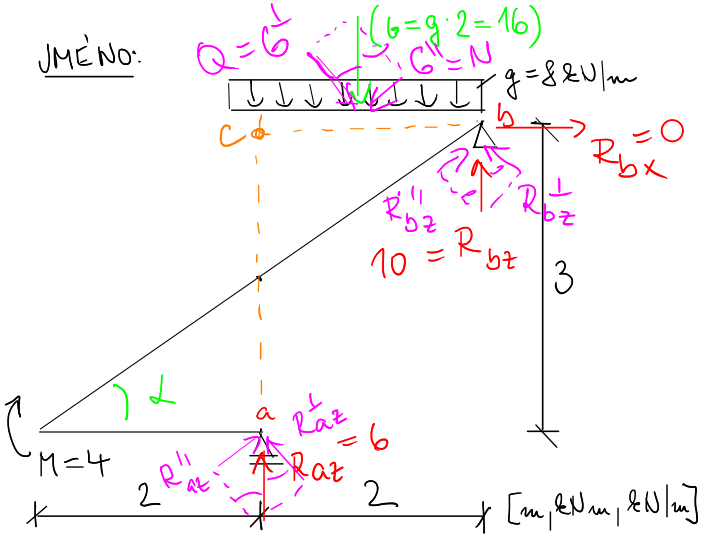
JMÉNO:



$l = 5\ m$

$\sin\alpha = \frac{3}{5}$

$\cos\alpha = \frac{4}{5}$

$\sum F_{xi} = 0: \quad R_{bx} = 0$

$\oplus \sum M_{bi} = 0: \quad M + R_{az}\cdot 2 - 6\cdot 1 = 0 \Rightarrow R_{az} = 6\ kN$

$\circlearrowleft\oplus \sum M_{ci} = 0: \quad -M - 6\cdot 1 + R_{bz}\cdot 2 = 0 \Rightarrow R_{bz} = 10\ kN$

$\oplus\uparrow \sum F_{zi} = 0: \quad R_{az} + R_{bz} - 6 = 0$ ✓

$R^{\perp}_{bz} = R_{bz}\cdot\cos\alpha = 10\cdot\frac{4}{5} = 8\ kN$

$R''_{bz} = R_{bz}\cdot\sin\alpha = 10\cdot\frac{3}{5} = 6\ kN$

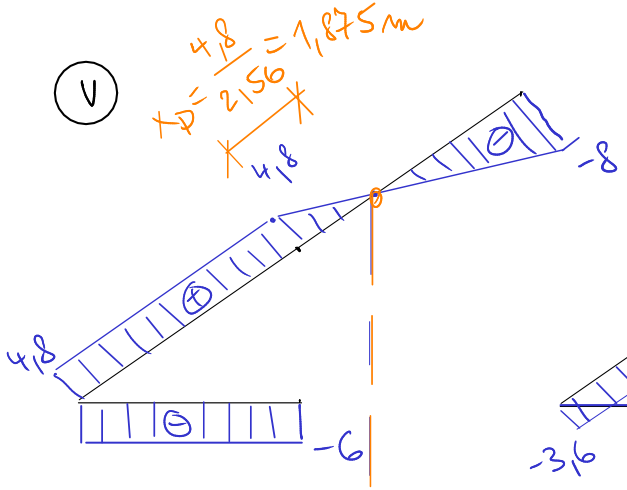
$Q = G^{\perp} = 6\cdot\cos\alpha = 16\cdot\frac{4}{5} = 12{,}8\ kN \Rightarrow q = \frac{Q}{l} = 2{,}56\ kN/m$

$N = G'' = 6\cdot\sin\alpha = 16\cdot\frac{3}{5} = 9{,}6\ kN \Rightarrow n = \frac{N}{l} = 1{,}92\ kN/m$

$R''_{az} = R_{az}\cdot\sin\alpha = 6\cdot\frac{3}{5} = 3{,}6\ kN$ ✓

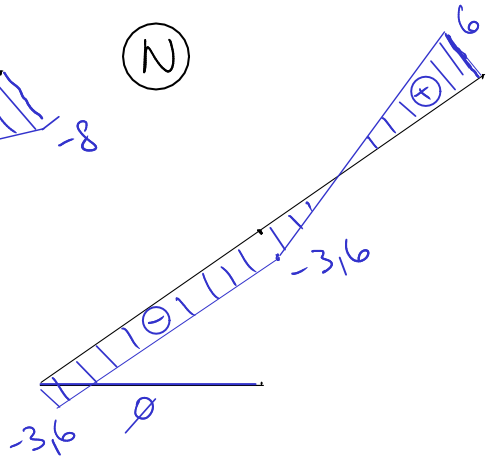
$R^{\perp}_{az} = R_{az}\cdot\cos\alpha = 6\cdot\frac{4}{5} = 4{,}8\ kN$ ✓

(V)

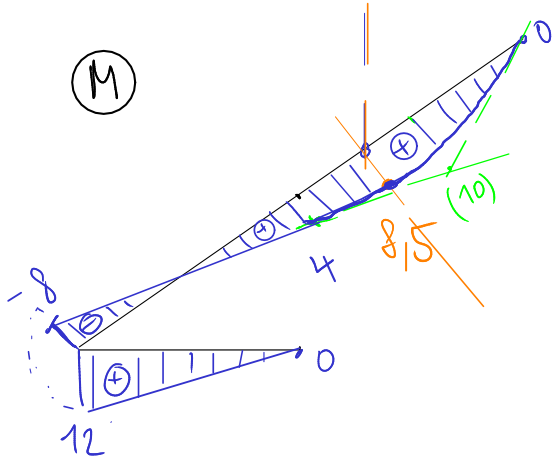


$\frac{4{,}8}{2{,}56} = 1{,}875\ m$

(N)



(M)



$f = \frac{1}{8}ql^2 = \frac{1}{8}\cdot 2{,}56\cdot 2{,}5^2 = 2$

$M_{max} = 4 + \frac{1}{2}\,1{,}875\cdot 4{,}8 = 8{,}5\ kNm$