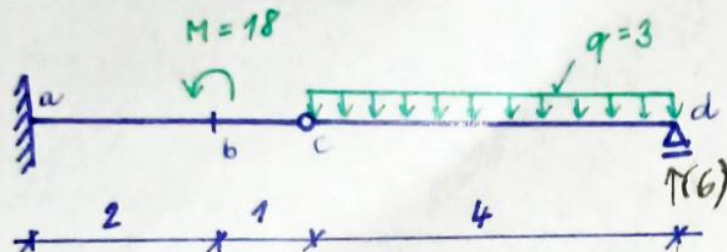
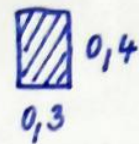


urichte w_b a φ_d

$$E = 20 \text{ GPa}$$



[kN, m, ...]

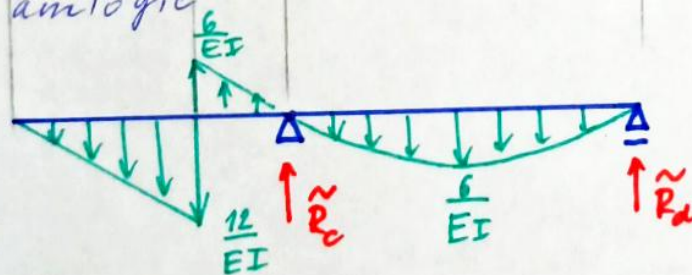
$$EI = 20 \cdot 10^6 \cdot \frac{1}{12} \cdot 0.3 \cdot 0.4^3$$

$$EI = 32000 \text{ kPa} \cdot \text{m}^4$$

$$\begin{aligned} \underline{\underline{w_b}} &= \tilde{M}_b = -\frac{1}{2} \cdot 2 \cdot \frac{12}{EI} \cdot \frac{1}{3} \cdot 2 = \\ &= -\frac{1}{2} \cdot 2 \cdot \frac{12}{32000} \cdot \frac{1}{3} \cdot 2 = \underline{\underline{-2.5 \cdot 10^{-4} \text{ m}}} \end{aligned}$$

$$\underline{\underline{\varphi_d}} = \tilde{V}_d = -\tilde{R}_d = \underline{\underline{-1.09375 \cdot 10^{-4} \text{ rad}}}$$

Mohr's analogie:



$$\oplus \sum \tilde{M}_{ic} = 0$$

$$\begin{aligned} &\frac{1}{2} \cdot \frac{12}{EI} \cdot 2 \cdot \left(1 + \frac{1}{3} \cdot 2\right) - \frac{1}{2} \cdot \frac{6}{EI} \cdot 1 \cdot \frac{2}{3} \cdot 1 - \\ &- \frac{2}{3} \cdot \frac{6}{EI} \cdot 4 \cdot 2 + \tilde{R}_d \cdot 4 = 0 \end{aligned}$$

$$\underline{\underline{\tilde{R}_d = 1.09375 \cdot 10^{-4} \text{ [rad]}}}$$