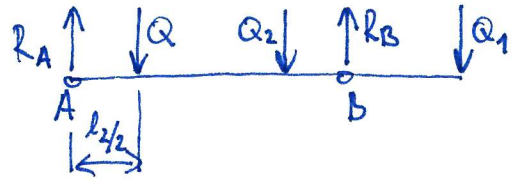


1) Reakce



$$Q = q \cdot l_2$$

$$\sum F_y: R_A - Q - Q_2 + R_B - Q_1 = 0$$

$$\sum M_A: -Q \cdot \frac{l_2}{2} - Q_2(l - l_3) + R_B l - Q(l + l_1) = 0$$

$\rightarrow R_A, R_B$

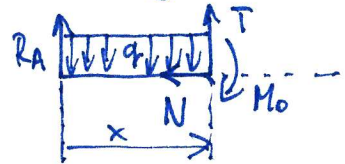
2) Vnitřní silové účinky

a) $0 < x < l_2$

$$N = 0$$

$$T = R_A - q \cdot x$$

$$M_0 = R_A x - q \cdot x \cdot \frac{x}{2}$$

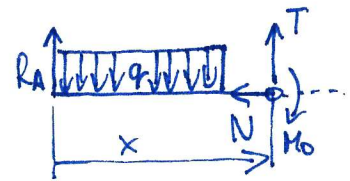


b) $l_2 < x < l - l_3$

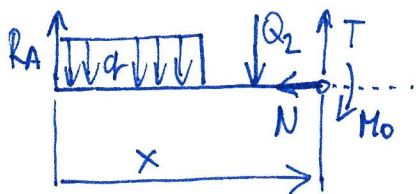
$$N = 0$$

$$T = R_A - q \cdot l_2$$

$$M_0 = R_A \cdot x - q \cdot l_2 \cdot (x - \frac{l_2}{2})$$



c) $l - l_3 < x < l$

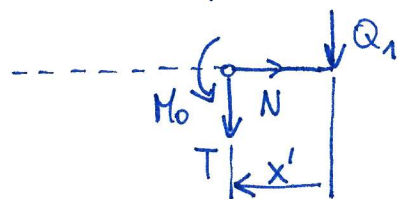


$$N = 0$$

$$T = R_A - q \cdot l_2 - Q_2$$

$$M_0 = R_A \cdot x - q \cdot l_2 (x - \frac{l_2}{2}) - Q_2 (x - (l - l_3))$$

d) $0 < x' < l_1$



$$N = 0$$

$$T = Q_1$$

$$M_0 = -Q_1 x'$$