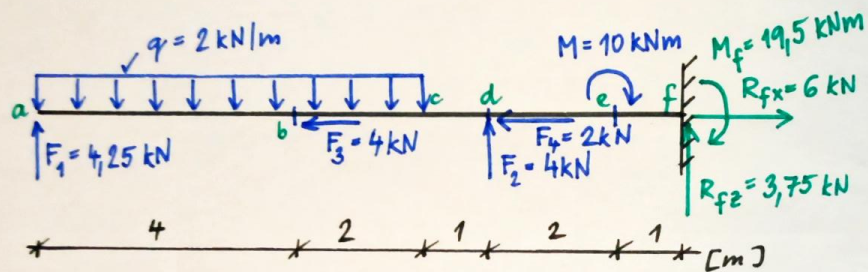


(2a)

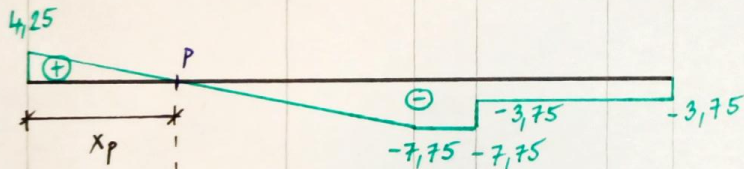
JMĚNO: Jt 800



(N)



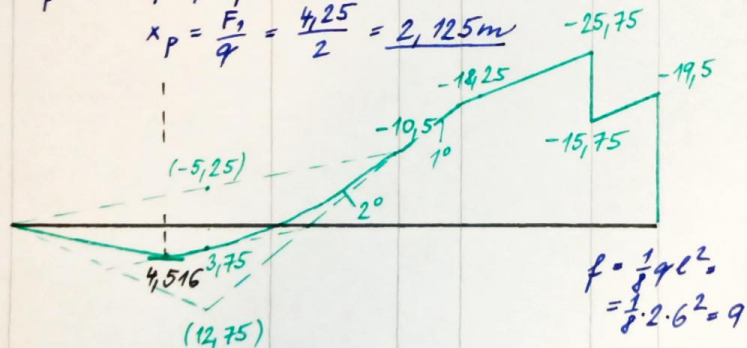
(V)



$$V_P^L = 0: F_1 - q \cdot x_P = 0$$

$$x_P = \frac{F_1}{q} = \frac{4,25}{2} = 2,125 \text{ m}$$

(M)



$$f = \frac{1}{8} q l^2$$

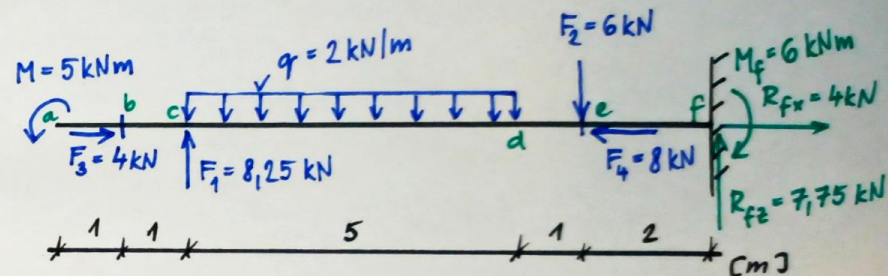
$$= \frac{1}{8} \cdot 2 \cdot 6^2 = 9$$

$$VTP^L = F_1 \cdot 3 = 4,25 \cdot 3 = 12,75$$

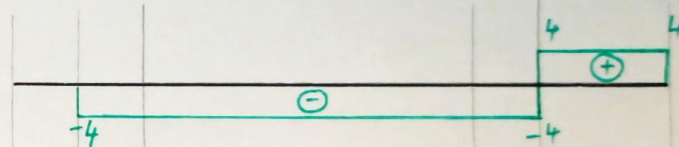
$$M_{max}^L = F_1 \cdot x_P - q \cdot x_P \cdot \frac{x_P}{2} = 4,25 \cdot 2,125 - 2 \cdot \frac{2,125^2}{2} = 4,515625 \text{ kNm}$$

(2b)

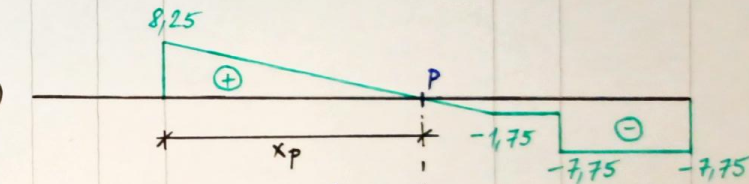
JMĚNO: Jt 800



(N)



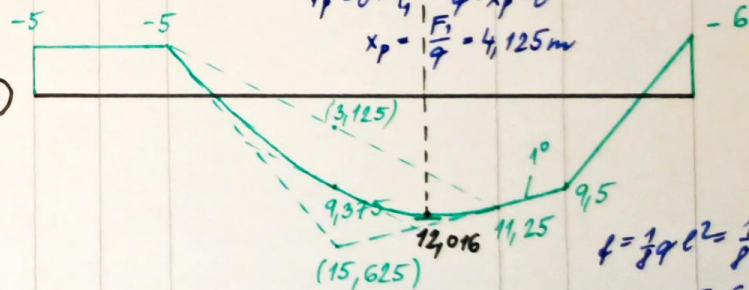
(V)



$$V_P^L = 0: F_1 - q \cdot x_P = 0$$

$$x_P = \frac{F_1}{q} = 4,125 \text{ m}$$

(M)



$$f = \frac{1}{8} q l^2 = \frac{1}{8} \cdot 2 \cdot 5^2 = 6,25$$

$$M_{max}^L = -M + F_1 \cdot x_P - q \cdot x_P \cdot \frac{x_P}{2} =$$

$$= -5 + 8,25 \cdot 4,125 - 2 \cdot \frac{4,125^2}{2} = 12,015625 \text{ kNm}$$