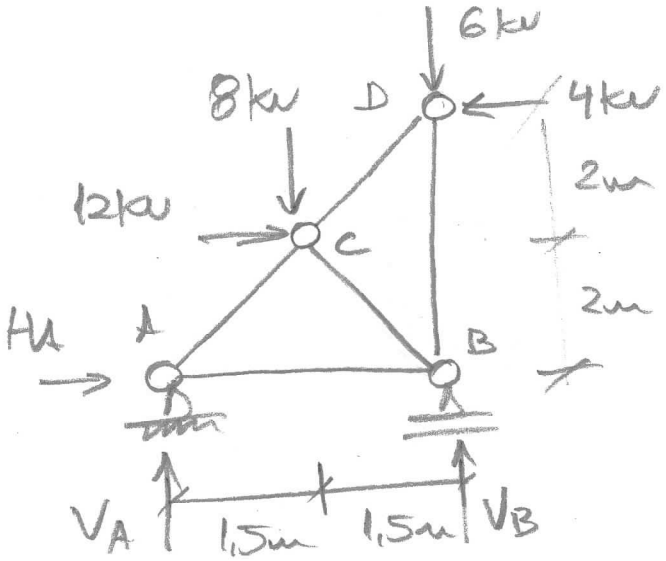
TEI-2.4



Cálculo das reacções de apoio:

$\Sigma F_H = 0 \rightarrow \oplus$

$H_A + 12kN - 4kN = 0$

$H_A = 4 - 12 = -8kN$

$\boxed{H_A = 8kN \leftarrow}$

$\Sigma M_A = 0 \; \circlearrowleft \oplus \quad V_B \times 3m - 12kN \times 2m + 4kN \times 4m - 8kN \times 1,5m - 6kN \times 3m = 0$

$V_B = \frac{1}{3}(12 \times 2 - 4 \times 4 + 8 \times 1,5 + 6 \times 3) = +12,667kN$

$\boxed{V_B = 12,667kN \uparrow}$

$\Sigma F_V = 0 \uparrow \oplus \quad V_A + V_B - 8kN - 6kN = 0$

$V_A = -V_B + 8kN + 6kN = -12,667 + 8 + 6 = 1,3333kN$

$\boxed{V_A = 1,3333kN \uparrow}$