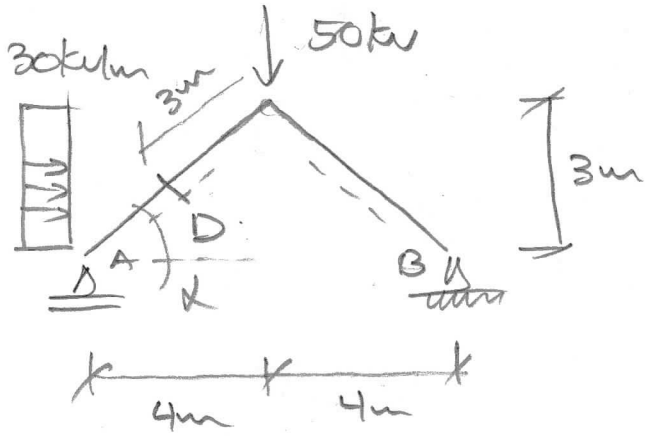
B2T4MA@5@6 — 0,7 PONTOS



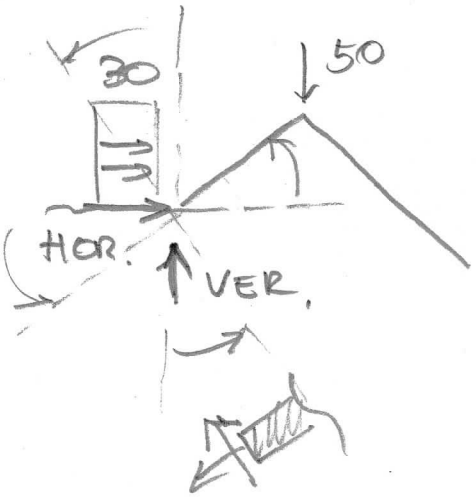
Q01) V_D ?

Q02) N_D ?

Q03) M_D ?

$\sum M_{/B} = 0 \quad (\curvearrowleft +) \quad V_A \times 8 - 50 \times 4 + 30 \times 3 \times 1{,}5 = 0$

$V_A = 1/8\,(50 \times 4 - 90 \times 1{,}5) = 8{,}125\ kN \uparrow$



$\cos\alpha = 4/5 \qquad \operatorname{sen}\alpha = 3/5$

$VER = 8{,}125 \uparrow$

$HOR = 30\,kN/m \times \frac{2}{5} \times 3m = 36\ kN \rightarrow$

$V_D = 8{,}125 \cos\alpha - 36 \operatorname{sen}\alpha = \underline{-15{,}1\ kN}$ //

$H_D = -8{,}125 \operatorname{sen}\alpha - 36 \cos\alpha = \underline{-33{,}675\ kN}$ //

$M_D = 8{,}125 \times \frac{2}{5} \times 4 - 30 \times \left(\frac{2}{5} \times 3\right)^2 \times \frac{1}{2} = \underline{-8{,}6\ kN\,m}$ //