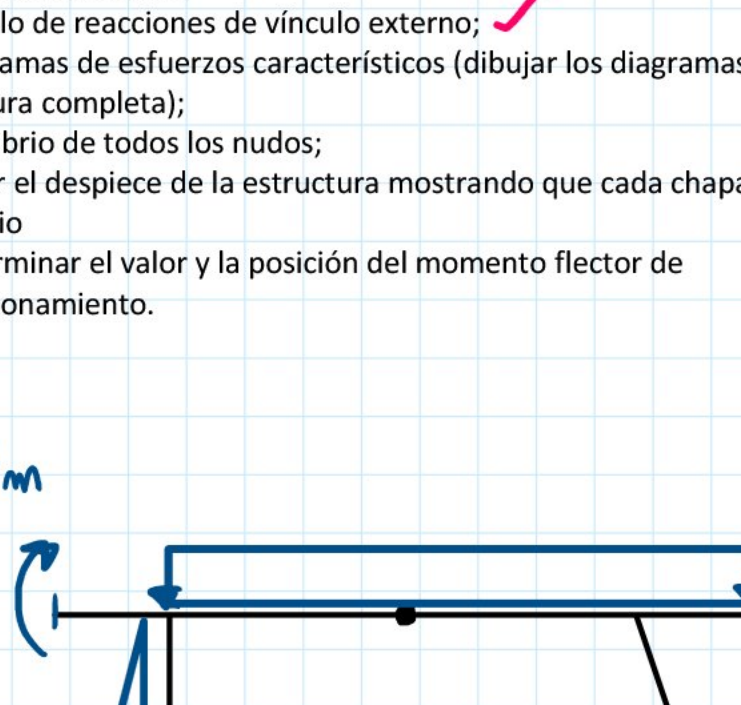
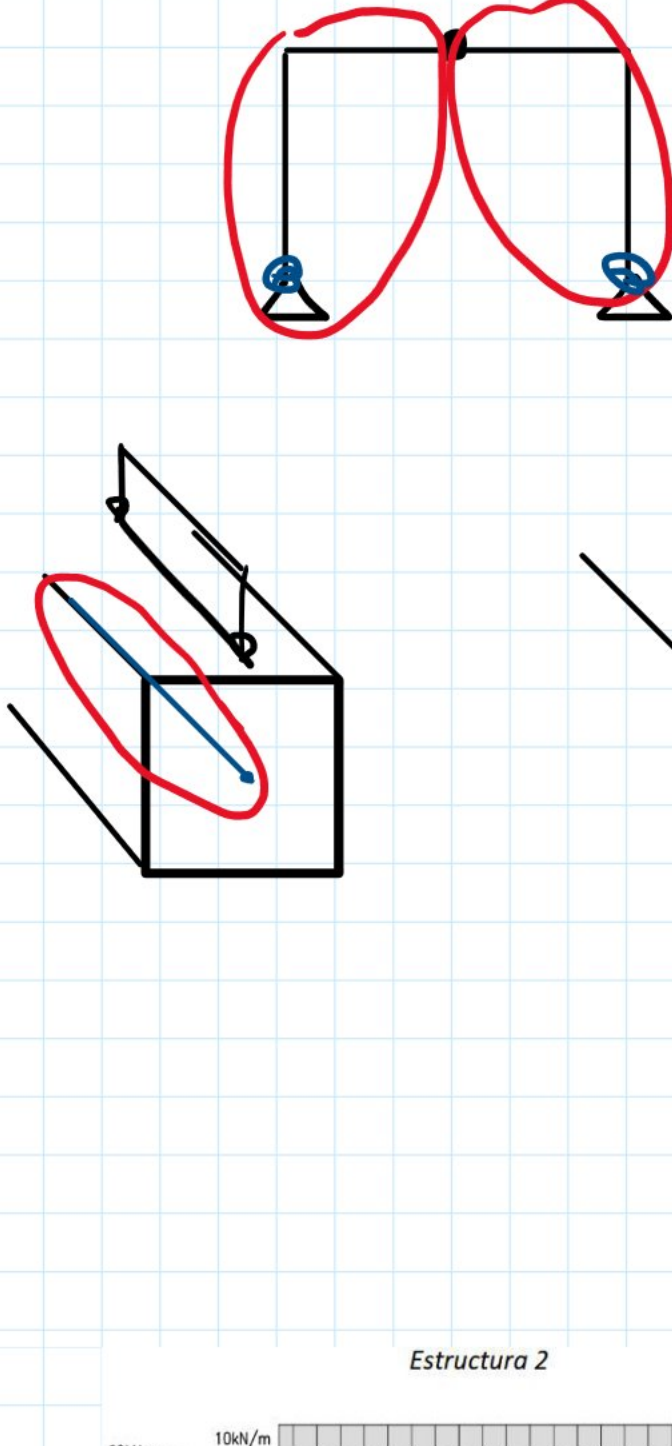


Cadena Abierta



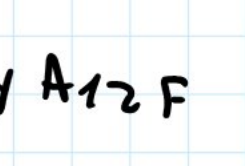
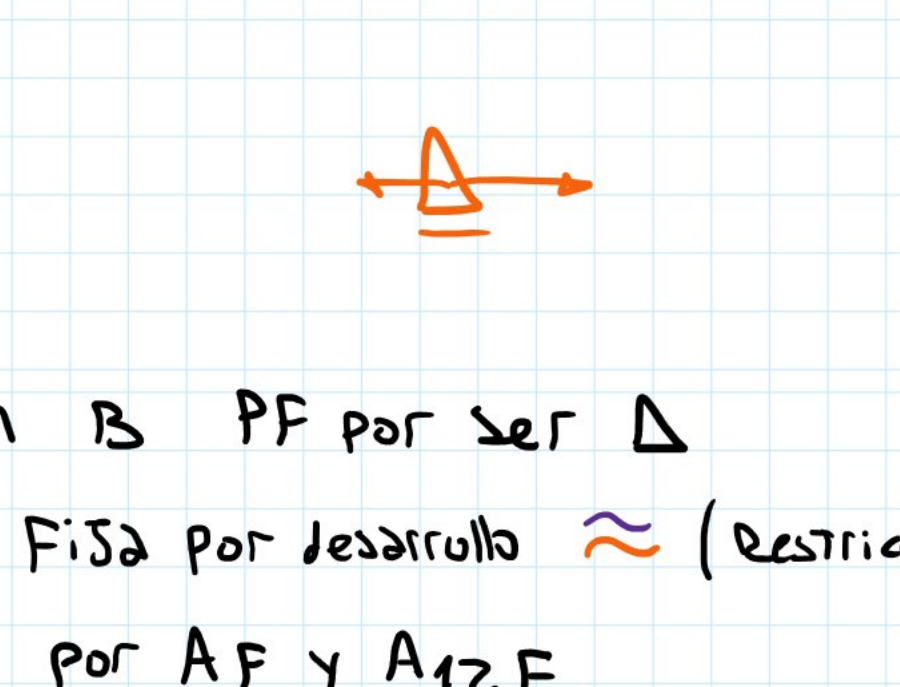
11/11/2020

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- Diagram of a frame structure with a horizontal force of 10 kN at the top left joint and a horizontal force of 40 kN at the top right joint. The structure consists of two vertical columns and two horizontal beams. The left column is 2m high, the middle column is 4m high, and the right column is 2m high. The horizontal distance between the columns is 4m. The horizontal force at the top left joint is 10 kN to the right. The horizontal force at the top right joint is 40 kN to the left.

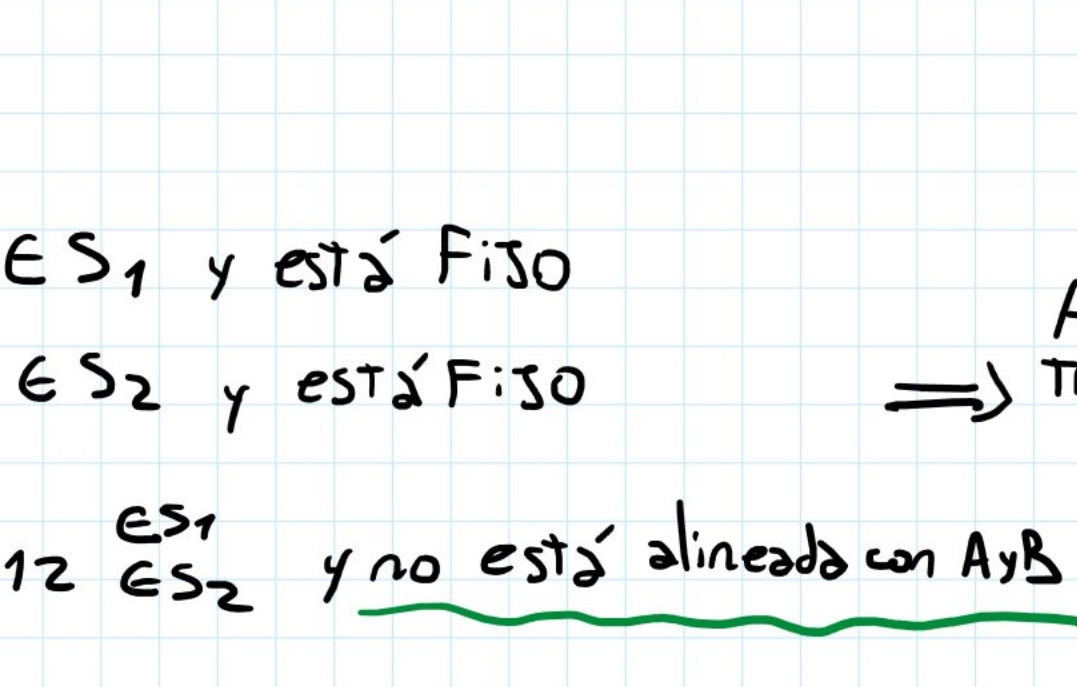
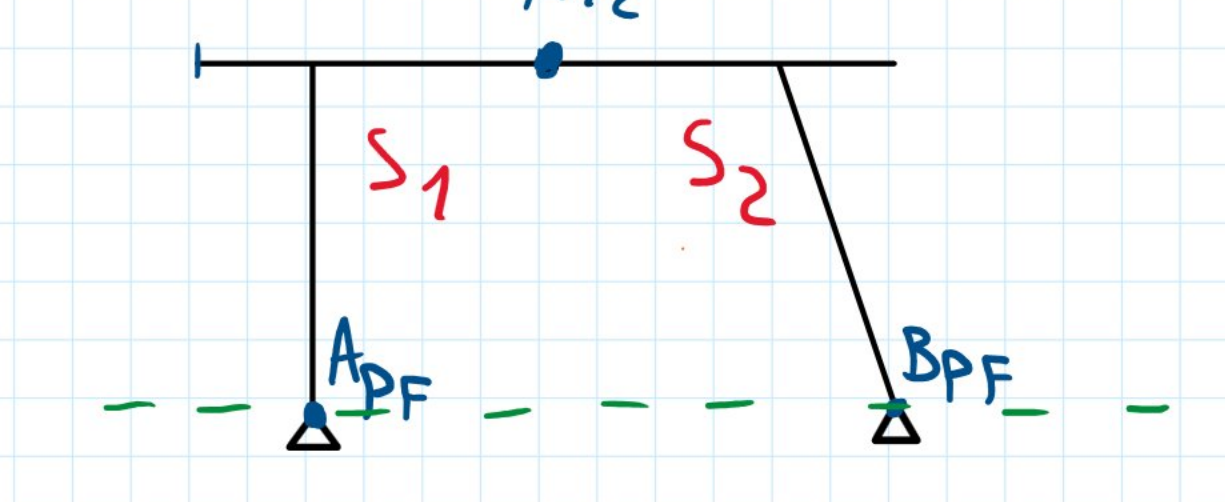
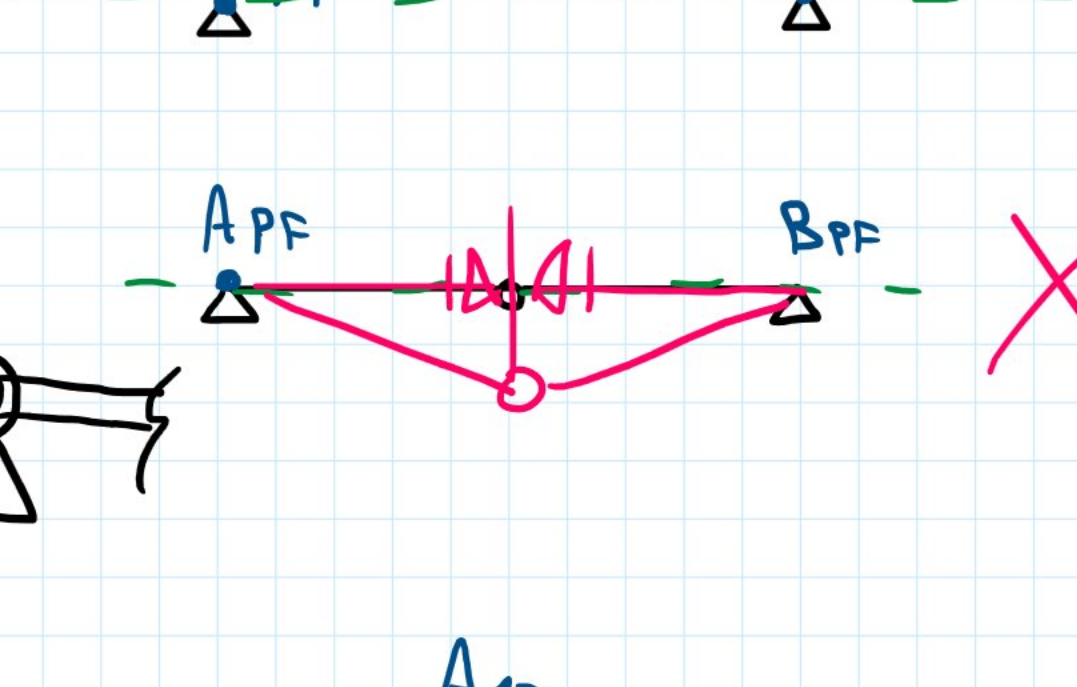
 $2 +$

11) #VA

$S_1 F$



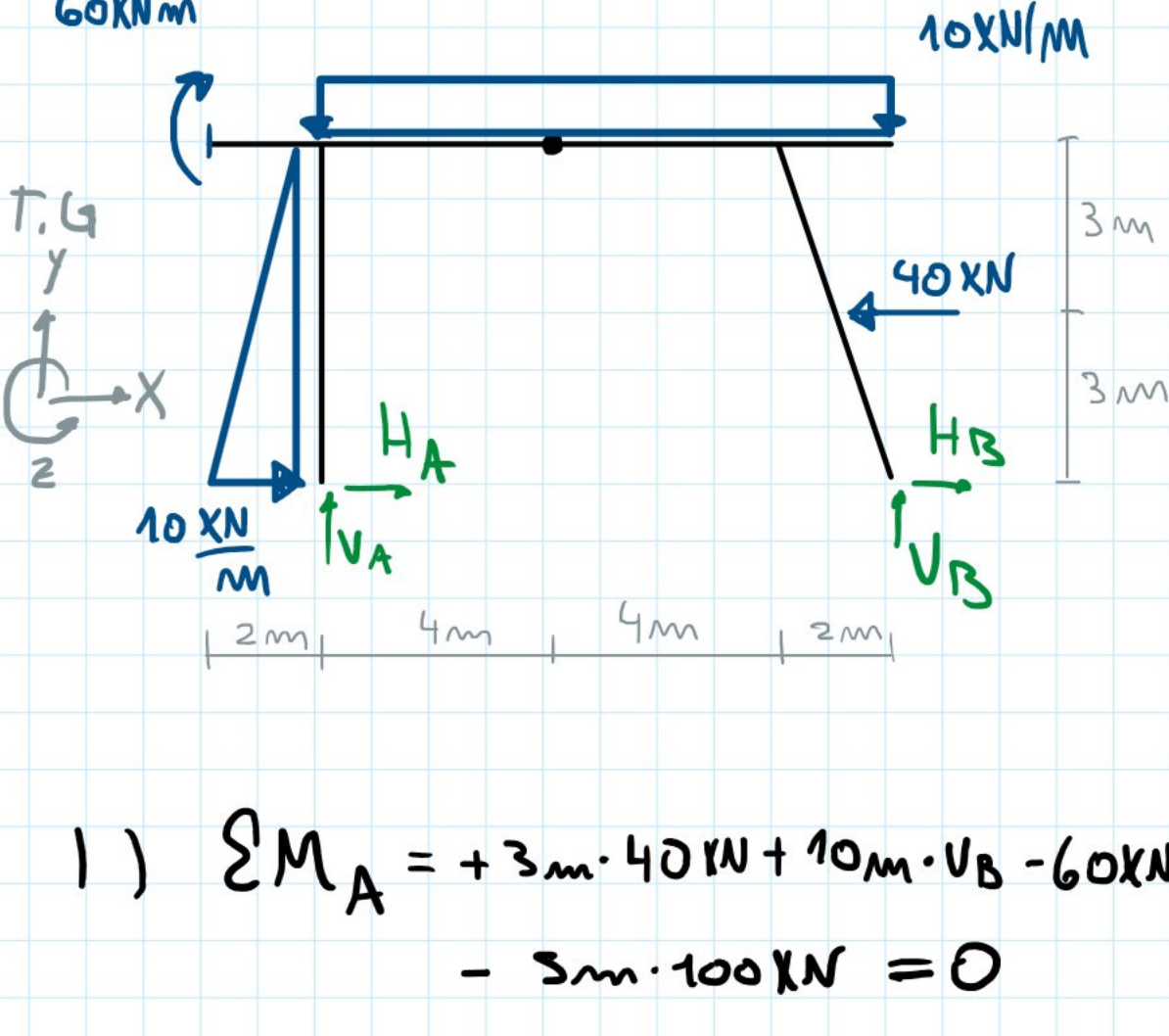
-



Reacciones de vínculo

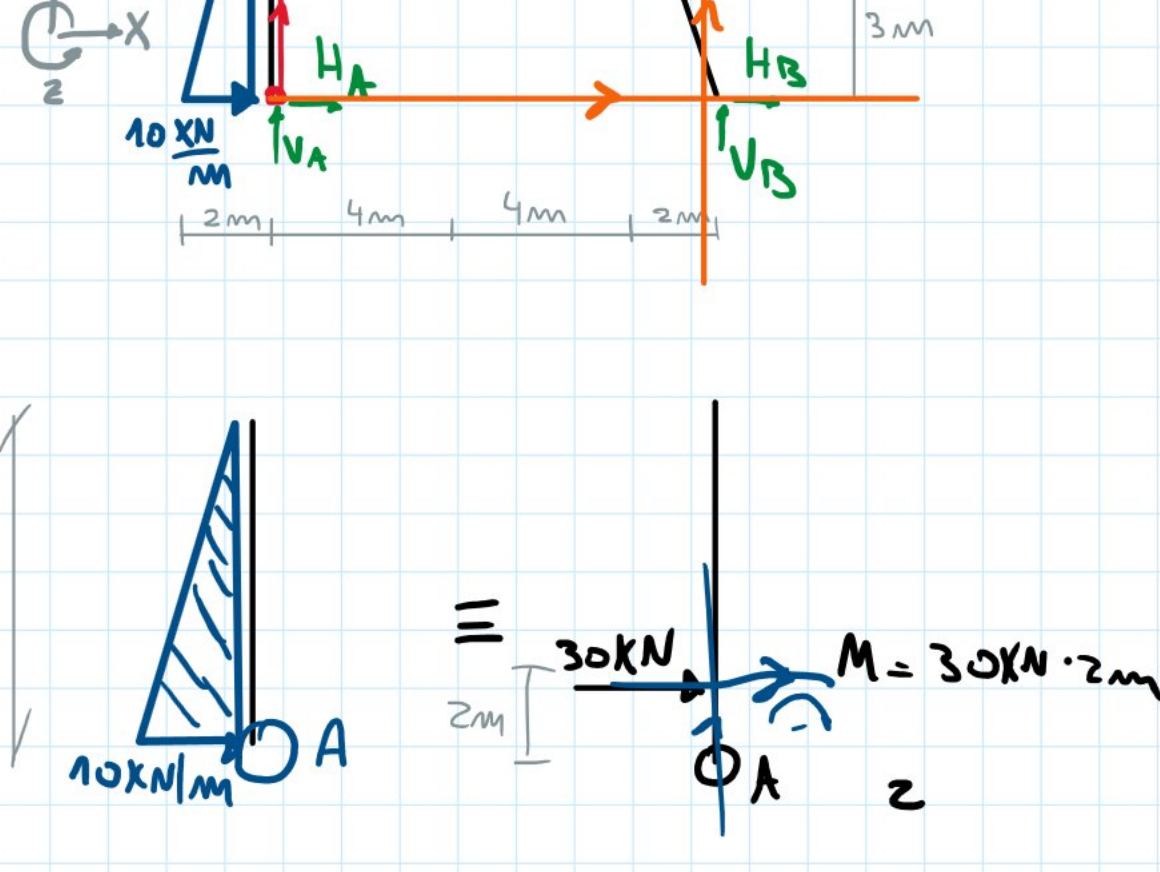
usamos ecuaciones de equilibrio

- global —
- Relativo ~

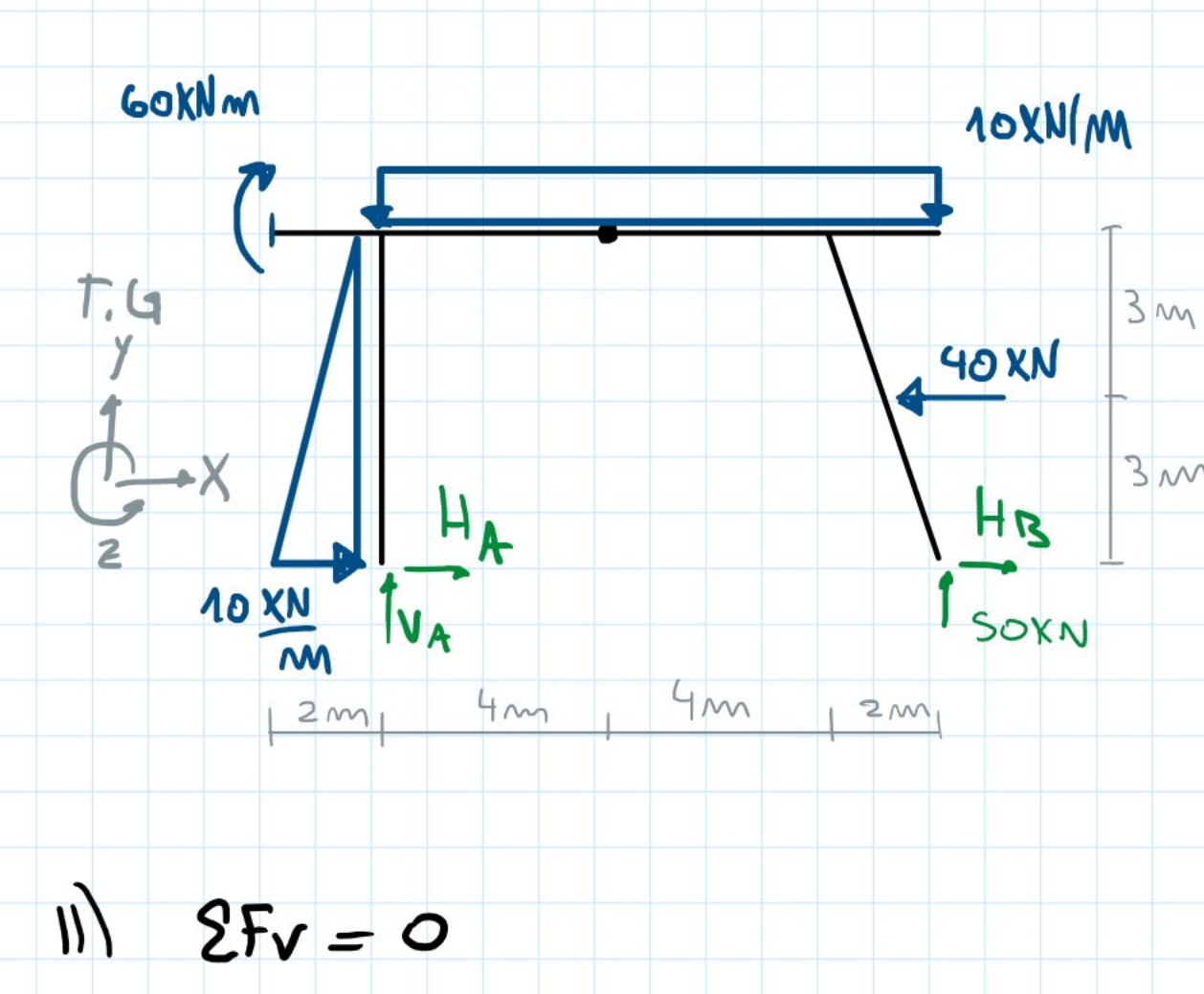


$V_B = 50 \text{ kN}$

Diagram of a frame structure with a horizontal beam and two vertical columns. The left column is pinned and has a counter-clockwise moment of 60 kNm . The beam has a 100 kN point load at its midpoint (5 m from the left support) and a 10 kN/m UDL over its right half (5 m). The right column is fixed and has a horizontal reaction of 40 kN to the left and a vertical reaction of 50 kN upwards. The height of the columns is 3 m . A coordinate system (x, y) is shown at the base of the left column.



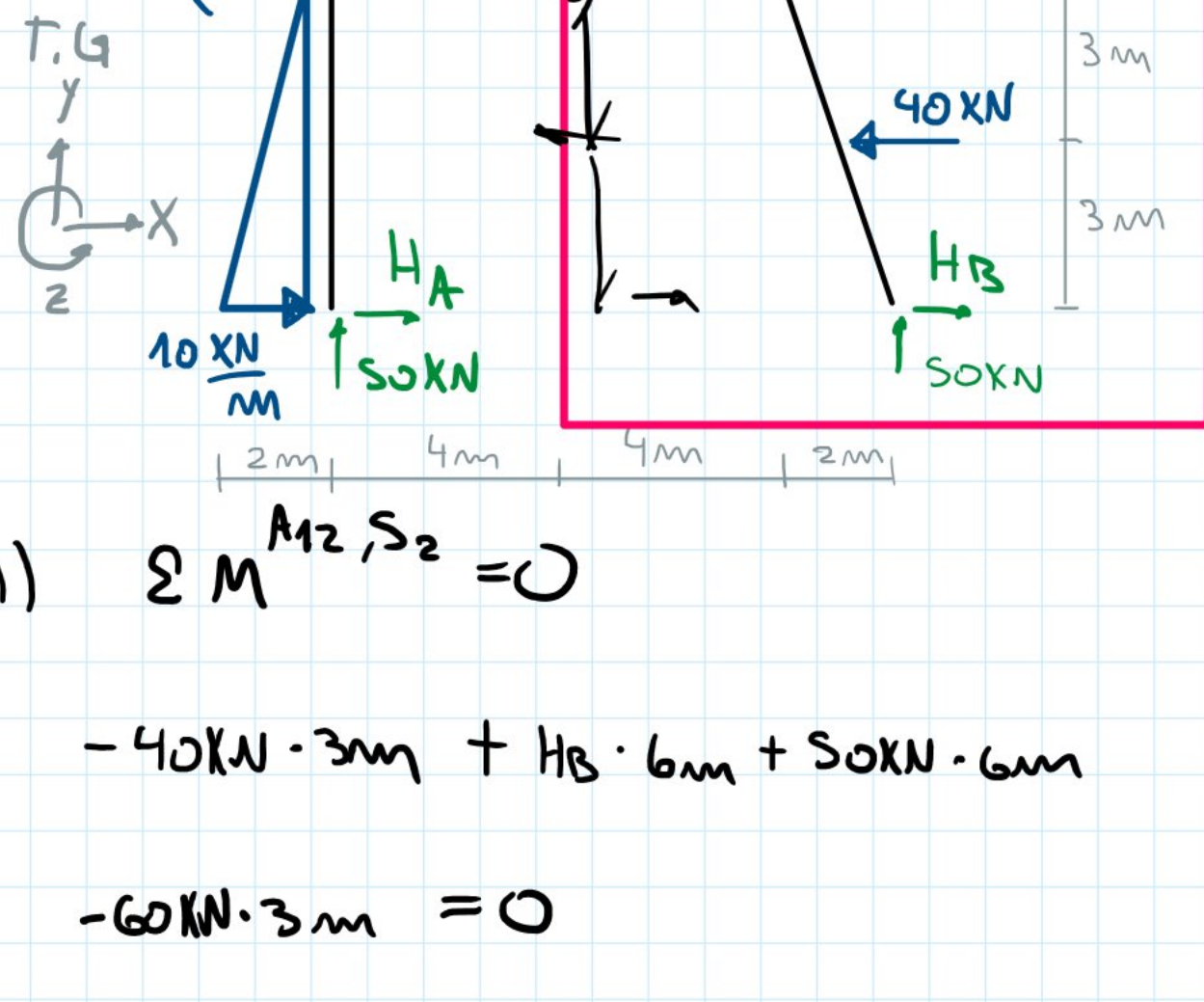
$$A_r A = \frac{b \cdot h}{2} = \frac{6 \text{ m} \cdot 10 \text{ km}}{2} = 30 \text{ km}$$



$+50 \times N -$



A horizontal beam is shown with a downward-pointing arrow at its right end, representing a point load. A small blue number '1' is written above the arrow.

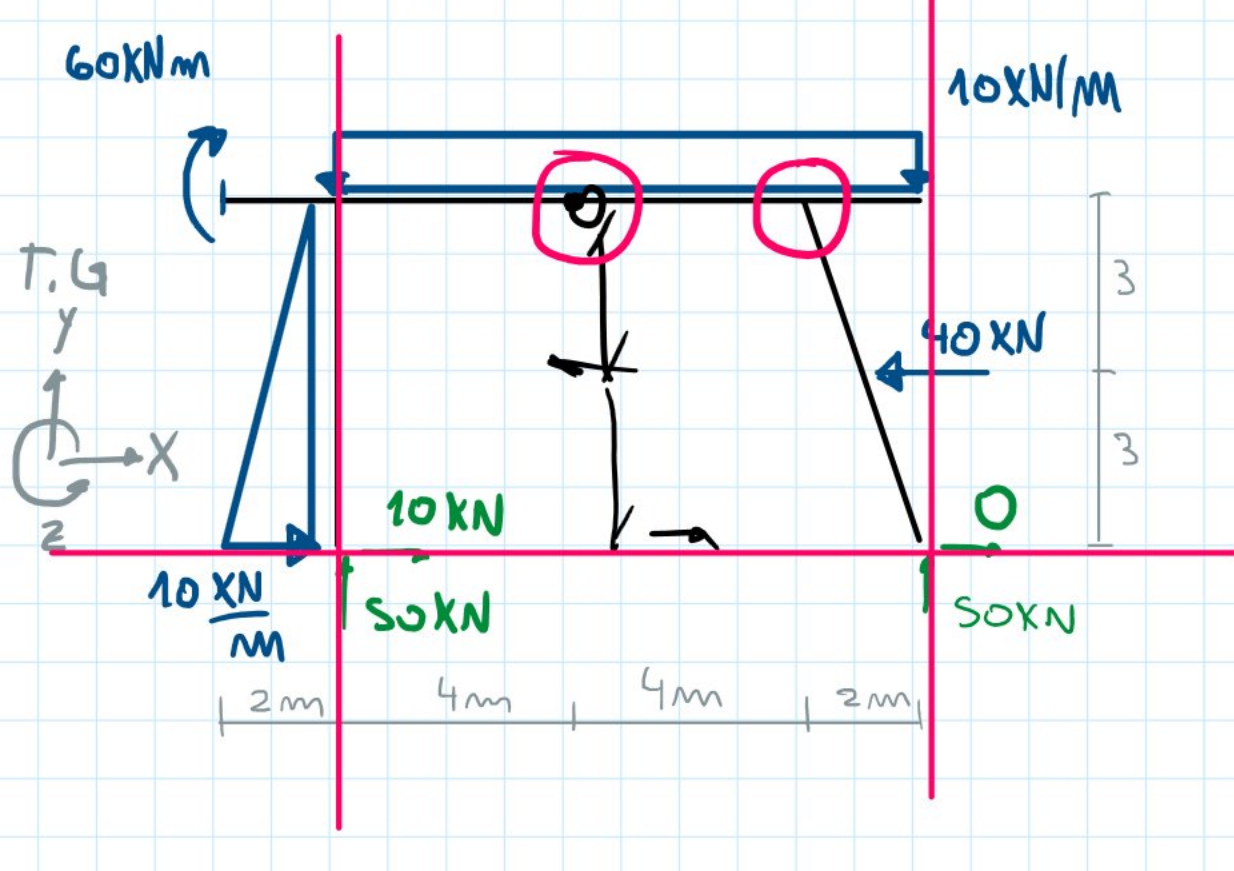


$$H_B = 0 \text{ kN}$$

$$\delta F_X = 0$$

$+HA + O - 40K$

1-



Verificación

$$\sum M_0^{\text{ges}} = 0$$