

$$\begin{aligned} \tan \alpha_1 &= \frac{3}{4} \\ \cos \alpha_1 &= \frac{4}{5} = 0.8 \\ \sin \alpha_1 &= \frac{3}{5} = 0.6 \end{aligned}$$

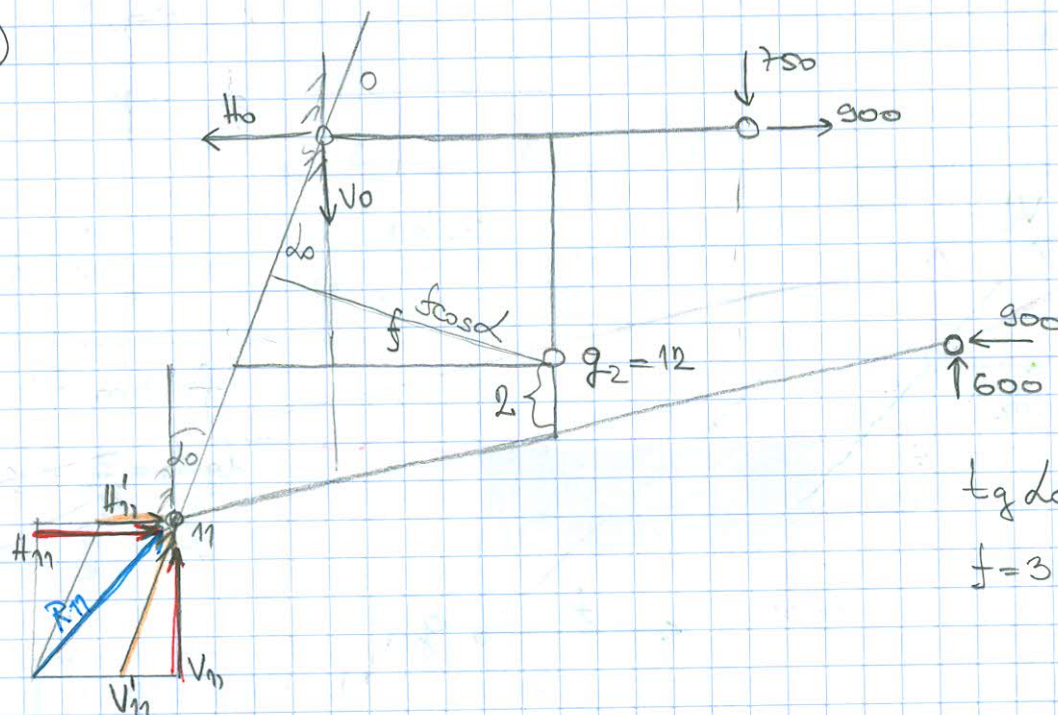
$$\sum M_7 = 0 \quad 600 \cdot 6 - S_1 \cdot \cos \alpha_1 \cdot 3 = 0$$

$$S_1 = 1500 \text{ kN}$$

$$\sum M_2 = 0 \quad S_2 \cdot 6 - S_1 \cdot \sin \alpha_1 \cdot 3 = 0$$

$$S_2 = 600 \text{ kN}$$

2)



$$\begin{aligned} \tan \alpha_0 &= \frac{3}{4} \\ f &= 3 + 4 \cdot \tan \alpha_0 = 4.5 \text{ m} \end{aligned}$$

$$a) \sum M_0 = 0 \quad H_n' \cdot 8 - 900 \cdot 4 + 600 \cdot 3 - 750 \cdot 6 = 0$$

$$H_n' = 337.5 \text{ kN}$$

$$V_n' \cos \alpha_0 = V_n$$

$$b) \sum M_{g_2} = 0 : 600 \cdot 6 - V_n' \cdot f \cos \alpha_0 + H_n' \cdot 4 = 0$$

$$600 \cdot 6 - V_n' \cdot f + H_n' \cdot 4 = 0$$

$$V_n' = 1100 \text{ kN}$$

$$H_n' = 750$$

$$H_n = H_n' + V_n' \cdot \tan \alpha_0 = 337.5 + 1100 \cdot \frac{3}{4} = 750$$

$$c) \sum H = 0 \quad -H_0 + H_n = 0 \quad H_0 = 750$$

$$\sum V = 0 \quad V_n - V_0 + 600 - 750 = 0$$

$$V_0 = 950$$