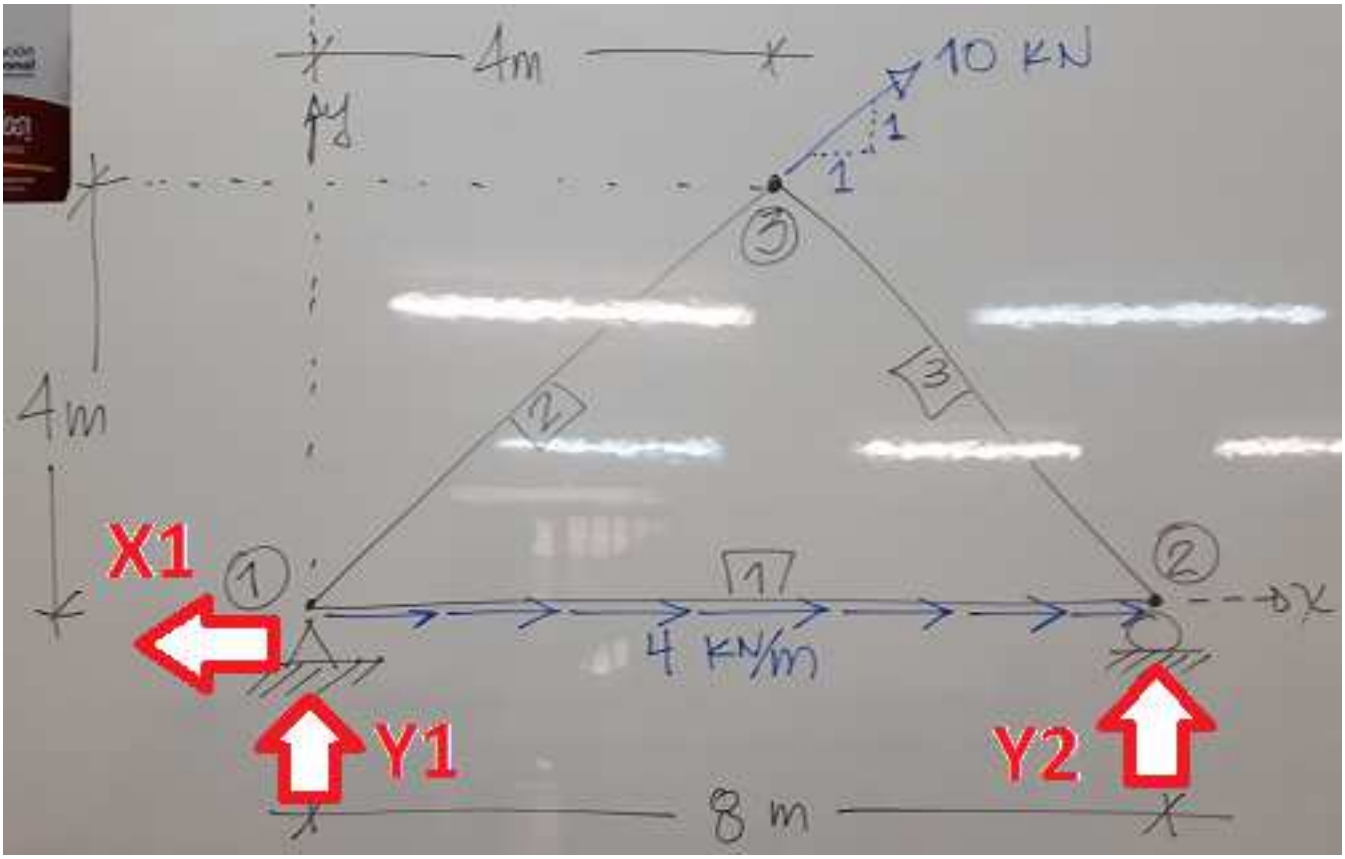


#1: [CaseMode := Sensitive, InputMode := Word]

Reacciones externas en los apoyos:

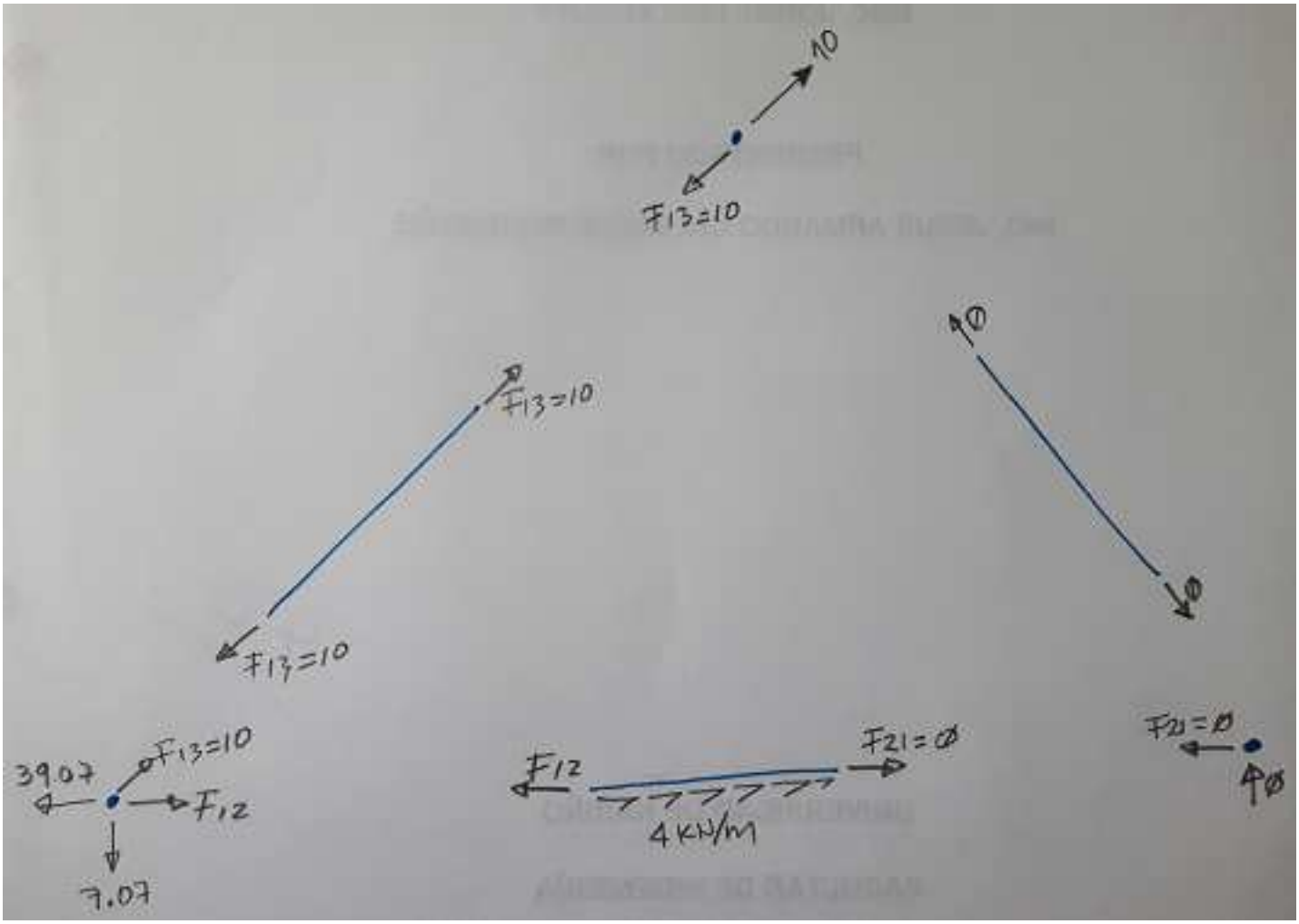
#2:
$$\begin{bmatrix} -x1 + 10\cdot\mathrm{COS}\left(\frac{\pi}{4}\right) + 4\cdot 8 = 0 \\ y1 + y2 + 10\cdot\mathrm{SIN}\left(\frac{\pi}{4}\right) = 0 \\ y2\cdot 8 - 10\cdot\mathrm{COS}\left(\frac{\pi}{4}\right)\cdot 4 + 10\cdot\mathrm{SIN}\left(\frac{\pi}{4}\right)\cdot 4 = 0 \end{bmatrix}$$

#3:
$$\begin{bmatrix} x1 = 5\cdot\sqrt{2} + 32 \\ y1 + y2 = -5\cdot\sqrt{2} \\ y2 = 0 \end{bmatrix}$$

#4: [x1 := 39.07106781, y1 := -7.071067811, y2 := 0]

Fuerzas internas:

la mayoría de fuerzas internas por simple inspección conforme al gráfico siguiente:



#5: $f12 - x1 + 10 \cdot \mathrm{COS}\left(\frac{\pi}{4}\right) = 0$

#6: $f12 = 32$