

$$R_A = q_1 l_1 / 2 + M_B / l_1 = 15 \frac{\text{kN}}{\text{m}} \cdot 3\text{m} / 2 - 55,16 \text{ kNm} / 3\text{m} \approx 4,11 \text{ kN}$$

$$R_B = q_1 l_1 / 2 - M_B / l_1 = 15 \frac{\text{kN}}{\text{m}} \cdot 3\text{m} / 2 + 55,16 \text{ kNm} / 3\text{m} \approx 40,89 \text{ kN}$$

Verificación:

$$4,11 + 40,89 = 15 \cdot 3 \quad \text{OK}$$

$$Q_{ad} = 4,11 \text{ kN}; \quad Q_{Biz} = -40,89 \text{ kN}$$

$$M_{T_1} = \frac{Q_{ad}^2}{2q_1} = \frac{4,11^2 \text{ kN}^2}{2 \cdot 15 \frac{\text{kN}}{\text{m}}} = 0,56 \text{ kNm}$$

$$l_0 = 2R_A / q_1 = 2 \cdot 4,11 \text{ kN} / 15 \frac{\text{kN}}{\text{m}} \approx 0,55 \text{ m}$$

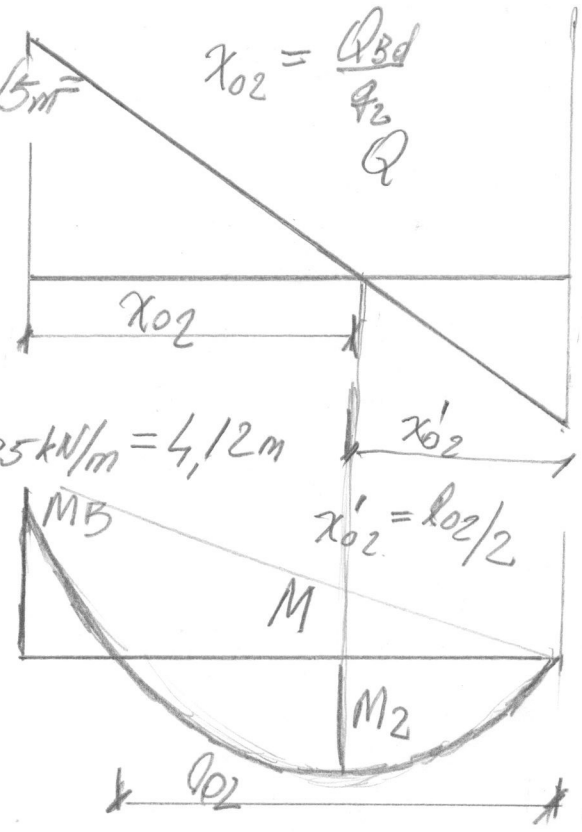
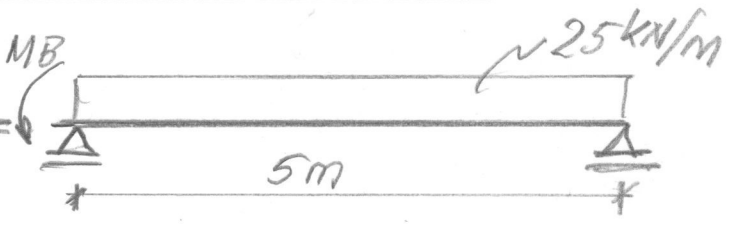
T. 2

$$R_{Bd} = q_2 l_2 / 2 - M_B / l_2 = 25 \frac{\text{kN}}{\text{m}} \cdot 5\text{m} / 2 + 55,16 \text{ kNm} / 5\text{m} = 73,53 \text{ kN} = Q_{Bd}$$

$$R_C = q_2 l_2 / 2 + M_B / l_2 = 25 \frac{\text{kN}}{\text{m}} \cdot 5\text{m} / 2 - 55,16 \text{ kNm} / 5\text{m} = 51,47 \text{ kN} = -Q_{Ciz}$$

$$M_{T_2} = \frac{R_C^2}{2q_2} = \frac{51,47^2 \text{ kN}^2}{2 \cdot 25 \frac{\text{kN}}{\text{m}}} = 52,98 \text{ kNm}$$

$$l_{02} = 2R_C / q_2 = 2 \cdot 51,47 \text{ kN} / 25 \frac{\text{kN}}{\text{m}} = 4,12 \text{ m}$$



También $M_{T_2} = R_{Bd}^2 / (2q_2) + M_B$