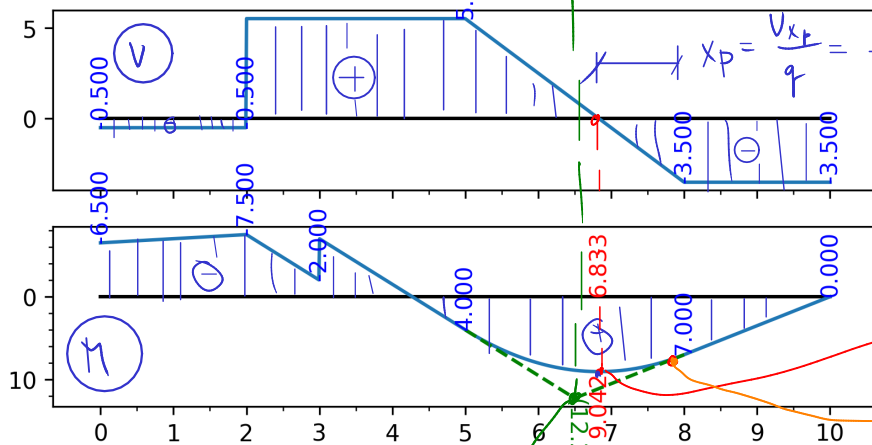
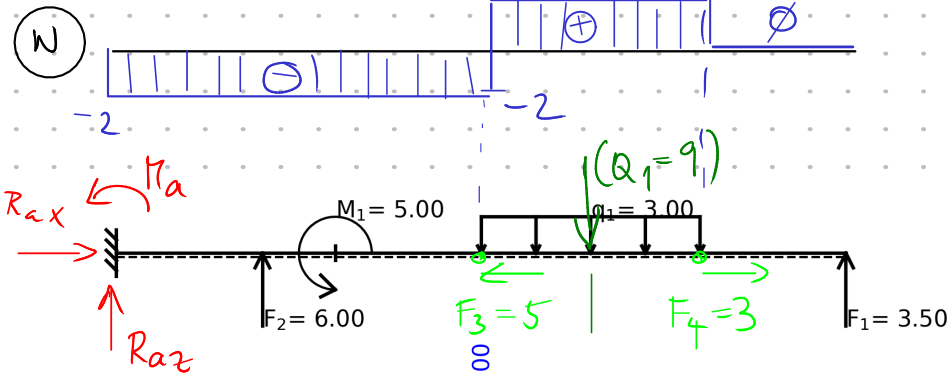
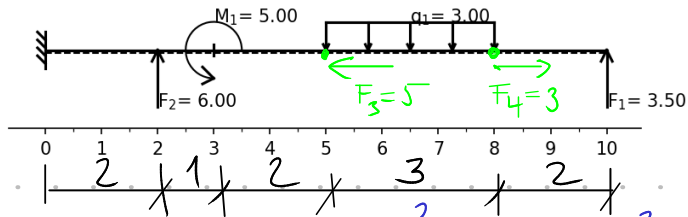




$$F_1 \cdot 3,5 = 12,25 \text{ kNm}$$

Reakce!

$$\sum F_{xi} = 0 \oplus \rightarrow R_{ax} - F_3 + F_4 = 0 \Rightarrow R_{ax} = F_3 - F_4 = \underline{2 \text{ kN}}$$

$$\sum F_{zi} = 0 \oplus \uparrow R_{az} + F_2 - q_1 \cdot 3 + F_1 = 0$$

$$R_{az} = \underline{-0,5 \text{ kN}}$$

$$\sum M_{ai} = 0 \oplus \curvearrowright$$

$$M_a + F_2 \cdot 2 + M_1 - q_1 \cdot 3 \cdot 6,5 + F_1 \cdot 10 = 0$$

$$M_a = \underline{6,5 \text{ kNm}}$$

kontrola: $\sum M(x=5) = 0 \oplus \curvearrowright$

$$M_a - R_{az} \cdot 5 - F_2 \cdot 3 + M_1 - q_1 \cdot 3 \cdot 1,5 + F_1 \cdot 5 = 0 \checkmark$$

$$M_P^P = F_1(x_P + 2) - q_1 \cdot \frac{x_P^2}{2} = \underline{9,0416 \text{ kNm}}$$

$$M_P^P = M_{\text{pred}} - \int_{x_P} V dx = 7 - \frac{1}{2}(-3,5)x_P = \underline{9,0416 \text{ kNm}}$$