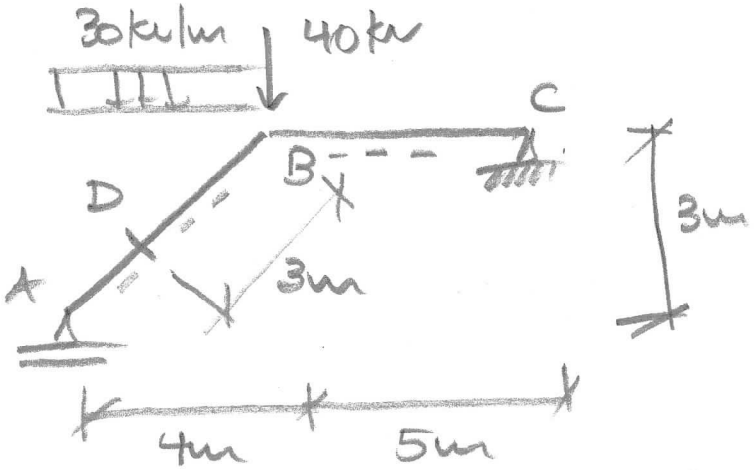
B2T4NA0503



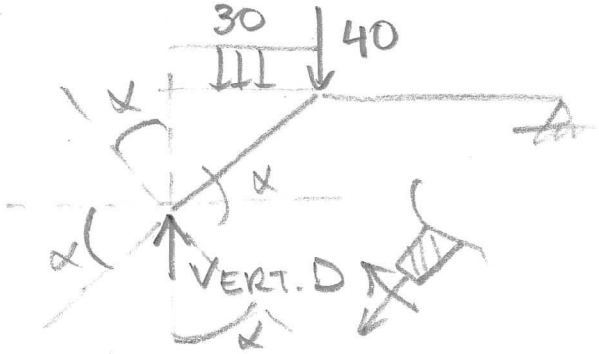
Q01) V_D

Q02) N_D

Q03) M_D

$\Sigma M_C = 0 \circlearrowleft \oplus \quad V_A \times 9 - 40 \times 5 - 30 \times 4 \times 7 = 0$

$V_A = 1/9\,(200 + 210 \times 4) = 1040/9 = 115{,}56\ kN \uparrow$



$VERT_D = 1040/9 - 30 \times 3/5\ 4$

$VERT_D = 608/9 = 67{,}556\ kN \uparrow$

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

$V_D = +608/9 \times \cos\alpha = \underline{+54{,}044\ kN}$

$N_D = -608/9 \times \text{sen}\,\alpha = \underline{-40{,}533\ kN}$

$M_D = 1040/9 \times 2/5 \times 4 - 30 \times (3/5\,4)^2 \times 1/2 = \underline{+146{,}49\ kNm}$