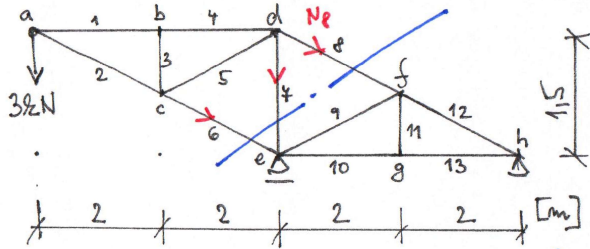


(A)

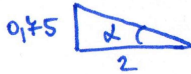


$$N_g = ?$$

$$\sum M_{ei} = 0 \quad (+ \uparrow)$$

$$3 \cdot 4 - N_g \cdot \cos \alpha \cdot 1,5 = 0$$

$$N_g = \frac{12}{1,5 \cdot 0,9363} = \underline{\underline{8,544 \text{ kN}}}$$



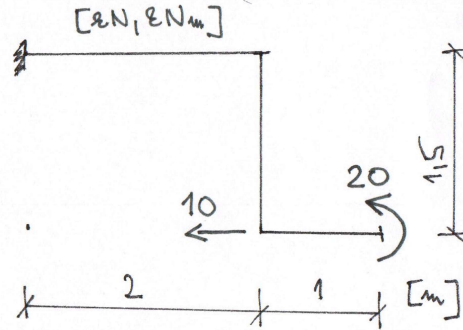
$$l = \sqrt{0,75^2 + 2^2} = 2,136 \text{ m}$$

$$\sin \alpha = \frac{0,75}{2,136} = 0,3511$$

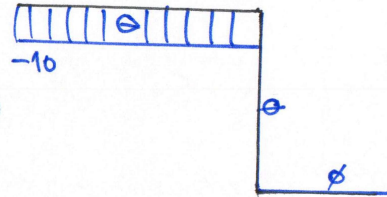
$$\cos \alpha = \frac{2}{2,136} = 0,9363$$

JMENO:

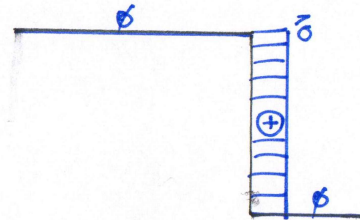
Výpočty:



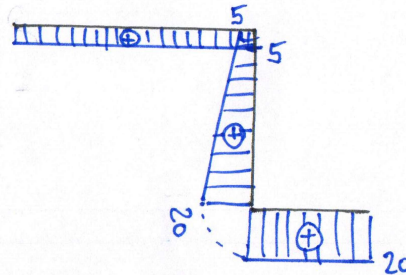
(N)



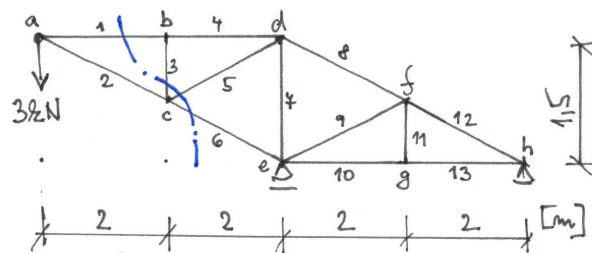
(V)



(M)



(B)

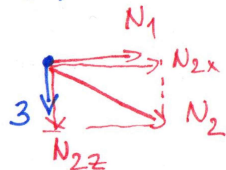


$$N_1 = ?$$

$$l = \sqrt{2^2 + 0.75^2} = 2.136 \text{ m} \quad \sin \alpha = \frac{0.75}{2.136} = 0.3511$$

$$\cos \alpha = \frac{2}{2.136} = 0.9363$$

• předpokladání řešení - styčnicková metoda



$$\sum F_{zi} = 0$$

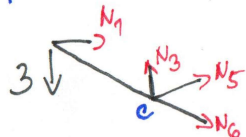
$$3 + N_2 \cdot \sin \alpha = 0$$

$$N_2 = -\frac{3}{0.3511} = -8.544 \text{ kN}$$

$$\sum F_{xi} = 0 \quad N_1 + N_2 \cos \alpha = 0$$

$$N_1 = -(-8.544) \cdot 0.9363 = \underline{\underline{8 \text{ kN}}}$$

• průsečná metoda (nemí potřeba nic rozkládat)



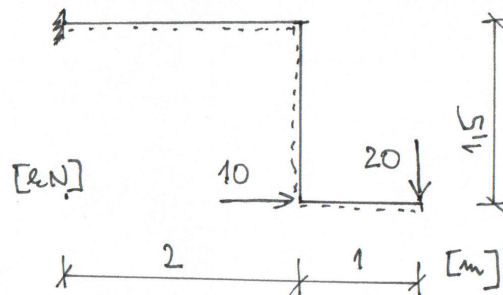
$$\sum M_{ci} = 0 \quad (+)$$

$$3 \cdot 2 - N_1 \cdot 0.75 = 0$$

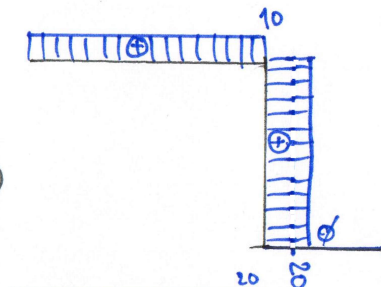
$$N_1 = \frac{6}{0.75} = \underline{\underline{8 \text{ kN}}}$$

JMÉNO:

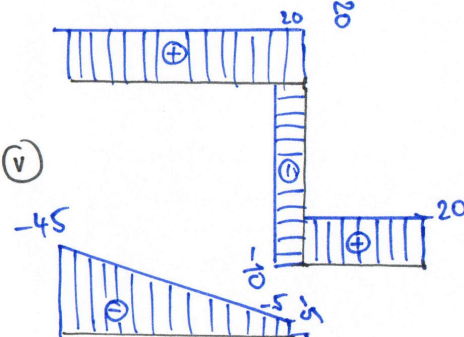
Výpočty:



(N)



(V)



(M)

