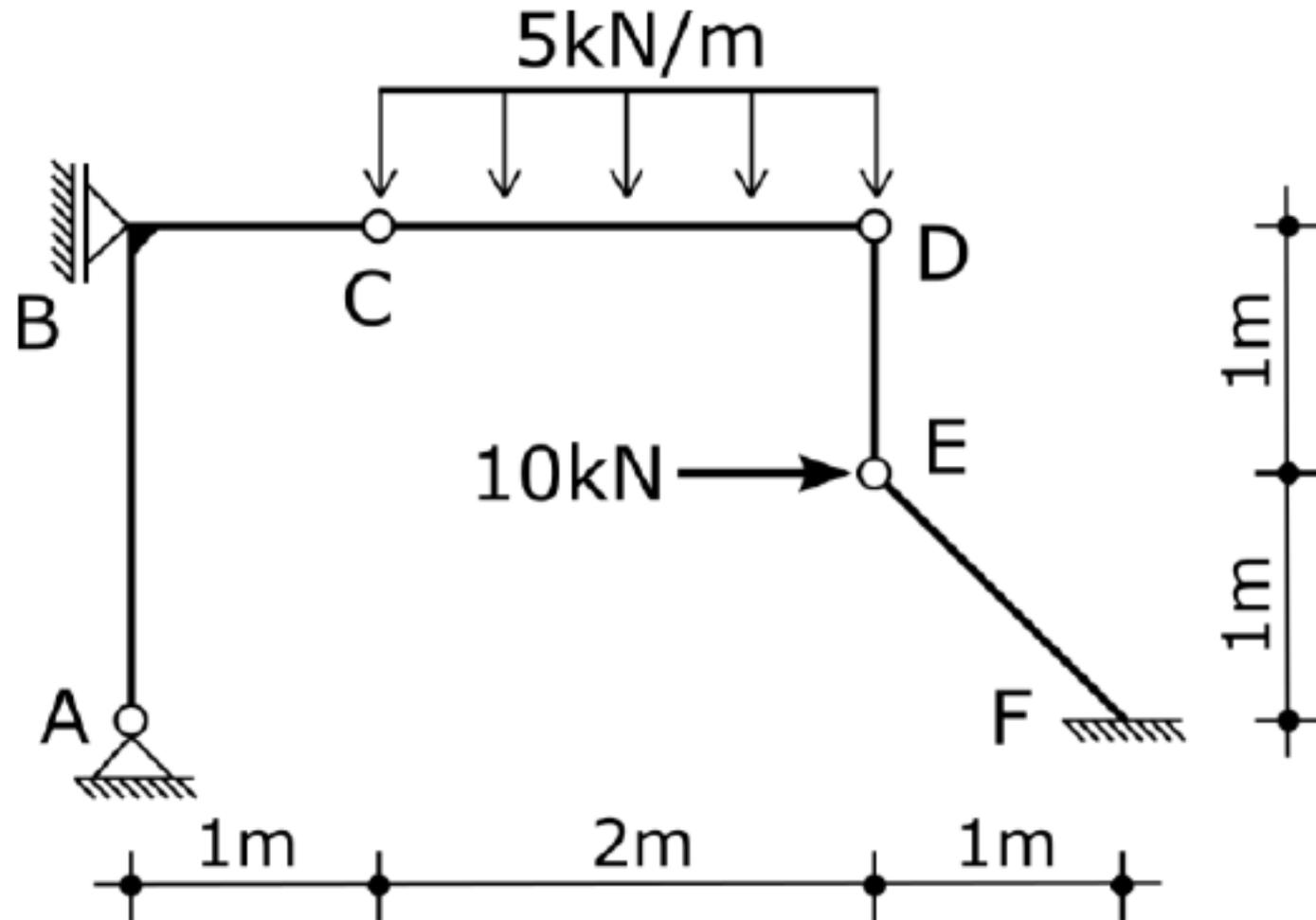
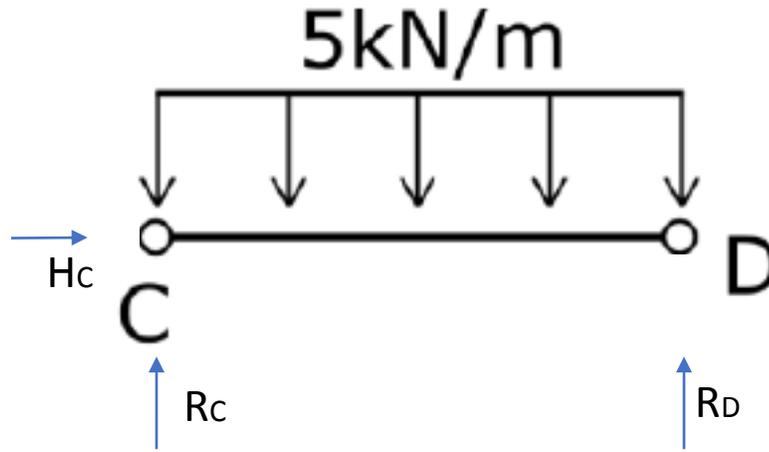
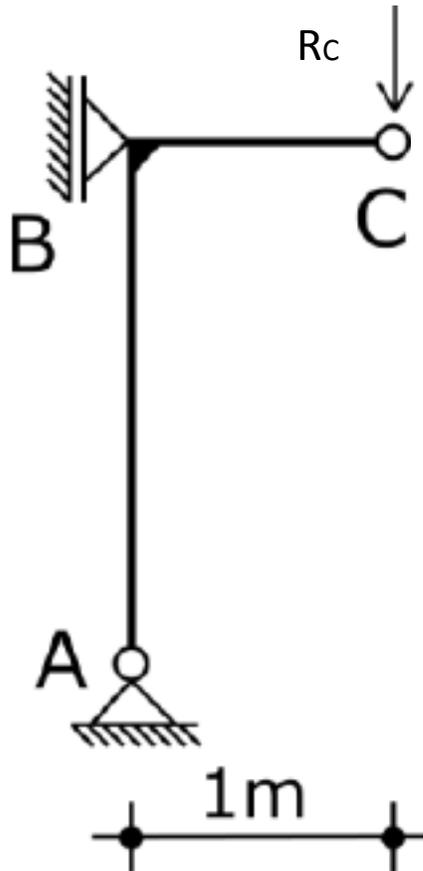


Hallar las reacciones

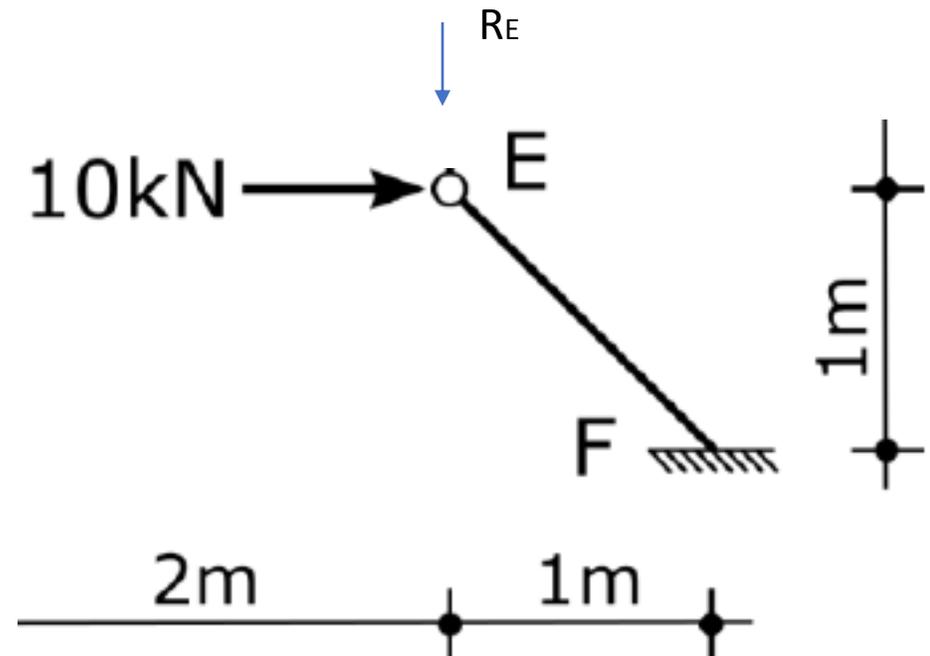
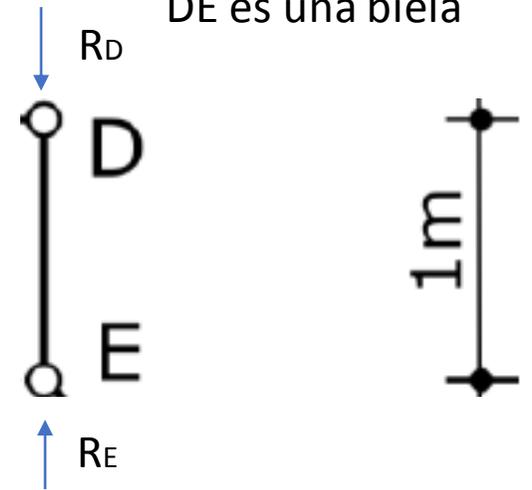


CD puede modelarse como una
Viga Simplemente Apoyada

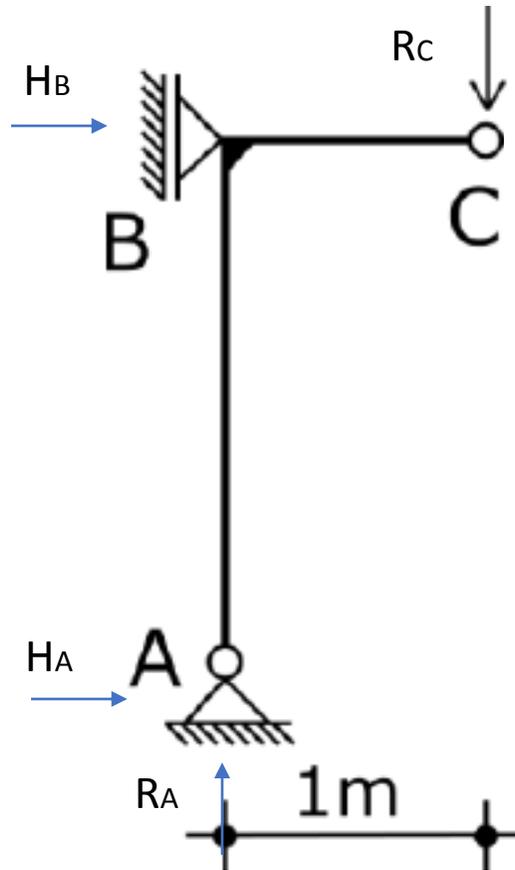


$$\begin{aligned} \text{Suma } F_v &= 0 \\ R_c + R_D &= 5 \text{ kN/m} \times 2\text{m} \\ \text{Suma}(M_c) &= 0 \\ 5 \times 2\text{m} \times 1\text{m} - 2 \times R_D &= 0 \\ R_D &= 5 \text{ kN} \\ R_C &= 5 \text{ kN} \end{aligned}$$

DE es una biela



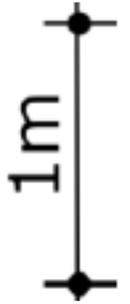
ABC puede verse como una viga SA en AB con
Un voladizo en BC



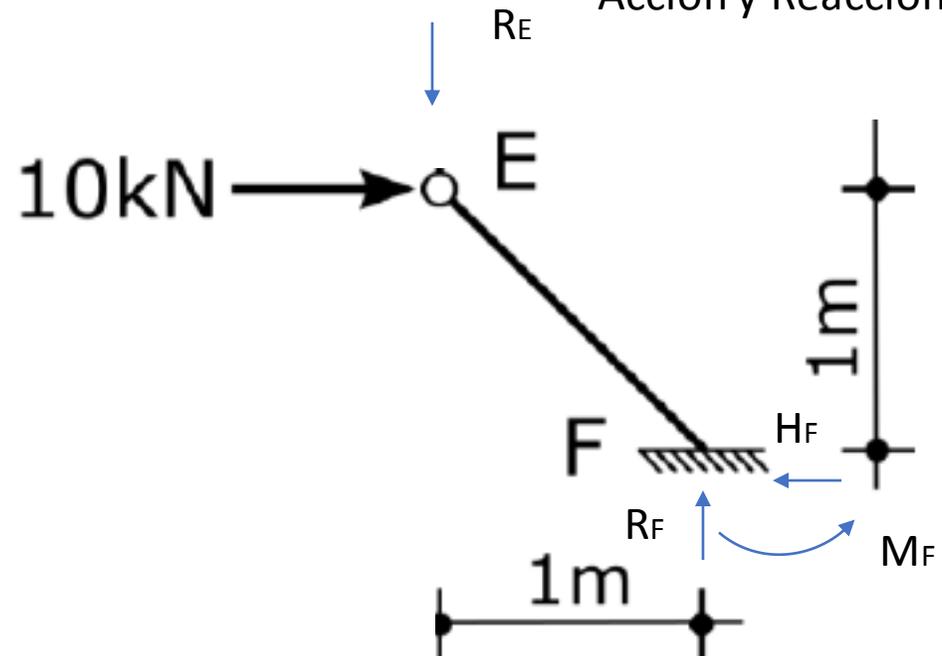
$$\begin{aligned} \text{Suma } F_v &= 0 \\ R_A - 5 \text{ kN} &= 0 \\ R_A &= 5 \text{ kN} \\ \text{Suma } F_H &= 0 \\ H_B + H_A &= 0 \\ \text{Suma}(M_A) &= 0 \\ 2 \text{ m} \times H_B + 1 \text{ m} \times R_C &= 0 \\ H_B &= 5/2 = -2.5 \text{ kN} \\ H_A &= 2.5 \text{ kN} \end{aligned}$$

DE es una biela

$$\begin{aligned} \text{Suma } F_v &= 0 \\ R_E - R_D &= 0 \\ R_E - 5 \text{ kN} &= 0 \\ R_E &= 5 \text{ kN} \end{aligned}$$



Acción y Reacción



$$\sum F_v = 0$$

$$R_E - R_F = 0$$

$$R_F = 5 \text{ kN}$$

$$\sum F_H = 0$$

$$H_F - 10 \text{ kN} = 0$$

$$H_F = 10 \text{ kN}$$

$$\sum (M_F) = 0$$

$$M_F + 1 \text{ m} \times 5 \text{ kN} - 1 \text{ m} \times 10 \text{ kN} = 0$$

$$M_F = 5 \text{ kNm}$$

