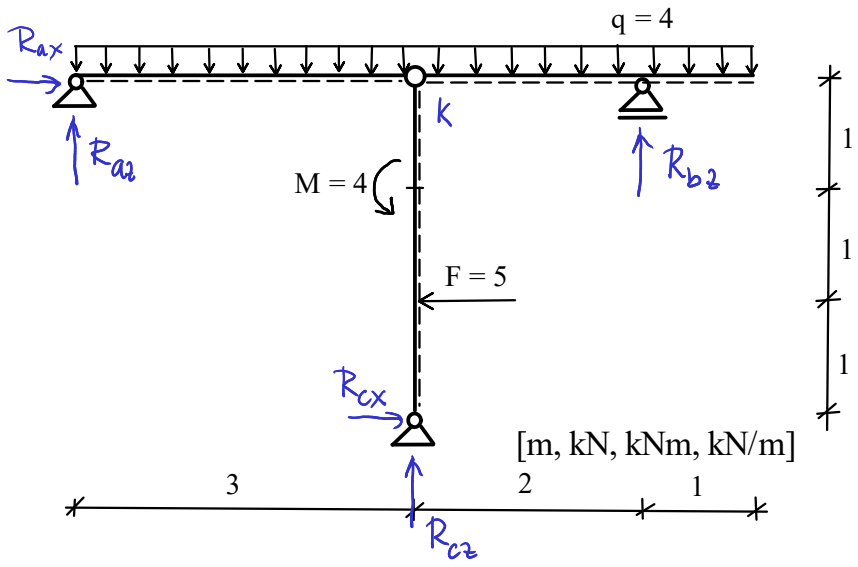


$\Sigma M_{iK}^{P} = 0 \circlearrowleft(+)$:

$R_{bz} \cdot 2 - q \cdot 3 \cdot 1{,}5 = 0$

$R_{bz} = \frac{4 \cdot 3 \cdot 1{,}5}{2} = 9\,kN$

$\Sigma M_{iK}^{L} = 0 \quad \circlearrowleft(+)$:

$-R_{az} \cdot 3 + q \cdot 3 \cdot 1{,}5 = 0$

$R_{az} = \frac{4 \cdot 3 \cdot 1{,}5}{3} = 6\,kN$

$\Sigma M_{iK}^{zespod} = 0 \quad \circlearrowleft(+)$:

$R_{cx} \cdot 3 - F \cdot 2 + M = 0$

$R_{cx} = \frac{5 \cdot 2 - 4}{3} = 2\,kN$

$\Sigma F_{ix} = 0 \rightarrow(+)$:

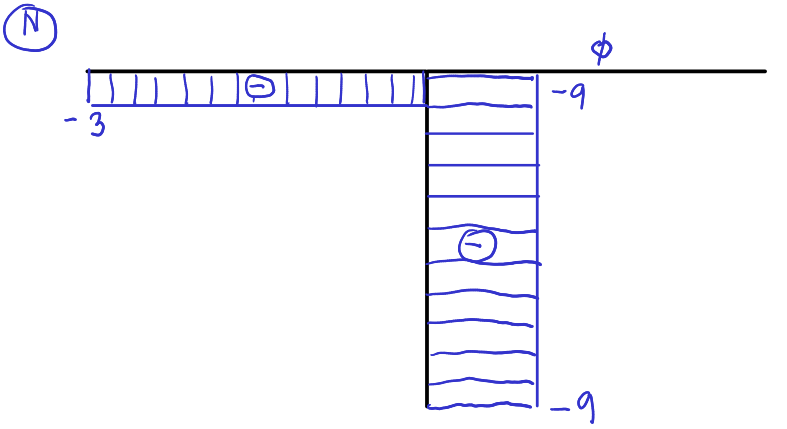
$R_{ax} - F + R_{cx} = 0$

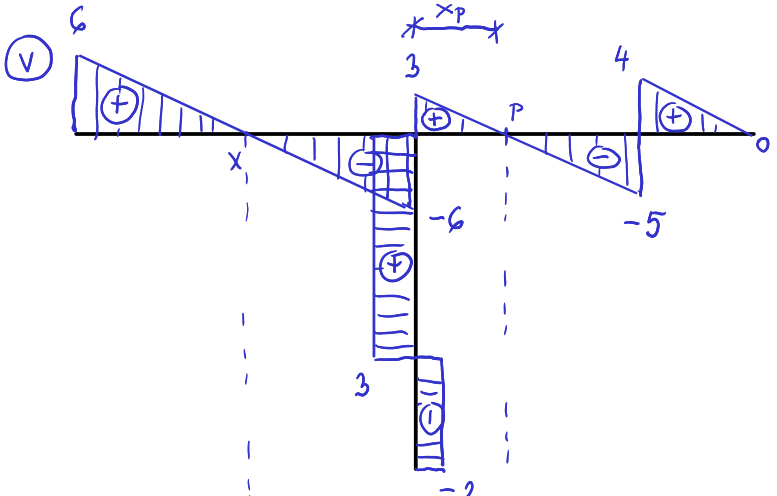
$R_{ax} = 5 - 2 = 3\,kN$

$\Sigma F_{iz} = 0 \uparrow(+)$

$R_{az} - q \cdot 6 + R_{bz} + R_{cz} = 0$

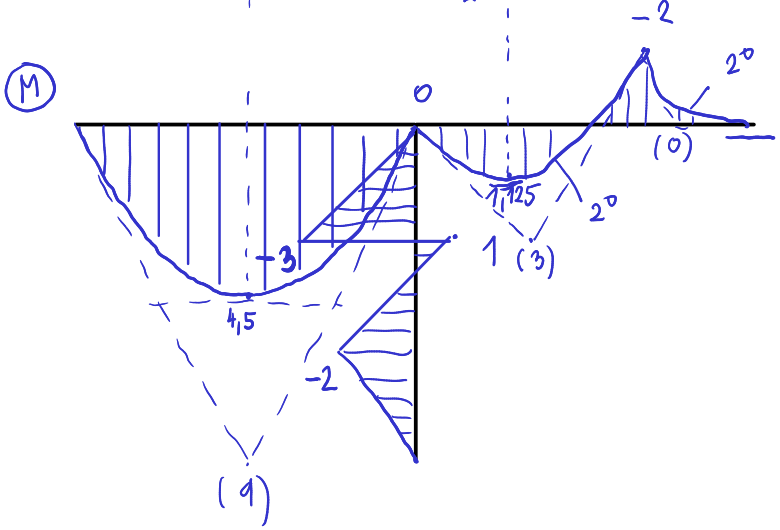
$R_{cz} = -6 + 4 \cdot 6 - 9 = 9\,kN$





$x_p = \frac{3}{4} = 0{,}75\,m$

$M_p = 0 + \frac{1}{2} \cdot 3 \cdot 0{,}75 = 1{,}125\,kNm$



$M_x = \frac{1}{8} q l^2 = \frac{1}{8} \cdot 4 \cdot 3^2 = 4{,}5\,kNm$