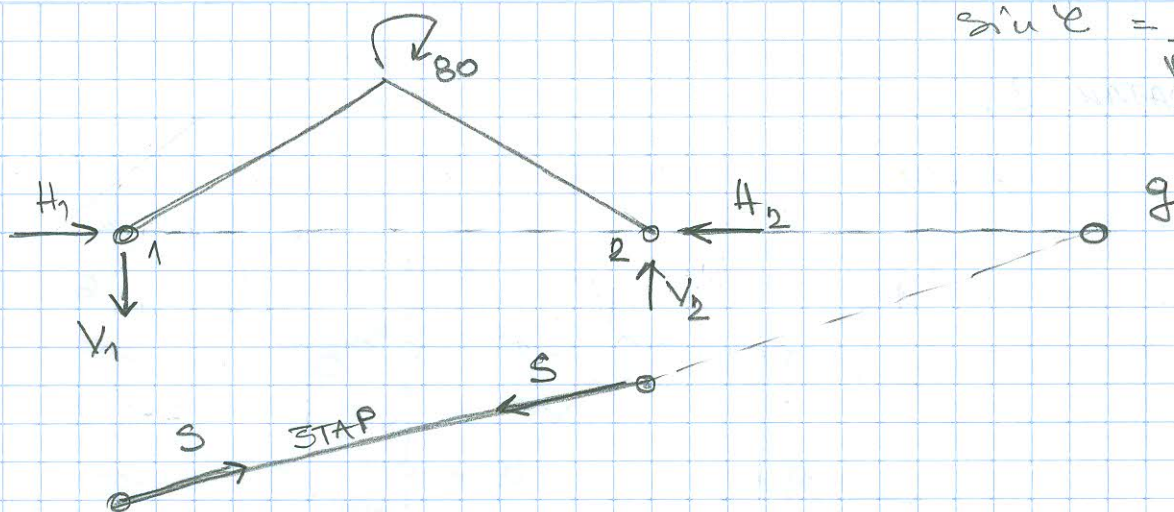


Uaao je
 $\sin \varphi = \frac{2}{\sqrt{29}}$

II

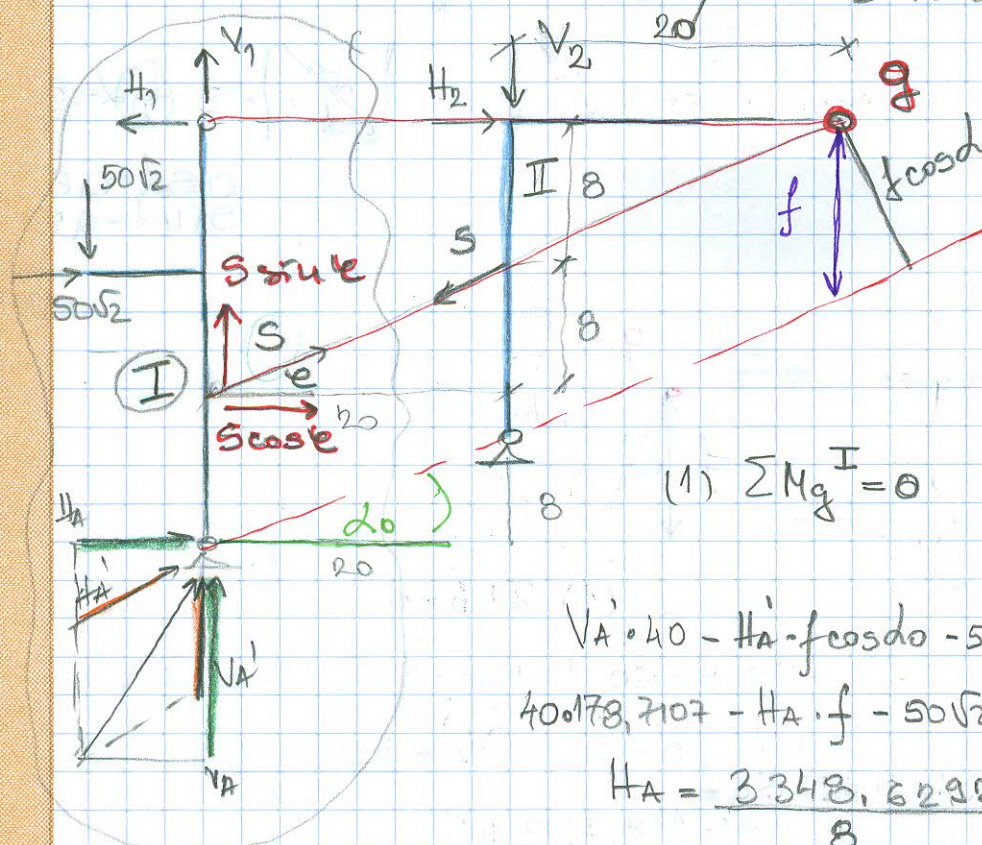


$$\sum M_2 = 0 \quad -V_1 \cdot 20 + 80 = 0 \quad V_1 = \frac{80}{20} = 4 \text{ kN}$$

$$\sum V = 0 \quad V_2 = V_1 = 4 \text{ kN}$$

$$\sum H = 0 \quad H_1 = H_2$$

POČETNI SISTEM: Sve nepoznate uže su mi potrebne na ploči II i na ploči I pa je dovoljno da izračunam samo I a da kasnije postavim sve sile na II



$$\varphi = 40 \quad \tan \varphi = \frac{8}{20} = \frac{2}{5}$$

$$\tan \varphi = \frac{2}{5} \quad f = 8$$

$$(1) \sum M_g^I = 0$$

* Zglobom g sam dve nepoznate isključila S i H1.

$$V_A' \cdot 40 - H_A' \cdot f \cos \varphi - 50\sqrt{2} \cdot 48 - 50\sqrt{2} \cdot 8 + V_1 \cdot 40 = 0$$

$$40 \cdot 178,7107 - H_A \cdot f - 50\sqrt{2}(48+8) + 4 \cdot 40 = 0$$

$$H_A = \frac{3348,6232}{8} = 418,5787 \text{ kN}$$

$$3) \sum H^I = 0$$

$$V_A = V_A' + H_A \cdot \tan \varphi = 178,7107 + 418,5787 \cdot \frac{2}{5}$$

$$= 346,1421 \text{ kN}$$

$$H_A + S \cos \varphi + 50\sqrt{2} - H_1 = 0$$

$$H_1 = 1187,5252 \text{ kN} \quad (2) \sum V^I = 0$$

$$H_2 = H_1$$

$$V_A + S \sin \varphi + V_1 - 50\sqrt{2} = 0$$

$$S \sin \varphi = -279,4315$$

$$S \cdot \frac{8}{21,54} = -279,4315 \Rightarrow S = -752,3693$$