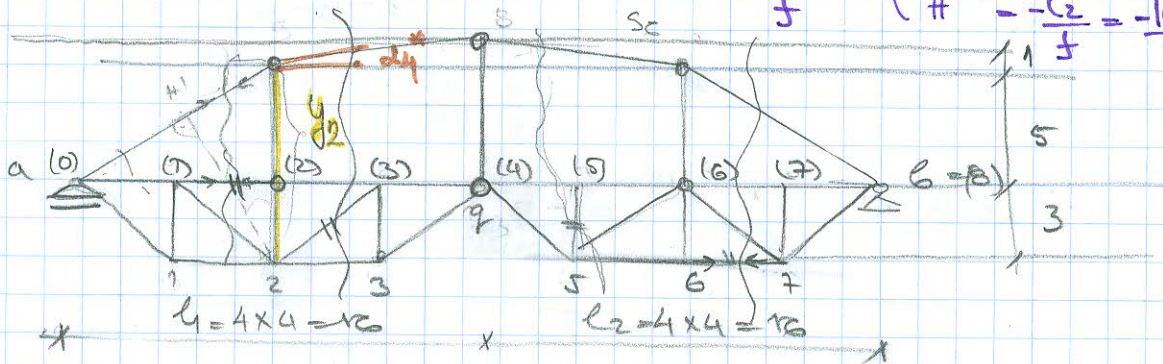


LANGEROU NOSAC

LANGER → $M_c = M_{c10} + H y_c$

$$M_g = M_{g10} + H f = 0 \rightarrow H = -\frac{M_{g10}}{f}$$

$$\left\{ \begin{array}{l} H^{(A)} = -\frac{l_1}{f} = -\frac{12}{3} = -\frac{8}{3} \\ H^{(B)} = -\frac{l_2}{f} = -\frac{16}{6} = -\frac{8}{3} \end{array} \right.$$



$O_2 = \dots$

$$M_2 + O_2 \cdot h_2 = 0$$

$$M_{210} + H y_2 + O_2 \cdot h_2 = 0$$

$$O_2 = -\frac{M_{210}}{h_2} - \frac{H y_2}{h_2}$$

$$O_2 = -\frac{M_{210}}{3} - \frac{8}{3} H$$

$$O_{210}^{(A)} = -\frac{M_{210}^{(A)}}{3} = -\frac{8}{3}$$

$$-\frac{8}{3} H^{(A)} = -\frac{8}{3} \cdot \left(-\frac{8}{3}\right) = \frac{64}{9} = 7.1^\circ$$

$$O_{210}^{(B)} = -\frac{M_{210}^{(B)}}{3} = -8$$

$$-\frac{8}{3} H^{(B)} = \frac{64}{9} = 7.1^\circ$$

$$\begin{aligned} y_2 &= 3 + 5 = 8 \\ h_2 &= 3 \end{aligned}$$

$$T_6 + V_5 = 0$$

$D_3 = \dots$

$$T_3 + D_3 \cdot \sin \gamma_3 = 0$$

$$T_{30} + S_4 \cdot \sin \gamma_4^* + D_3 \sin \gamma_3 = 0$$

$$T_{30} + \frac{H}{\cos \gamma_4^*} \sin \gamma_4^* + D_3 \sin \gamma_3 = 0$$

$$T_{30} + H \tan \gamma_4^* + D_3 \sin \gamma_3 = 0 \rightarrow D_3 = \frac{1}{\sin \gamma_3} \left(-T_{30} - H \tan \gamma_4^* \right)$$

$$D_3 = \frac{5}{3} \left(-T_{30} - \frac{1}{8} H \right)$$

$$D_{30}^{(A)} = -\frac{5}{3} T_{30}^{(A)} = -\frac{5}{3}$$

$$-\frac{5}{24} H^{(A)} = -\frac{5}{24} \cdot \left(-\frac{8}{3}\right) = \frac{40}{72} = \frac{5}{9}$$

$$D_{30}^{(B)} = -\frac{5}{3} T_{30}^{(B)} = \frac{5}{3}$$

$$-\frac{5}{24} H^{(B)} = \frac{5}{9}$$

$$\tan \gamma_3 = \frac{3}{4} \quad \sin \gamma_3 = \frac{3}{5}$$

$$\tan \gamma_4^* = \frac{1}{8}$$