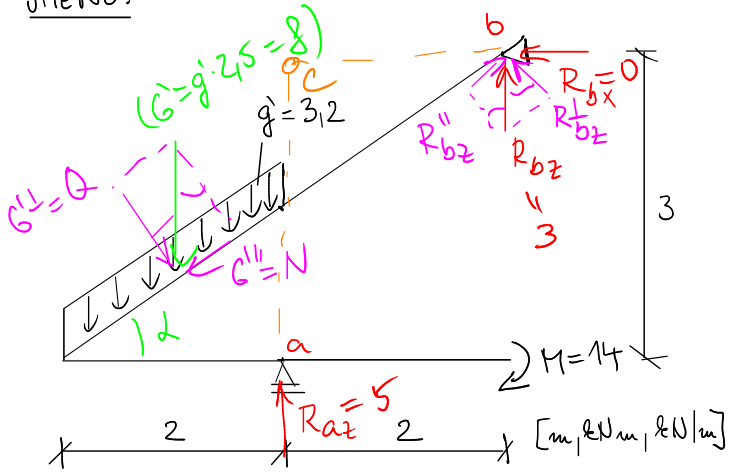
JMÉNO:



$l=5\,m$

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

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

$\Sigma F_{xi}=0: R_{bx}=0$

$\oplus\ \Sigma M_{bi}=0: R_{az}\cdot 2+M-G'\cdot 3=0 \Rightarrow R_{az}=5\,kN$

$\circlearrowleft\oplus\ \Sigma M_{ci}=0: R_{bz}\cdot 2-M+G'\cdot 1=0 \Rightarrow R_{bz}=3\,kN$

$\uparrow\oplus\ \Sigma F_{zi}=0: R_{az}+R_{bz}-G'=0$ ✓

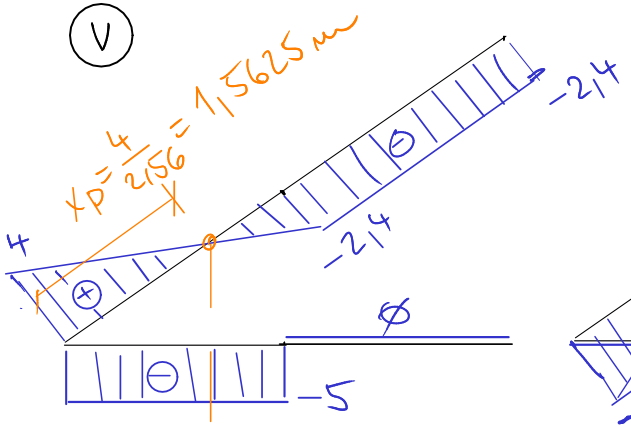
$R'_{bz}=R_{bz}\cdot\cos\alpha=3\cdot\frac{4}{5}=2,4\,kN$

$R''_{bz}=R_{bz}\cdot\sin\alpha=3\cdot\frac{3}{5}=1,8\,kN$

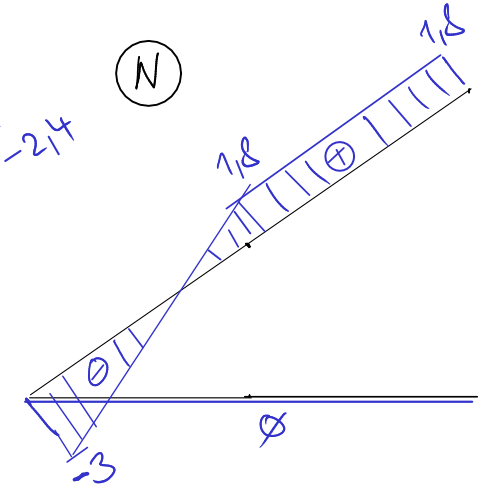
$Q=G'\cdot\cos\alpha=8\cdot\frac{4}{5}=6,4\,kN \Rightarrow q=\frac{Q}{l=2,5}=2,56\,kN/m$

$N=G'\sin\alpha=8\cdot\frac{3}{5}=4,8\,kN \Rightarrow n=\frac{N}{l=2,5}=1,92\,kN/m$

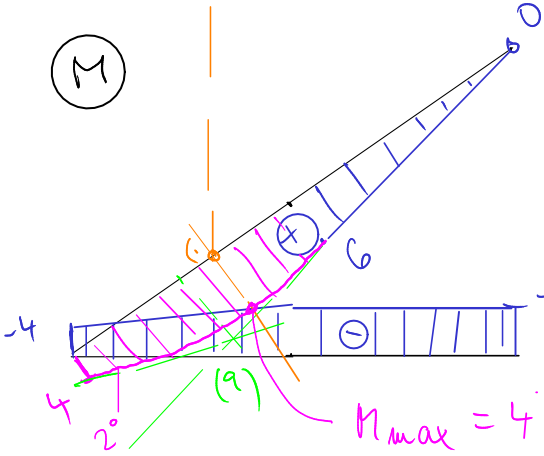
(V)



(N)



(M)



$M_{max}=4+\frac{1}{2}\,4\cdot 1,5625=7,125\,kNm$

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