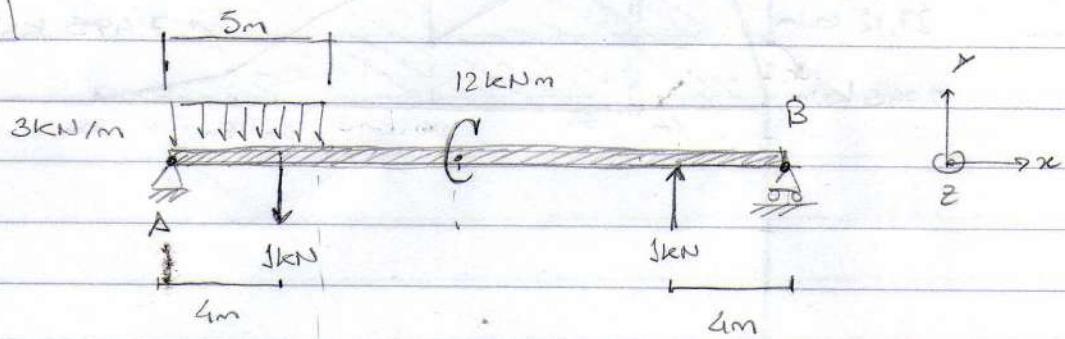
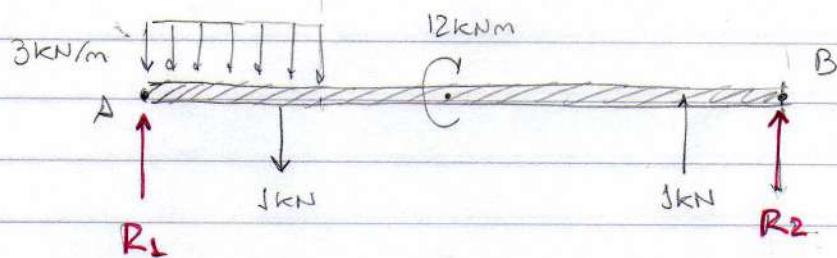


2º P 2025

Problema 1



\Rightarrow DCL AB



$$\Rightarrow \sum F_y = 0 \quad \Rightarrow \quad R_1 + 1\text{kN} + R_2 = 1\text{kN} + 3\text{kN} \times 5\text{m}$$

$$\Rightarrow R_1 + R_2 = 15\text{ kN} \quad (1)$$

$$\Rightarrow \sum M_A = 0 \quad \Rightarrow \quad 3\text{kN} \times 5\text{m} \times 2,5\text{m} + 1\text{kN} \times 9\text{m} + 12\text{kNm} = 1\text{kN} \times 16\text{m} + R_2 \times 20\text{m}$$

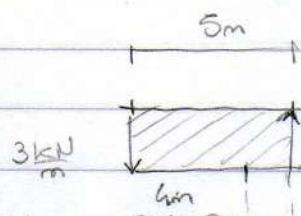
$$\Rightarrow 37,5\text{ kNm} + 9\text{kNm} + 12\text{kNm} = 16\text{kNm} + 20\text{m} \times R_2$$

$$37,5\text{ kNm} = 20\text{m} \times R_2 \Rightarrow R_2 = 1,875\text{ kN} \quad (2)$$

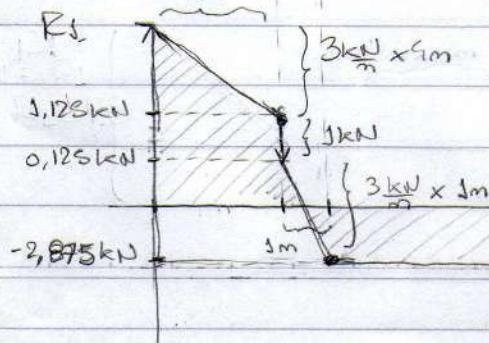
$$\Rightarrow (1) \times (2) \Rightarrow R_1 = 13,125\text{ kN}$$

Diagramas:

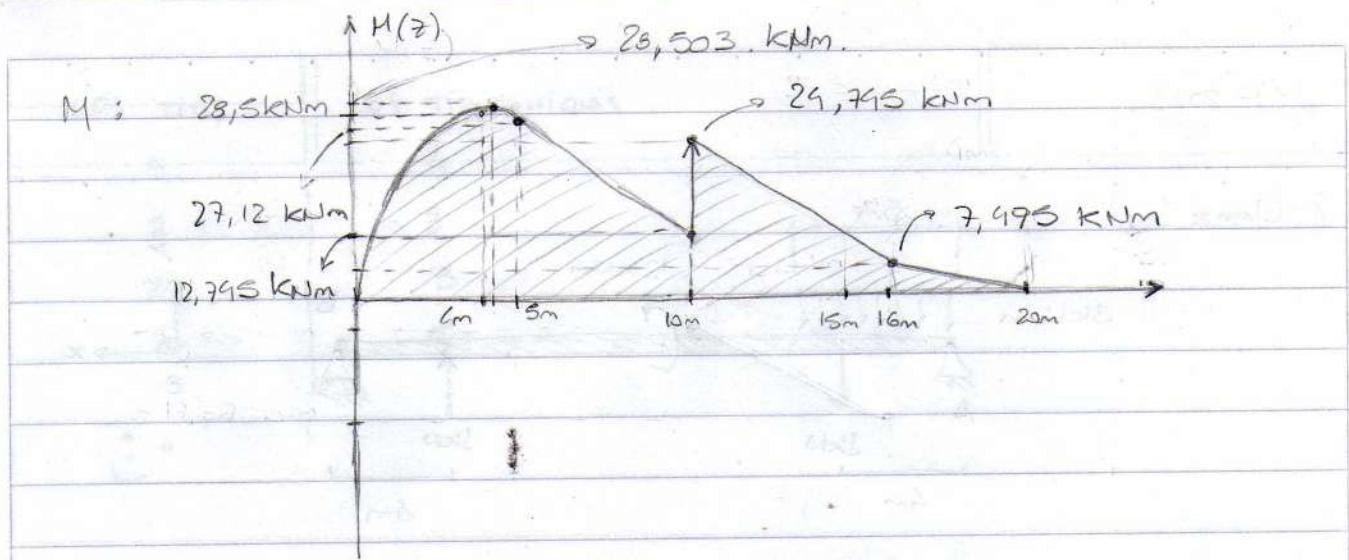
Q:



V:



Convención:



$$10 \times 29.8 = 298 \text{ N} \quad \leftarrow \text{Gesamtgewicht}$$