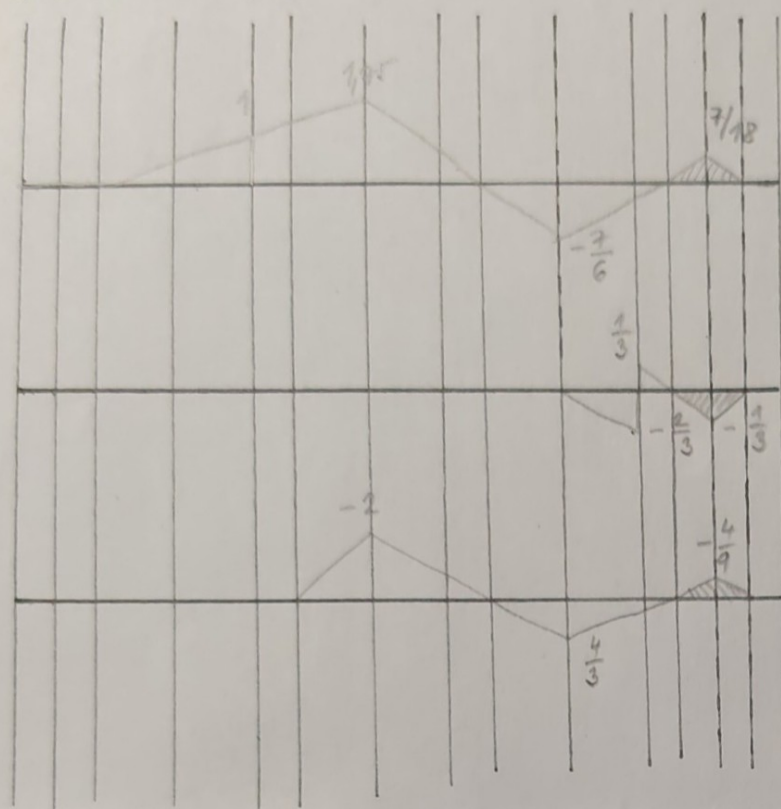
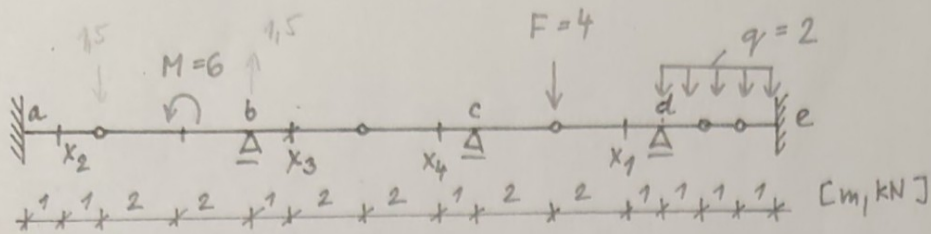




R_b

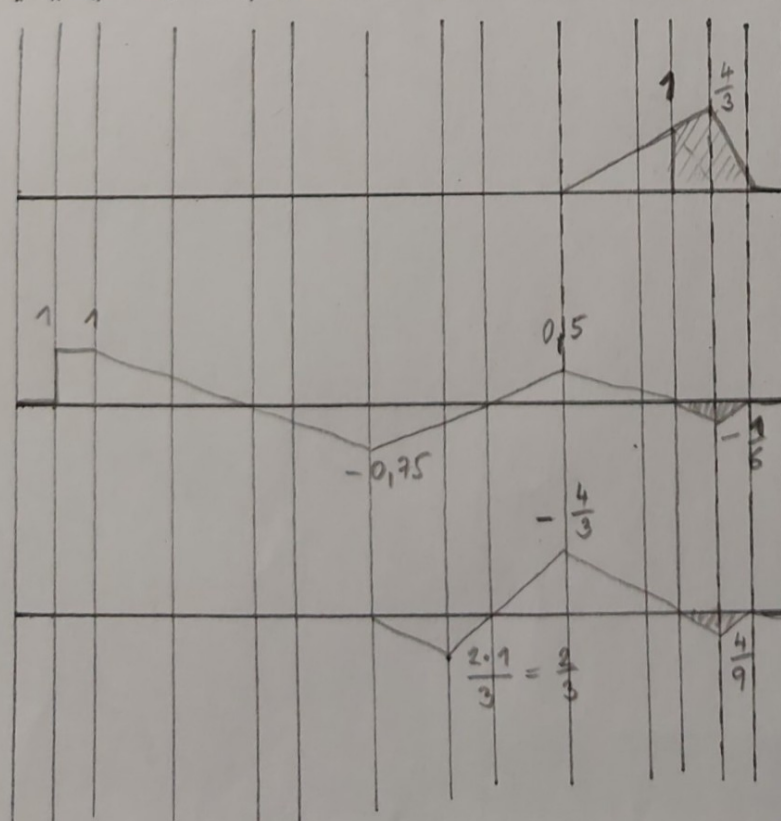
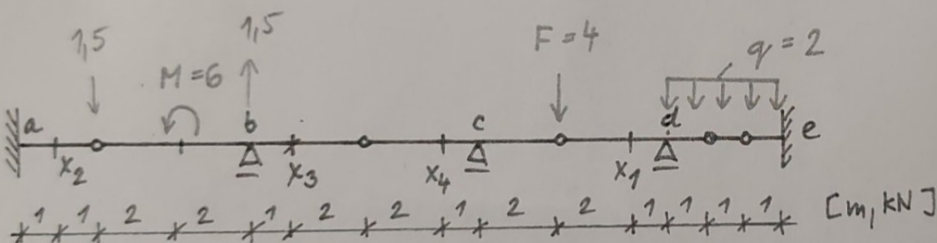
$$R_b = -15 \cdot 1 + 4 \cdot \left(-\frac{2}{6}\right) + 2 \cdot \frac{1}{2} \cdot \frac{2}{18} \cdot 2 = -\frac{97}{18} = \underline{\underline{-5,38 \text{ kN}}}$$

V_{x_1}

$$V_{x_1} = 2 \cdot \frac{1}{2} \cdot \left(-\frac{1}{3}\right) \cdot 2 = -\frac{2}{3} = \underline{\underline{-0,6 \text{ kN}}}$$

M_{x_3}

$$M_{x_3} = 4 \cdot \frac{4}{3} + 2 \cdot \frac{1}{2} \cdot \left(-\frac{4}{9}\right) \cdot 2 = \frac{40}{9} \text{ kNm}$$



R_d

$$R_d = 2 \cdot \left[\frac{1}{2} \cdot 1 \cdot 1 + \frac{1}{2} \cdot \frac{4}{3} \cdot 1 + \frac{1}{2} \cdot \frac{4}{3} \cdot 1 \right] = \frac{11}{3} = \underline{\underline{3,6 \text{ kN}}}$$

V_{x_2}

$$V_{x_2} = 15 \cdot 1 + 4 \cdot 0,5 + 2 \cdot \frac{1}{2} \cdot \left(-\frac{1}{6}\right) \cdot 2 = \frac{19}{6} = \underline{\underline{3,16 \text{ kN}}}$$

M_{x_4}

$$M_{x_4} = 4 \cdot \left(-\frac{4}{3}\right) + 2 \cdot \frac{1}{2} \cdot \frac{4}{9} \cdot 2 = -\frac{40}{9} = \underline{\underline{-4,4 \text{ kNm}}}$$