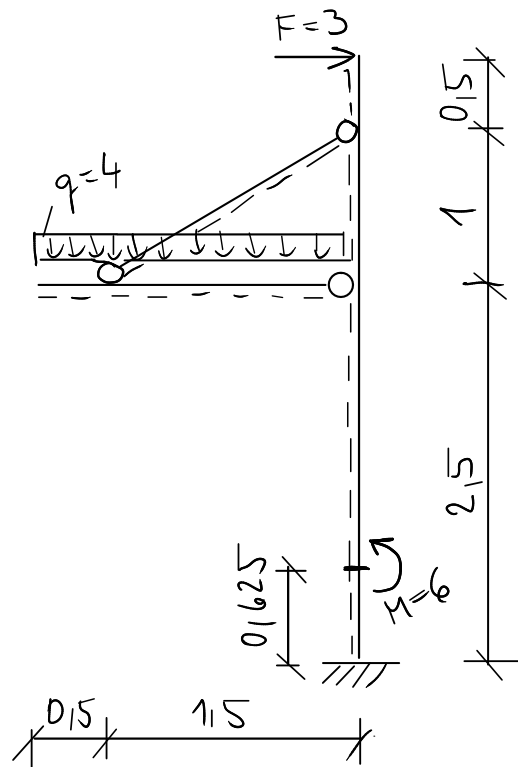


[m, N, V, M] JMENO:

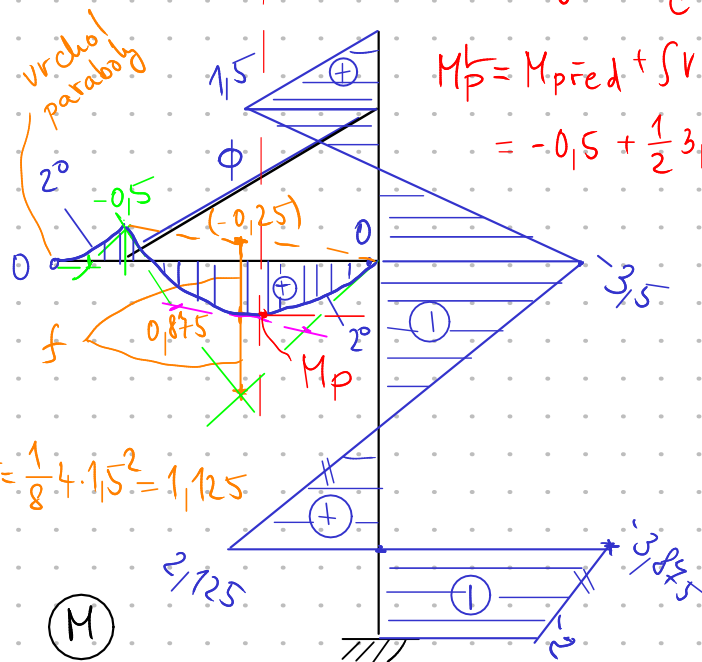
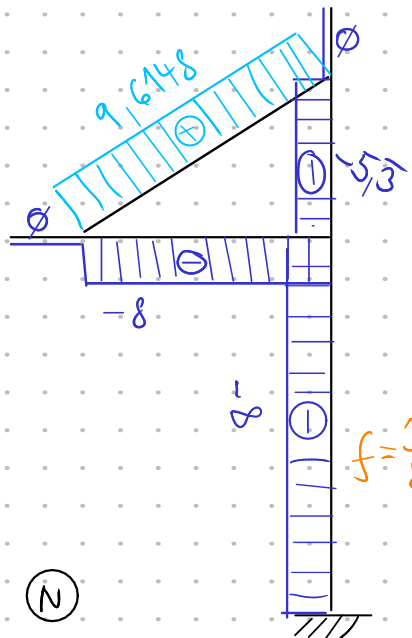
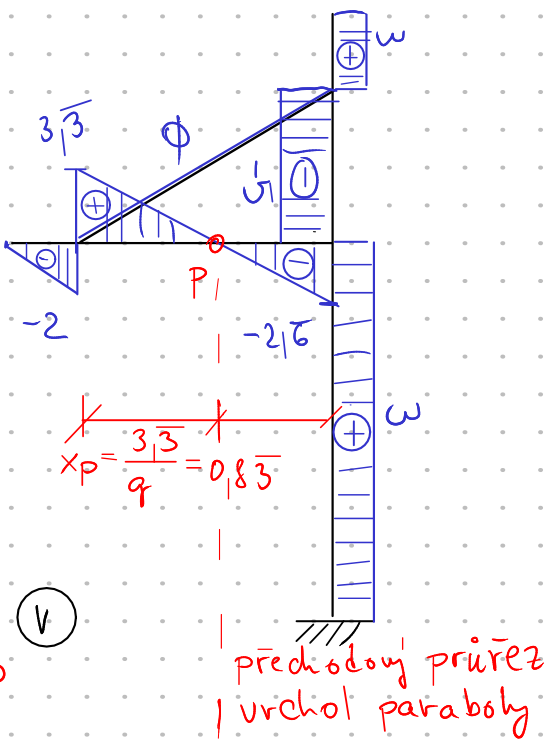
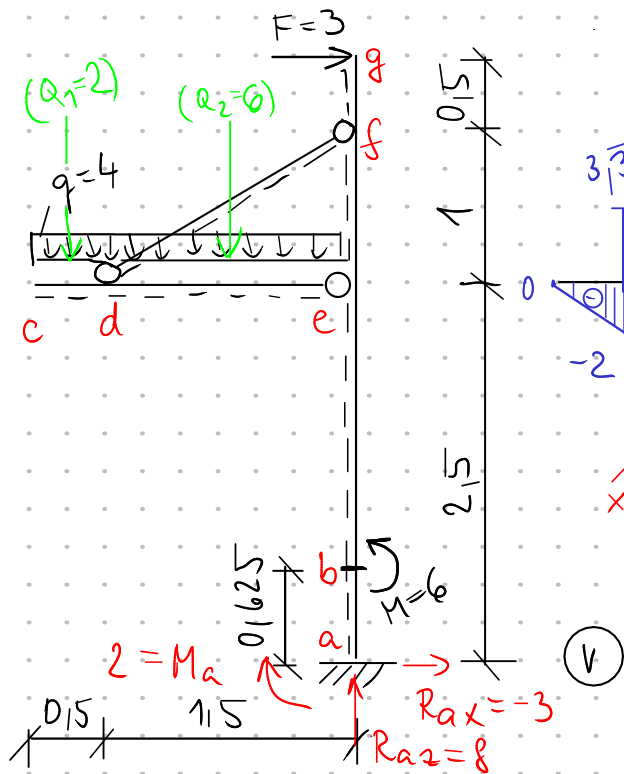


(V)

(M)

(N)

[m, N, Nm] JMENO:



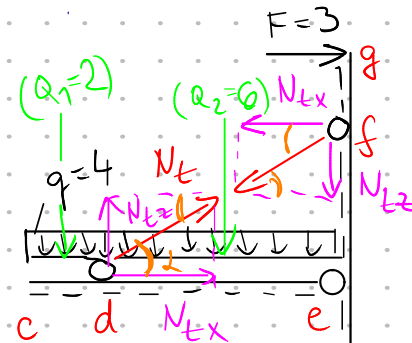
Reakce: $\sum F_{xi} = 0 \oplus \rightarrow R_{ax} + F = 0 \Rightarrow R_{ax} = -F = -3.8N$

$\sum F_{zi} = 0 \oplus \uparrow R_{az} - q \cdot 2 = 0 \Rightarrow R_{az} = q \cdot 2 = 8.8N$

$\sum M_{ai} = 0 \oplus \curvearrowright M_a - M - q \cdot 2 \cdot \frac{2}{2} + F \cdot 4 = 0 \Rightarrow M_a = 2.8Nm$

kontrola $\sum M_{ci} = 0 \oplus \curvearrowright$

$q \cdot \frac{2^2}{2} + F \cdot 1.5 - M + M_a - R_{az} \cdot 2 - R_{ax} \cdot 2.5 = 0 \checkmark$



$\sum M_{ci} = 0 \oplus \curvearrowright$

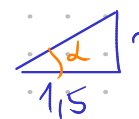
$N_{tz} \cdot 1.5 - q \cdot 2 \cdot \frac{2}{2} = 0$

$N_{tz} = 5.38N$

$\sum M_{ci} = 0 \oplus \uparrow$

$N_{tx} \cdot 1 - F \cdot 1.5 + M - M_a + R_{ax} \cdot 2.5 = 0$

$N_{tx} = 8.8N$



$l = \sqrt{1.5^2 + 1^2} = \sqrt{3.25}$

$\sin \alpha = \frac{1}{\sqrt{3.25}}$

$\cos \alpha = \frac{1.5}{\sqrt{3.25}}$

$N_t = \frac{N_{tx}}{\cos \alpha} = \frac{8 \cdot \sqrt{3.25}}{1.5} = 9.61488N$

kontrola

$\frac{N_{tz}}{\sin \alpha} = N_t =$

$= \frac{5.3 \cdot \sqrt{3.25}}{1}$

$= 9.61488N \checkmark$