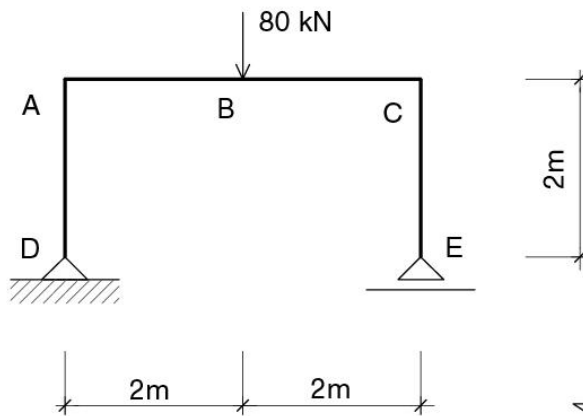
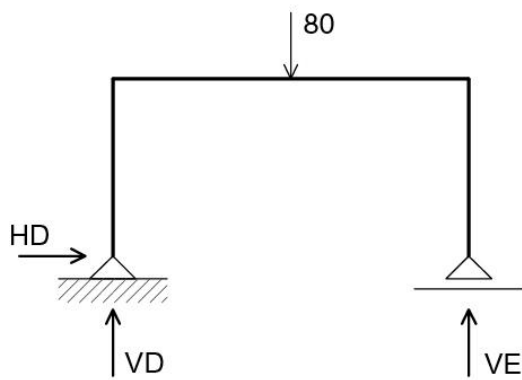


Determinar as reações de apoio da estrutura abaixo:



$$\sum H = 0$$

$$H_D = 0$$



$$\sum V = 0$$

$$V_D - 80 + V_E = 0$$

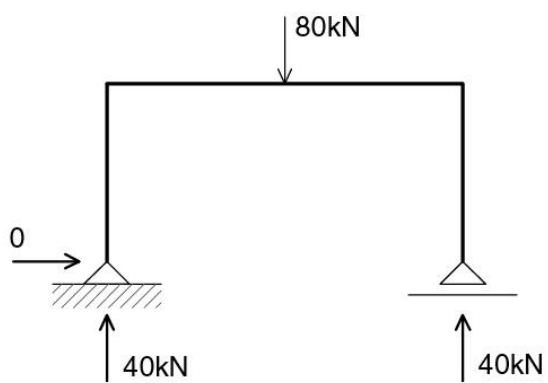
$$V_D + V_E = 80$$

$$\sum M_D = 0 \text{ (ponto D)}$$

$$-(80 \cdot 2) + (V_E \cdot 4) = 0$$

$$4 V_E = 160$$

$$V_E = 40 \text{ kN}$$



$$V_D + V_E = 80$$

$$V_D = 80 - 40$$

$$V_D = 40 \text{ kN}$$