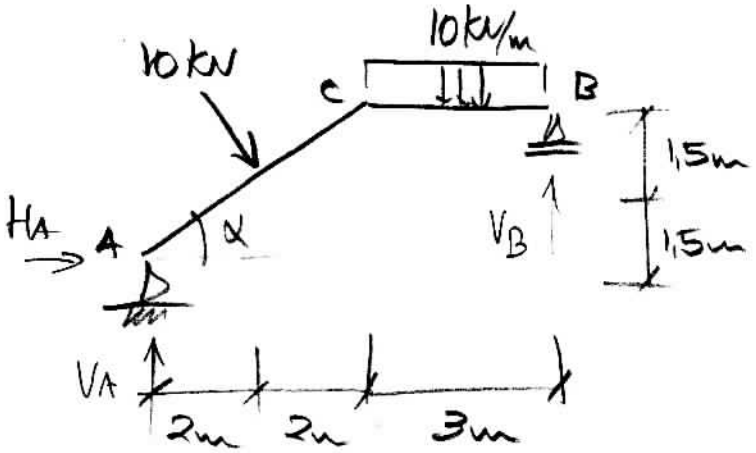
TE1-2.2



$\cos\alpha = 4/5$

$\operatorname{sen}\alpha = 3/5$

$\circlearrowleft^{+} \quad \Sigma M_A = 0 \qquad -V_B \times 7 + 10 \times 2{,}5 + 10 \times 3 \times (4 + 1{,}5) = 0$

$V_B = \frac{1}{7}(25 + 30 \times 5{,}5) = \underline{27{,}143\ kN \uparrow}$

$\rightarrow^{+} \quad \Sigma F_H = 0 \qquad H_A + 10 \times \operatorname{sen}\alpha = 0 \qquad H_A = -10 \times \frac{3}{5} = -6\ kN$

$\underline{H_A = 6\ kN \leftarrow}$

$\uparrow^{+} \quad \Sigma F_V = 0 \qquad V_A - 10kN\cos\alpha - 10\frac{kN}{m} \times 3m + 27{,}143\ kN = 0$

$V_A = 10 \times 4/5 + 30 - 27{,}143 = \underline{10{,}857\ kN \uparrow}$