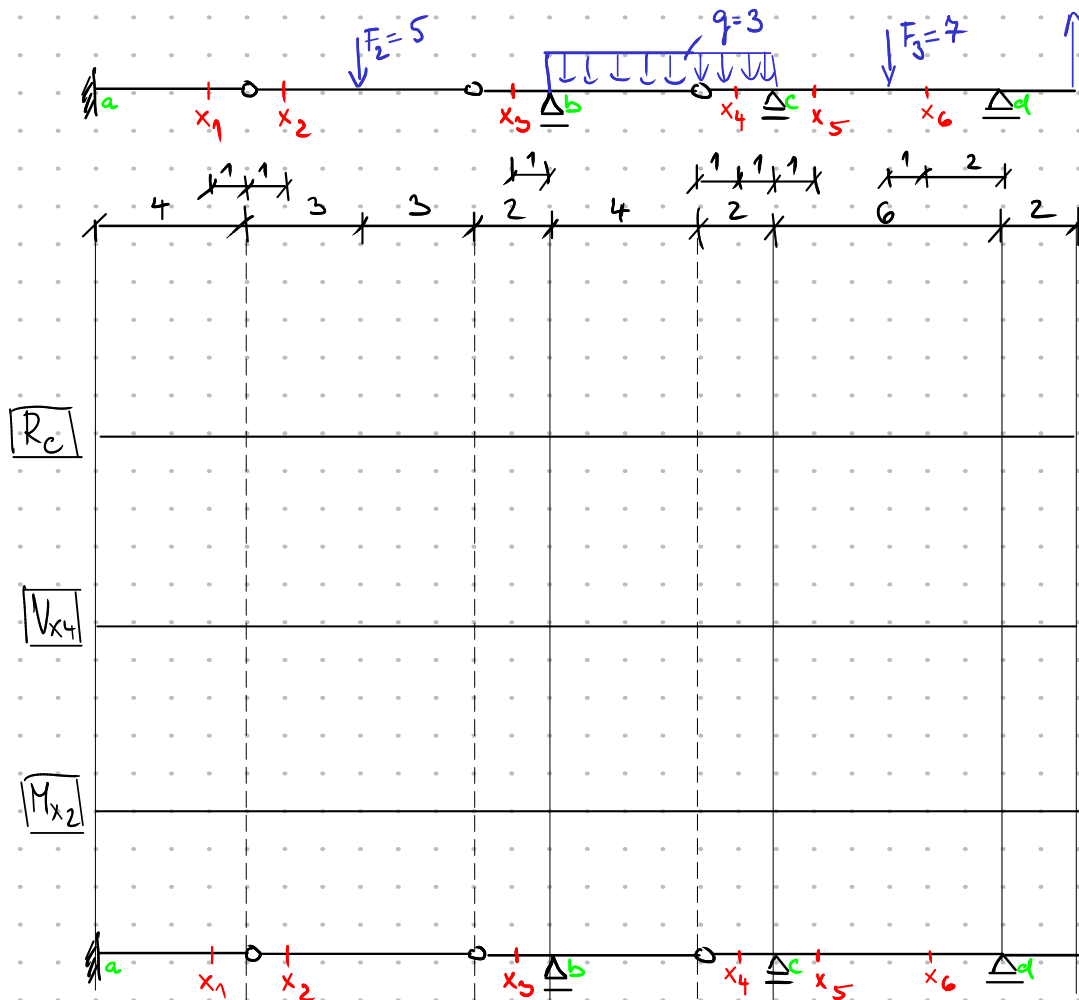
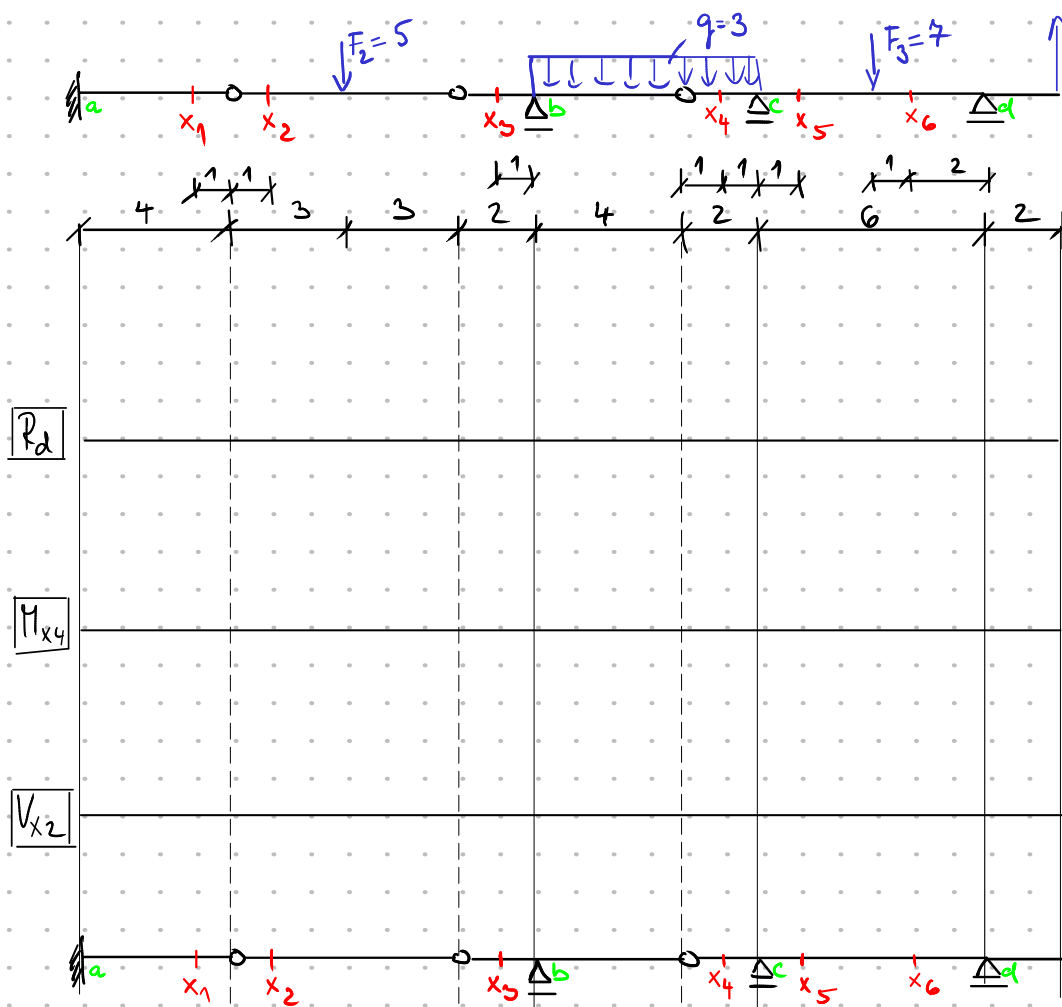
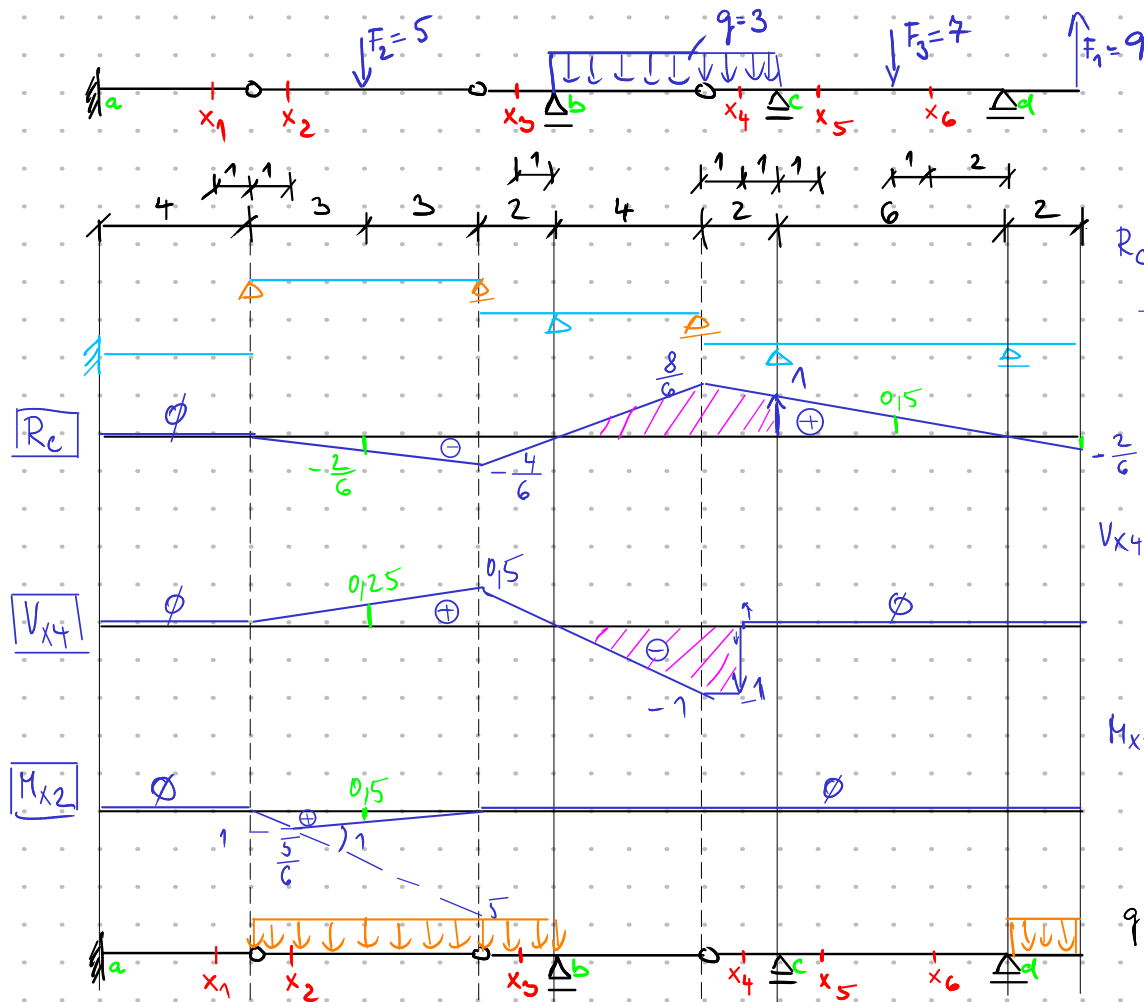




q libovolné délky, aby R_c bylo minimální



q libovolné délky, aby R_d bylo maximální

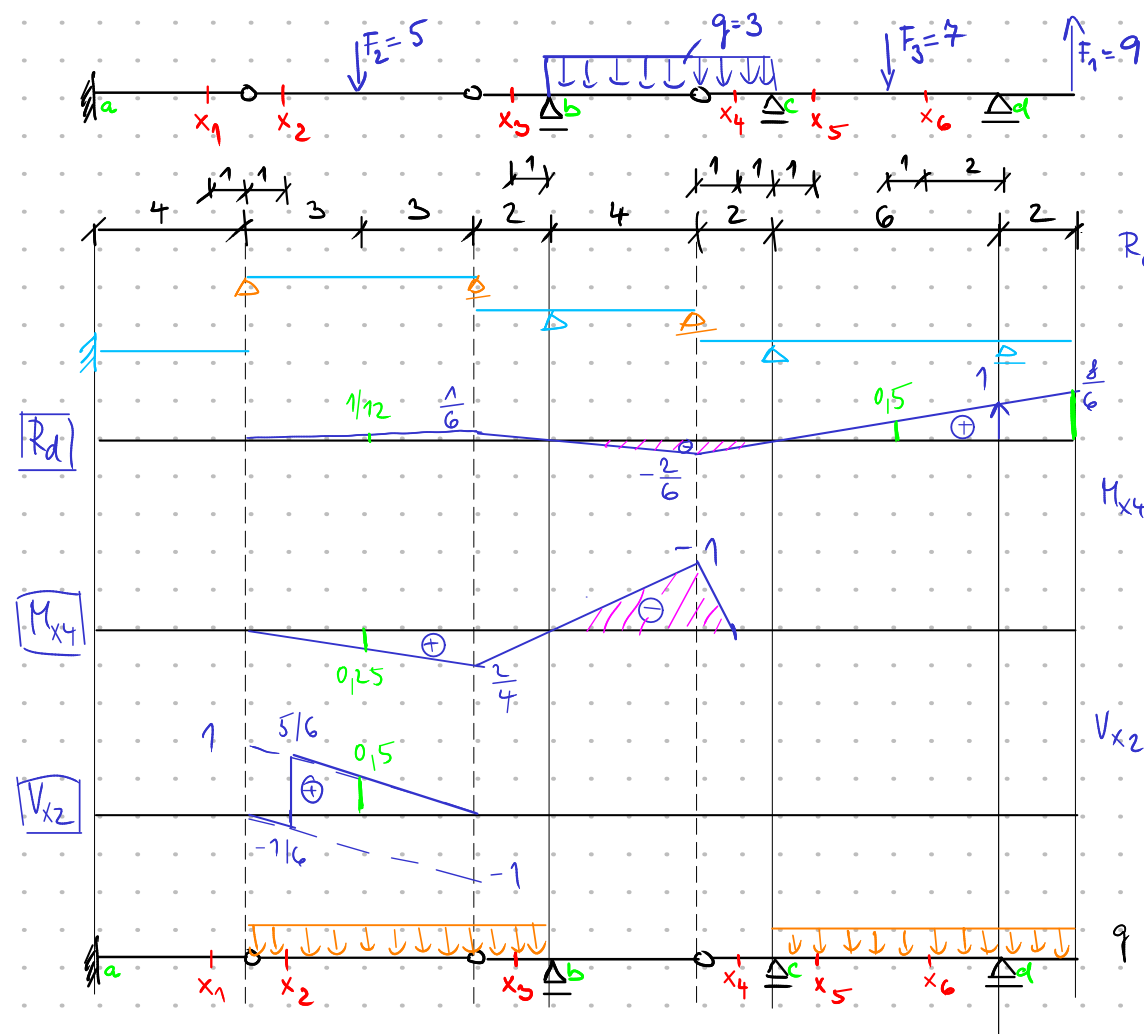


$$R_c = F_2 \left(-\frac{2}{6}\right) + F_3 \cdot 0.5 - F_1 \left(-\frac{2}{6}\right) + \left[\frac{1}{2} \cdot \frac{8}{6} \cdot 4 + \frac{\frac{8}{6} + 1}{2} \cdot 2\right] \cdot q = \underline{\underline{19.83 \text{ kN}}}$$

$$V_{x4} = F_2 \cdot 0.25 + q \cdot \left[\frac{1}{2}(-1) \cdot 4 + 1 \cdot (-1)\right] = \underline{\underline{-7.75 \text{ kN}}}$$

$$M_{x2} = F_2 \cdot 0.5 = \underline{\underline{2.5 \text{ kNm}}}$$

q libovolné délky, aby R_c bylo minimální



$$R_d = F_2 \left(\frac{1}{12}\right) + F_3 \cdot 0.5 - F_1 \frac{8}{6} + q \cdot \left(\frac{1}{2} \left(-\frac{2}{6}\right) \cdot 6\right) = \underline{\underline{-11.083 \text{ kN}}}$$

$$M_{x4} = F_2 \cdot 0.25 + q \cdot \frac{1}{2}(-1) \cdot 5 = \underline{\underline{-6.25 \text{ kNm}}}$$

$$V_{x2} = F_2 \cdot 0.5 = \underline{\underline{2.5 \text{ kN}}}$$

q libovolné délky, aby R_d bylo maximální