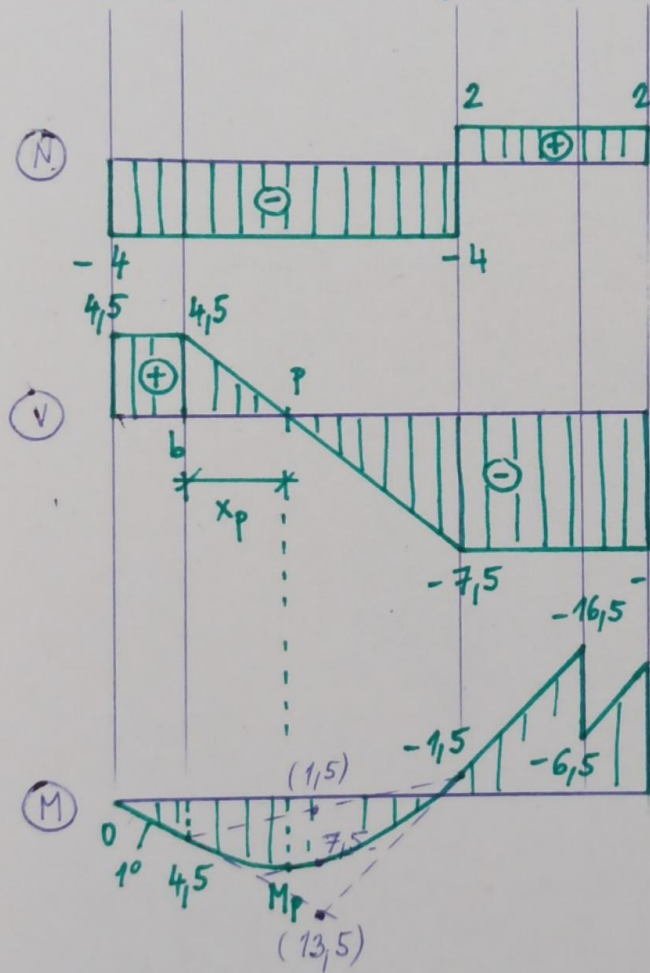
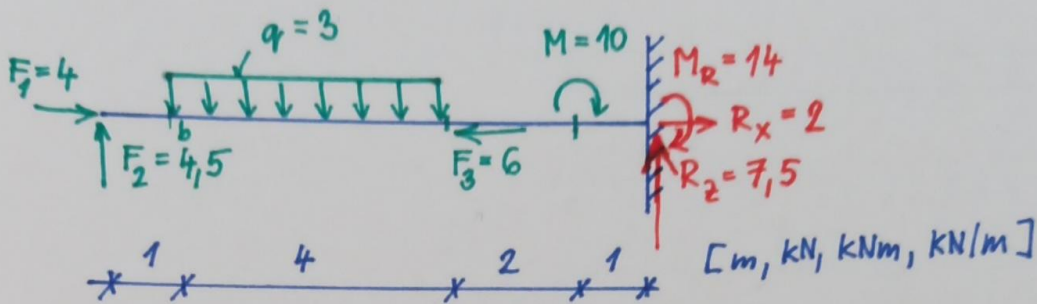




$$V_p^L = 0:$$

$$F_2 - q \cdot x_p = 0$$

$$4,5 - 3 \cdot x_p = 0$$

$$\underline{x_p = 1,5 \text{ m}}$$

$$(VTP) = 4,5 \cdot 3 = 13,5$$

$$\phi = \frac{1}{8} \cdot 3 \cdot 4^2 = 6$$

$$\begin{aligned}
 M_p &= F_2 \cdot (1 + x_p) - q \cdot x_p \cdot \frac{x_p}{2} = \\
 &= 4,5 \cdot 2,5 - 3 \cdot \frac{1,5^2}{2} = \\
 &= \underline{7,875 \text{ kNm}}
 \end{aligned}$$

nebo

$$\begin{aligned}
 M_p &= M_b + \int_b^p V dx \\
 &= 4,5 + \frac{1}{2} \cdot 4,5 \cdot 1,5 = \underline{7,875 \text{ kNm}}
 \end{aligned}$$