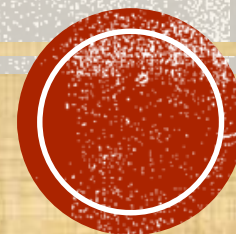
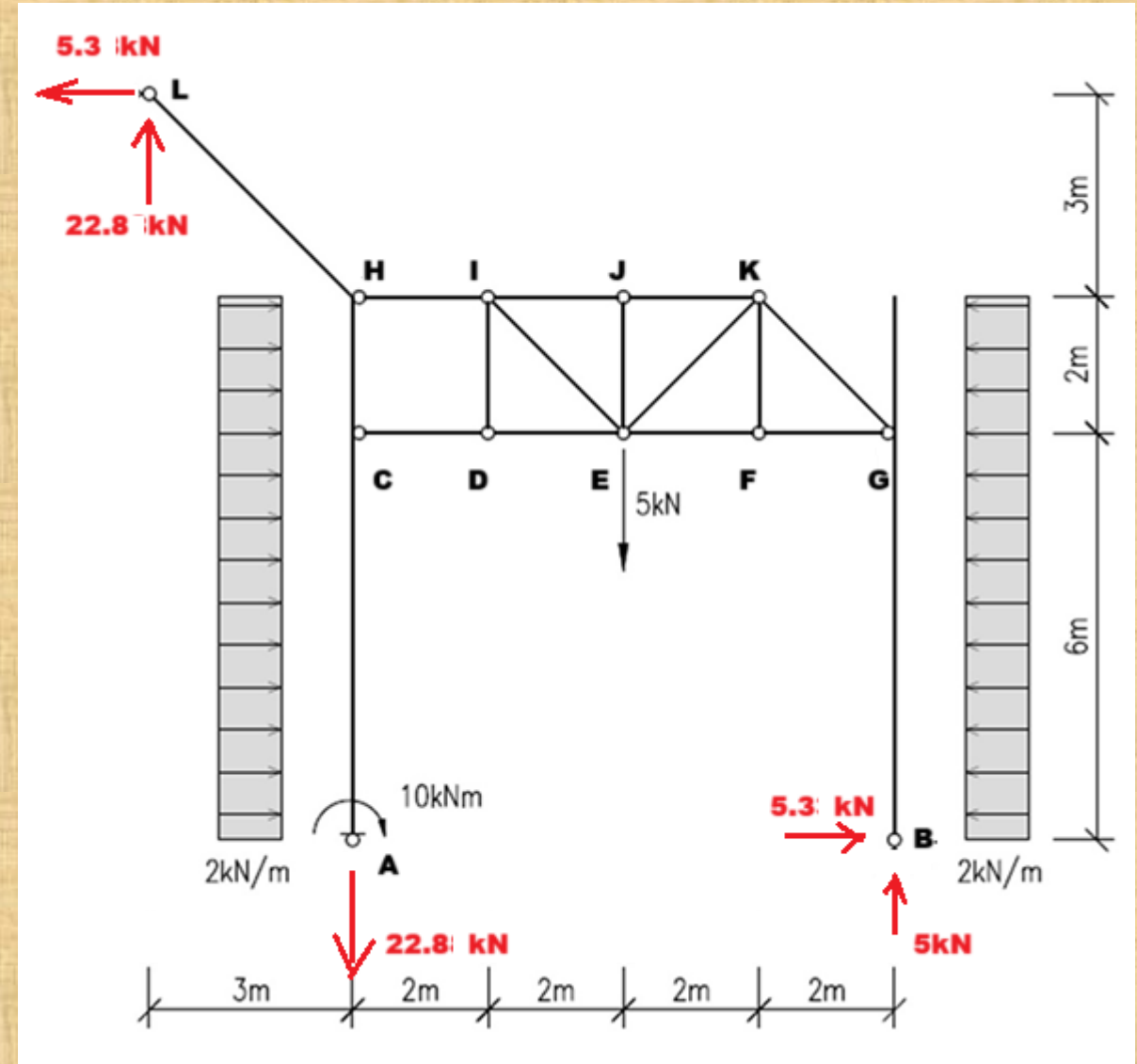
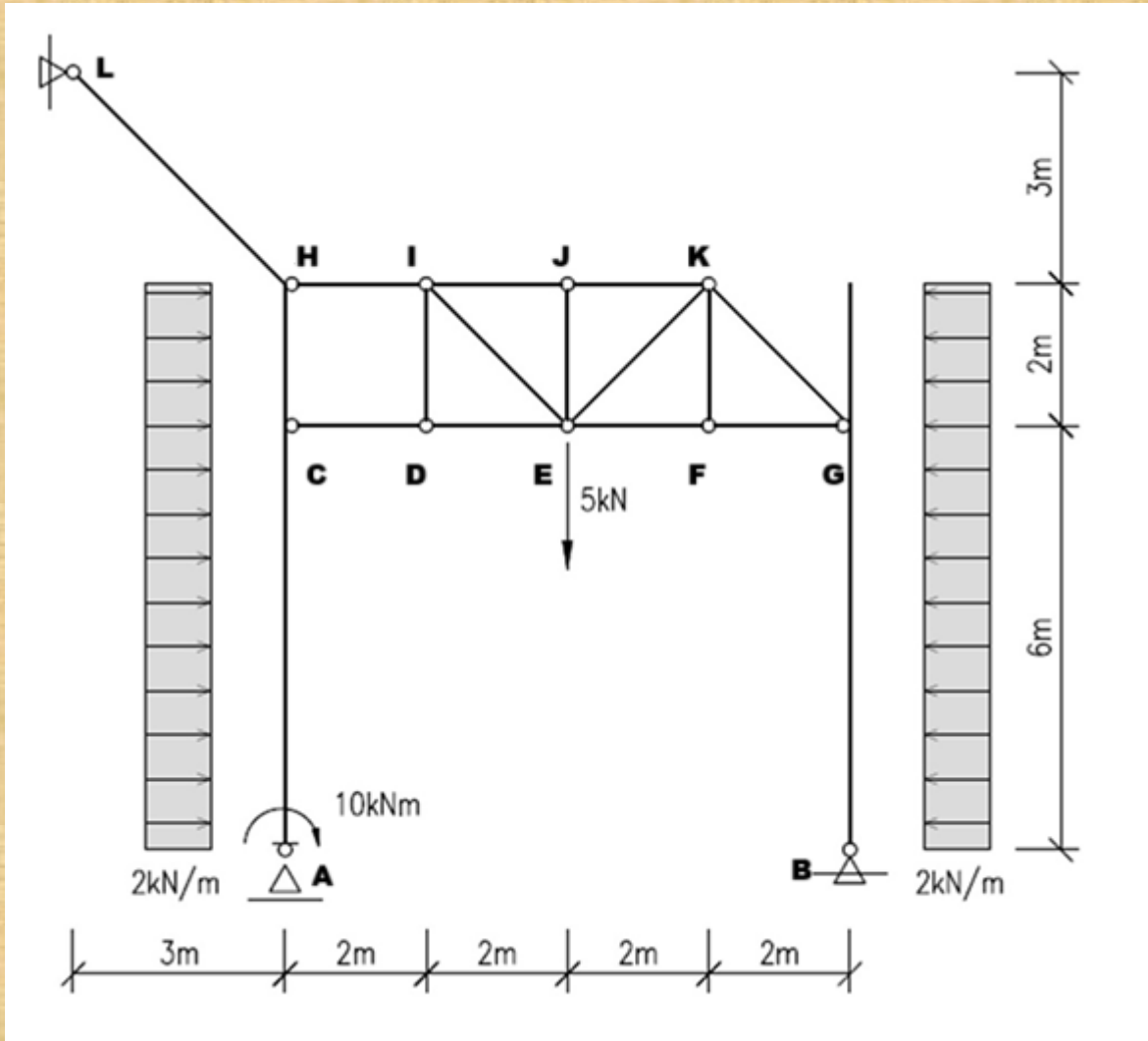


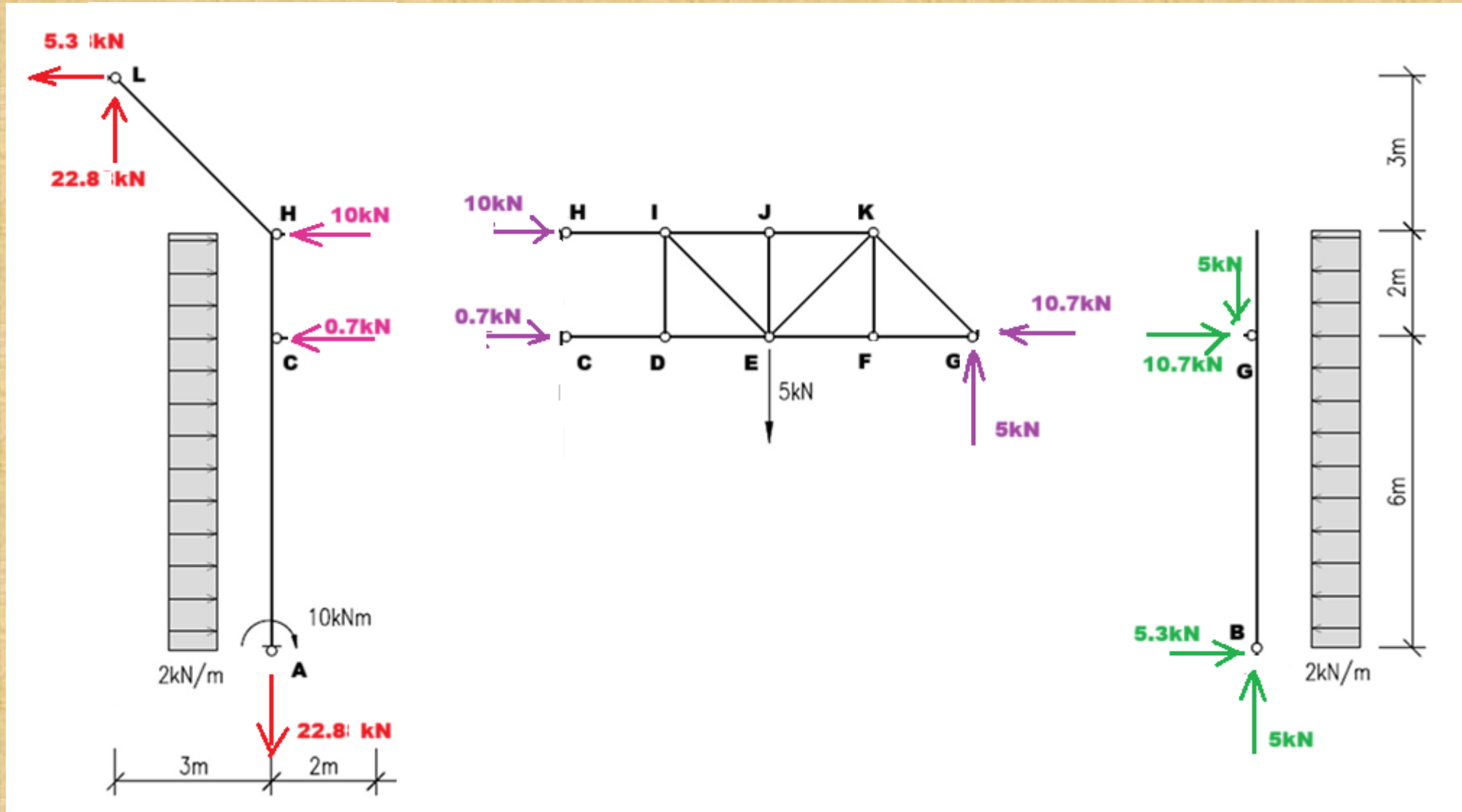
EJERCICIOS ESTRUCTURAS MIXTAS



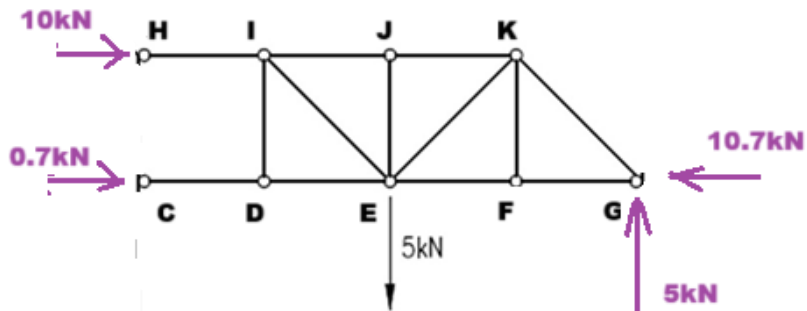
EJERCICIO 1



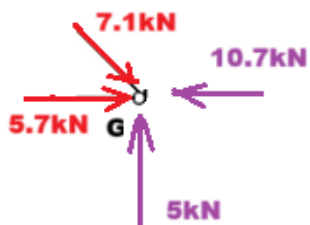
Equilibrio de cada parte



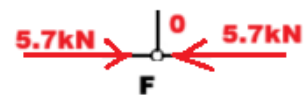
Método de los nudos



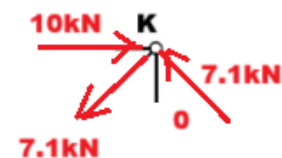
Nudo G



Nudo F



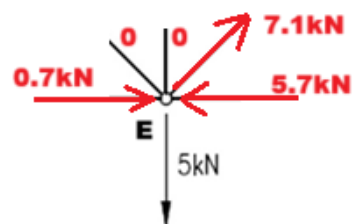
Nudo K



Nudo I



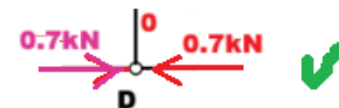
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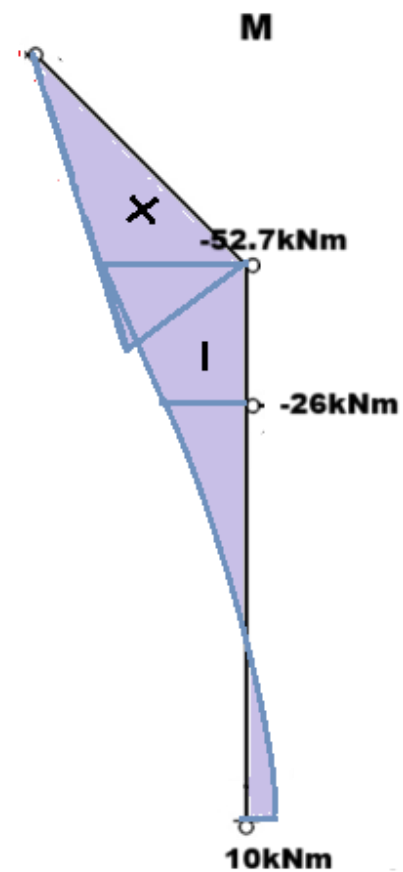
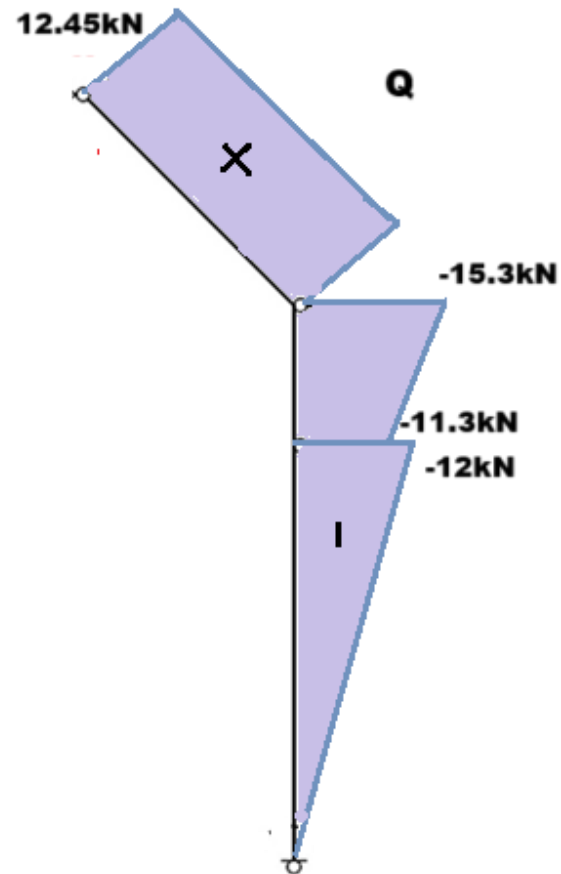
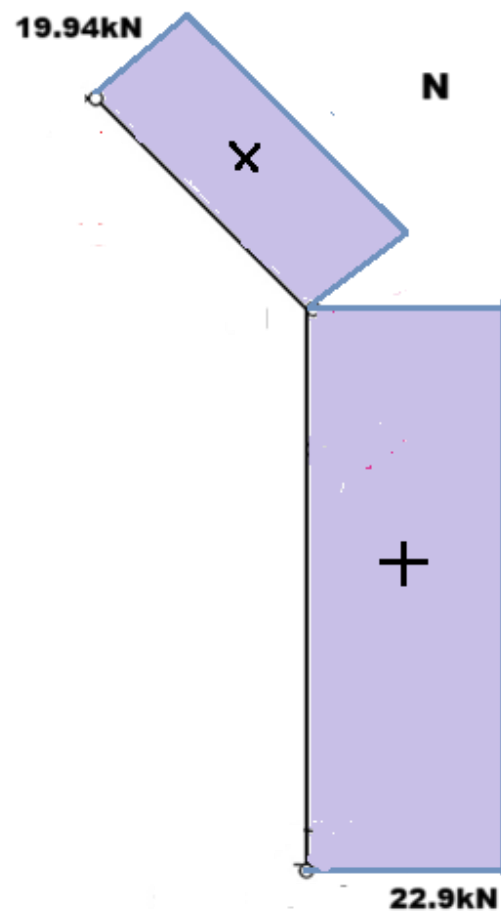
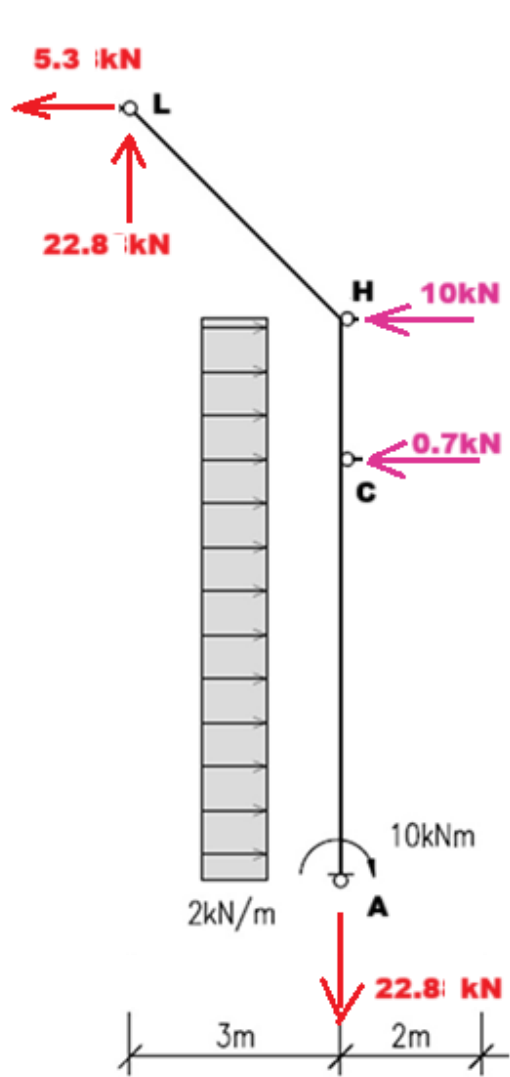


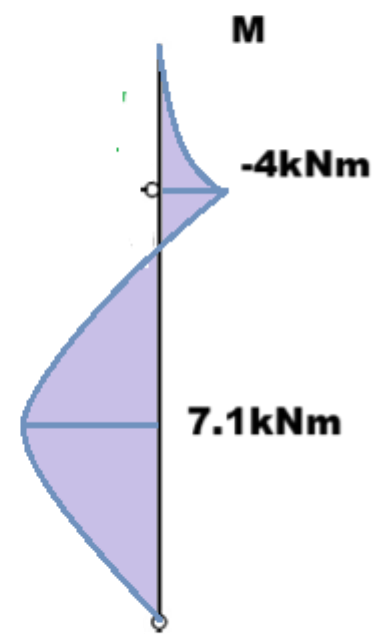
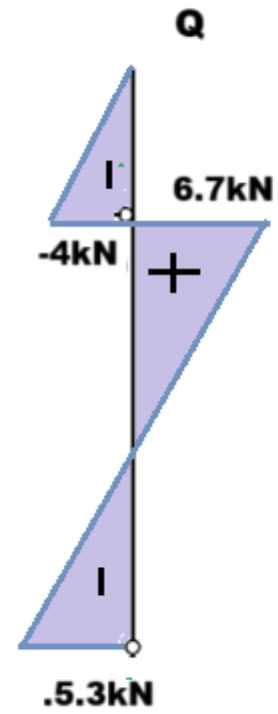
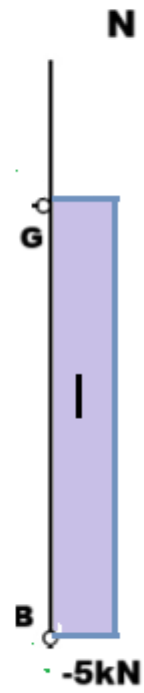
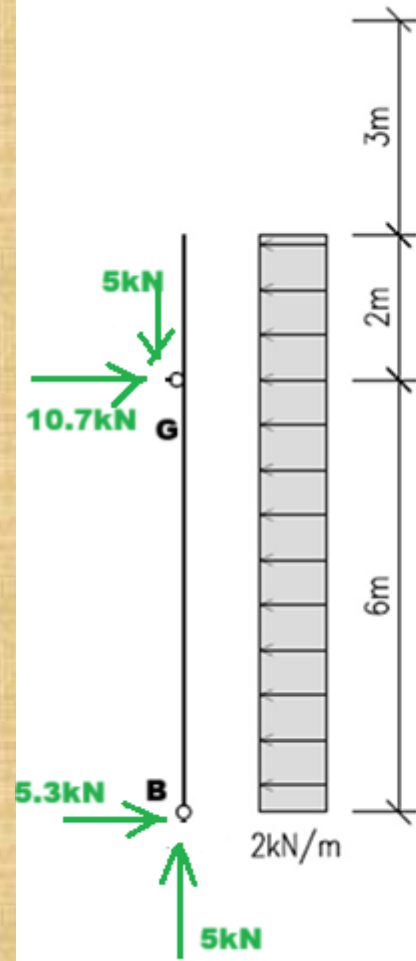
Nudo J



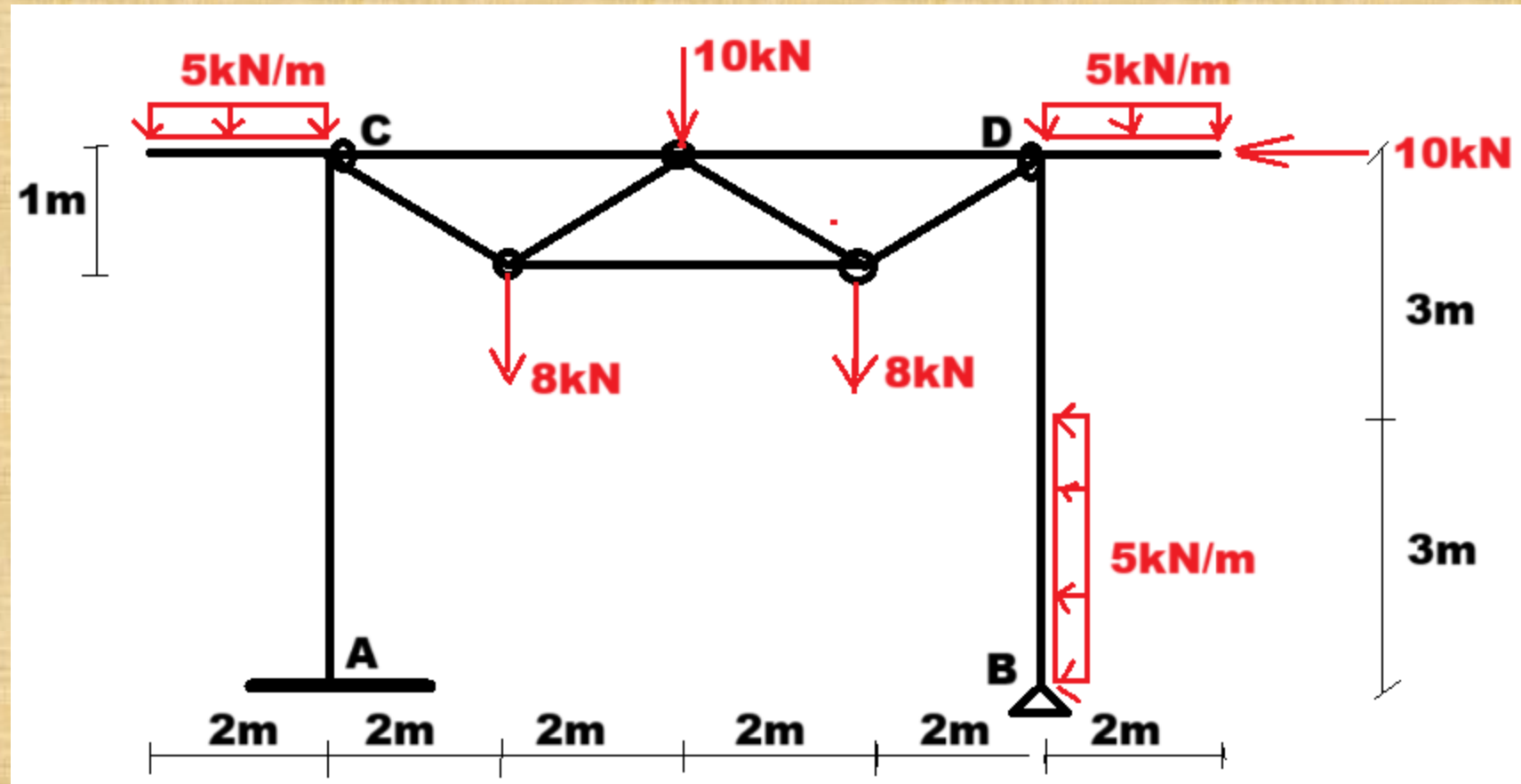
Nudo D

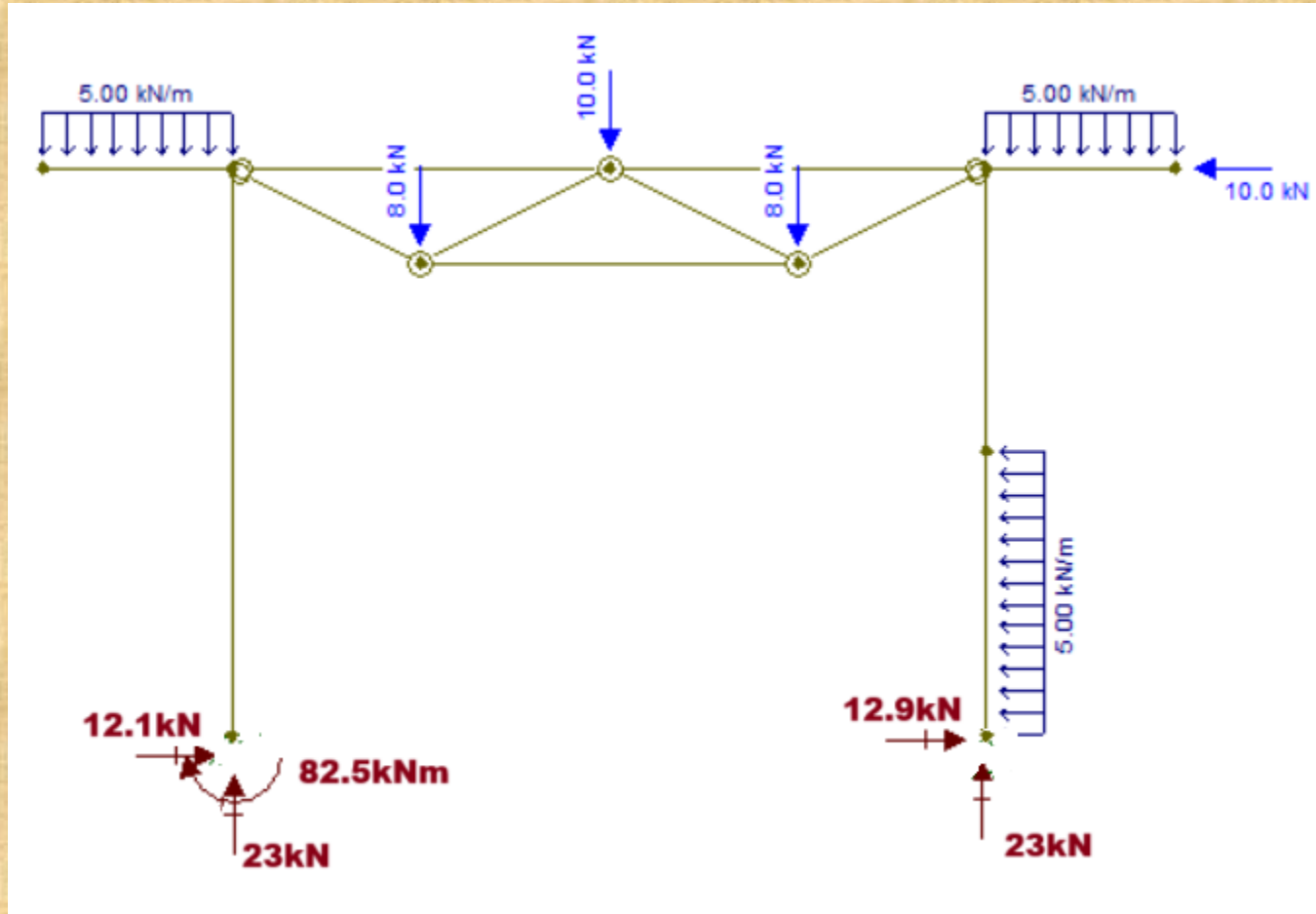


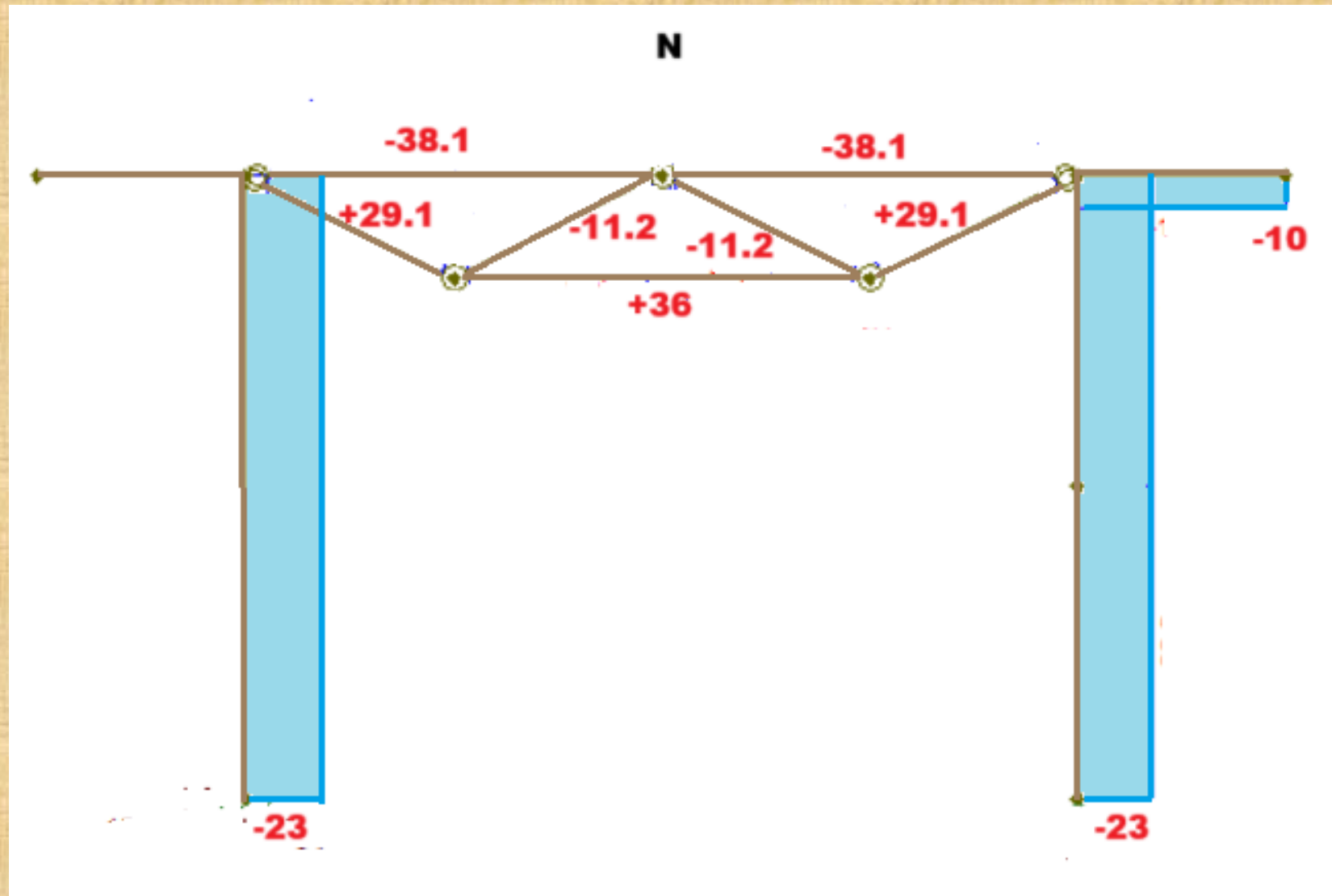


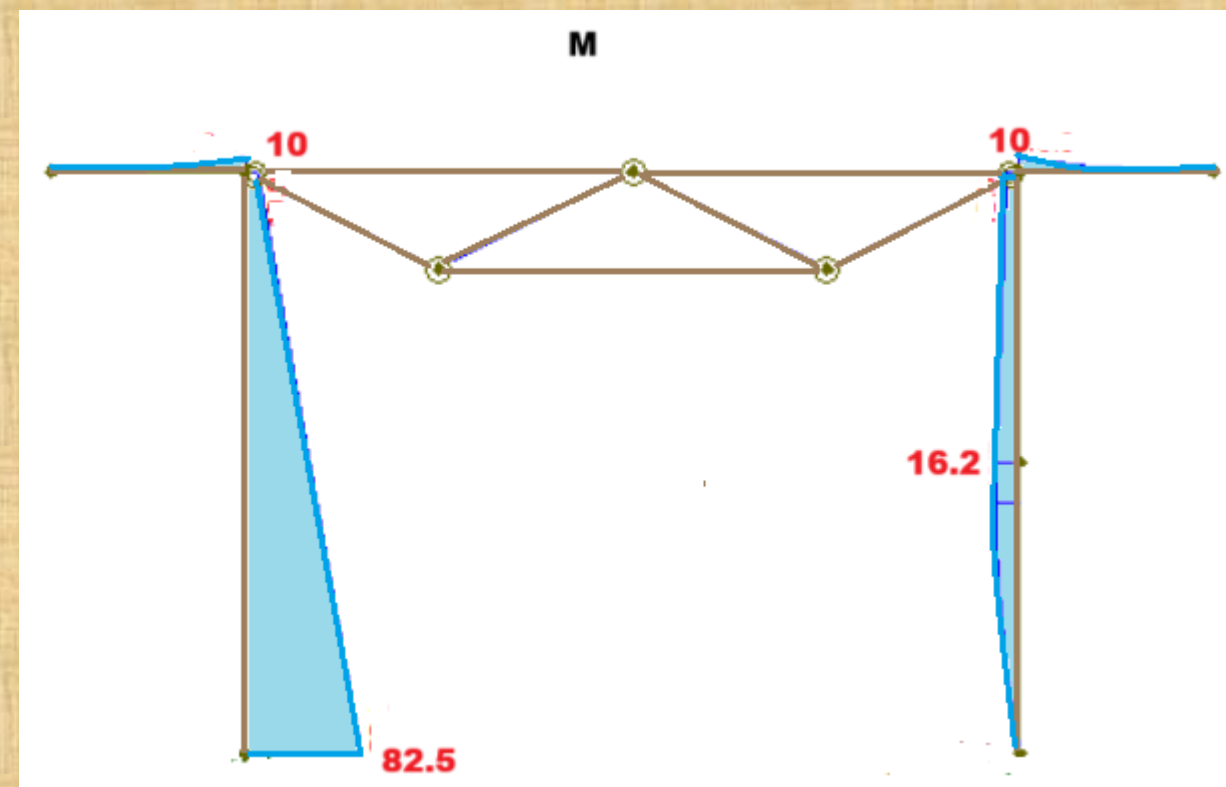
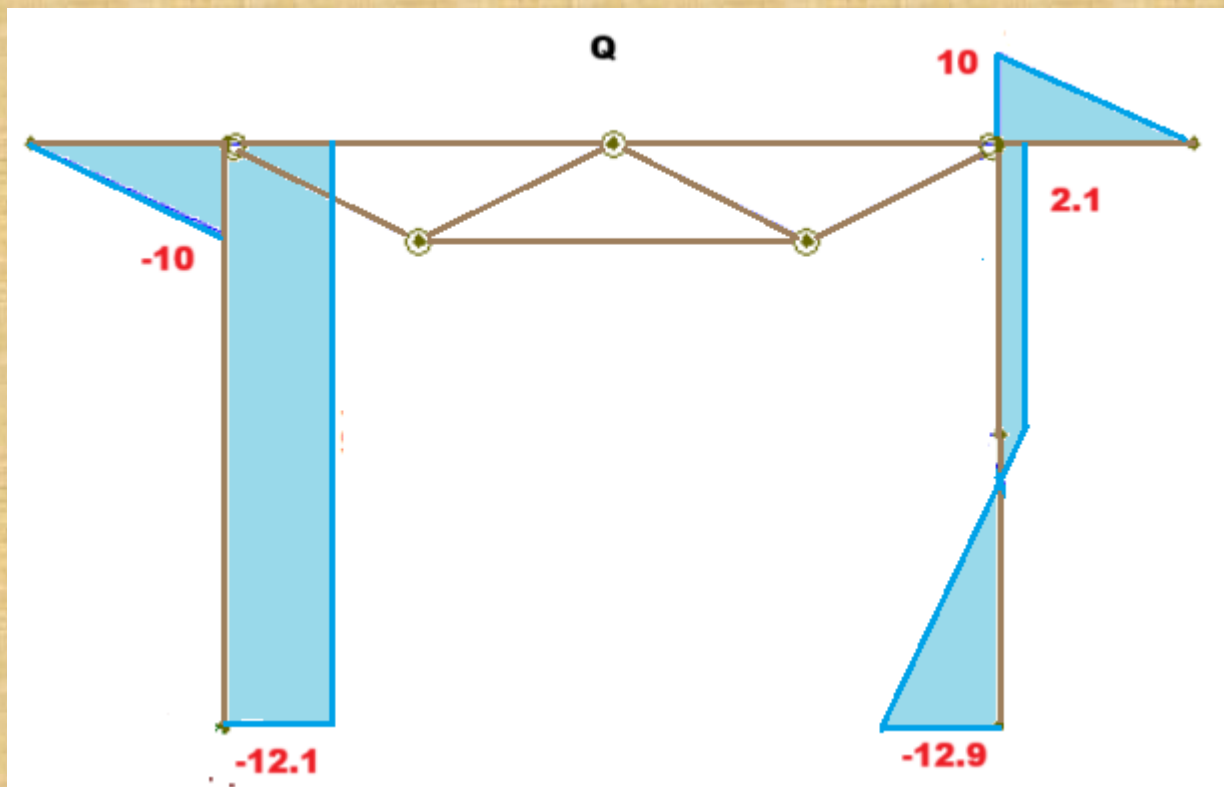


EJERCICIO 2

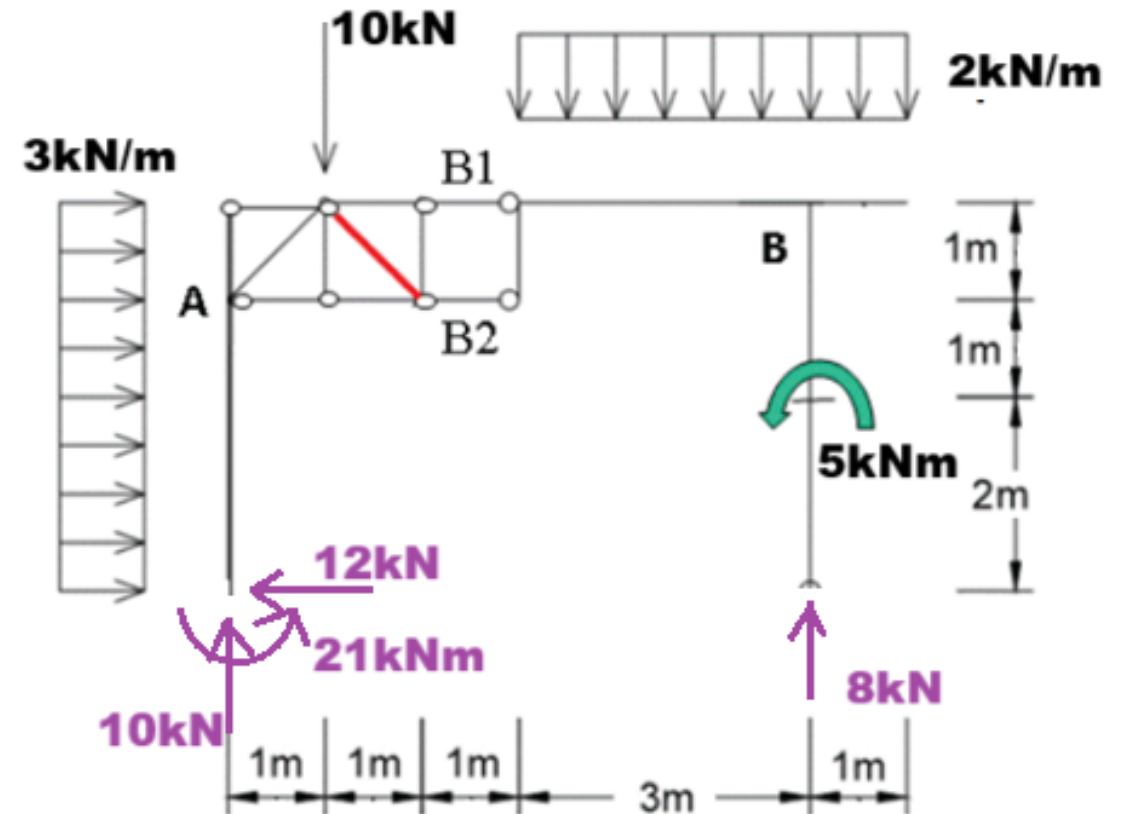
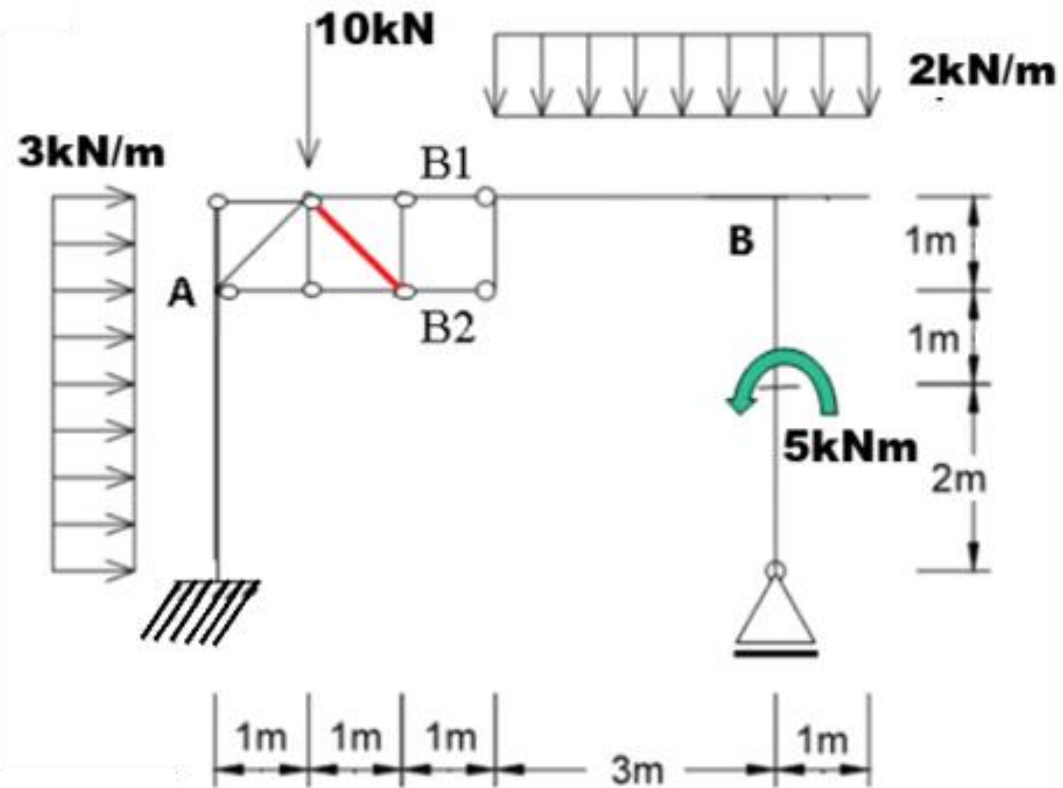


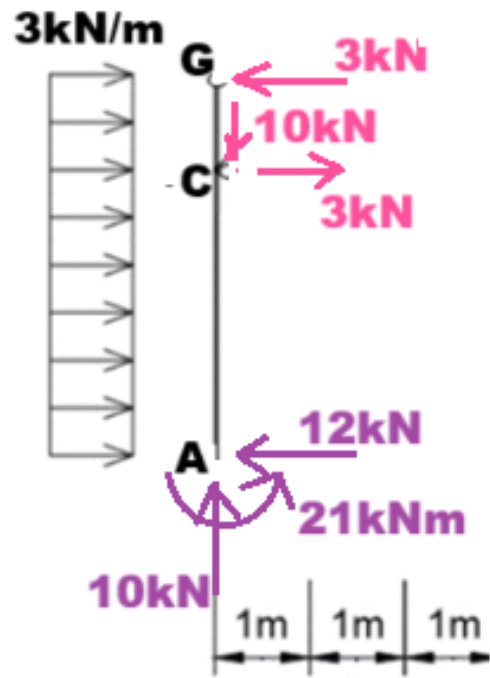






EJERCICIO 3

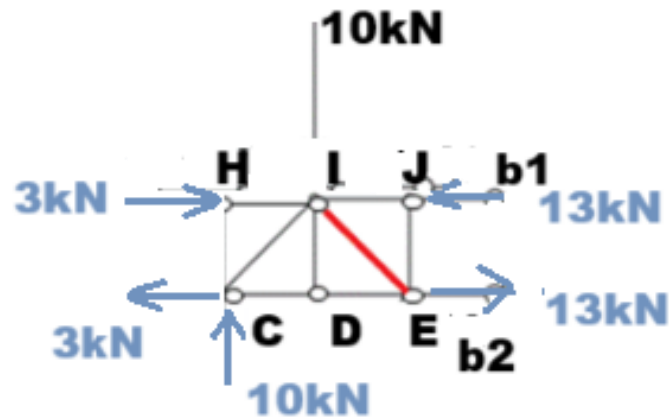




$$\sum M_A = 0 \quad M_A = 21 \text{ kNm}$$

$$\sum F_x = 0 \quad H_A = 12 \text{ kN}$$

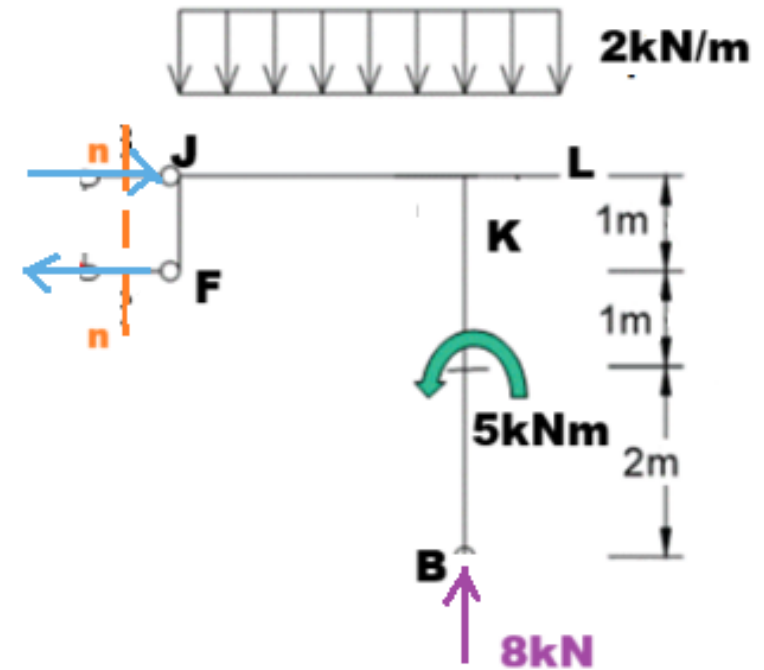
$$\sum F_y = 0 \quad V_A = 10 \text{ kN}$$



$$\sum M_C^{s2} = 0 \quad \overline{GH} = 3 \text{ kN}$$

$$\sum F_x^{s2} = 0 \quad H_C = 3 \text{ kN}$$

$$\sum M_E^{s2} = 0 \quad V_C = 10 \text{ kN}$$



$$\sum F_y^{s3} = 0 \quad V_B = 8 \text{ kN}$$

$$\sum M_j^{s3} = 0 \quad b_2 = 13 \text{ kN}$$

$$\sum F_x^{s3} = 0 \quad b_1 = 13 \text{ kN}$$



