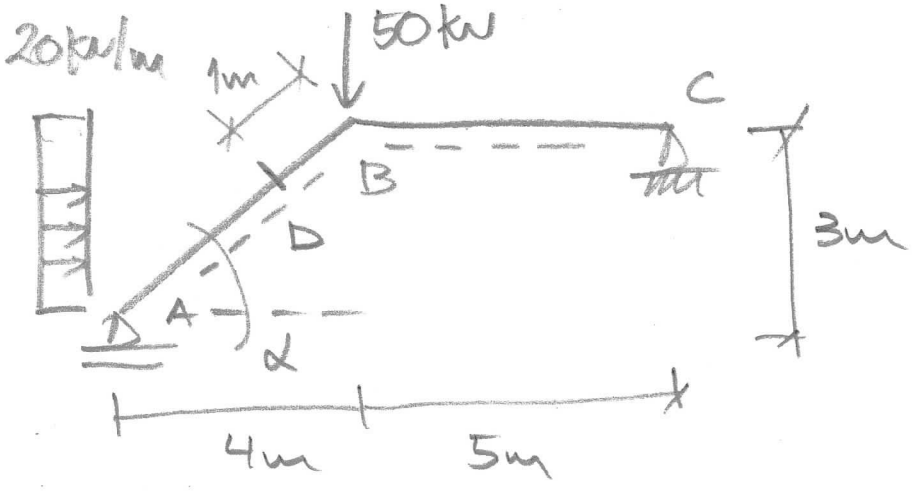
BZ T4NB 0502

Q01) V_D

Q02) N_D

Q03) M_D

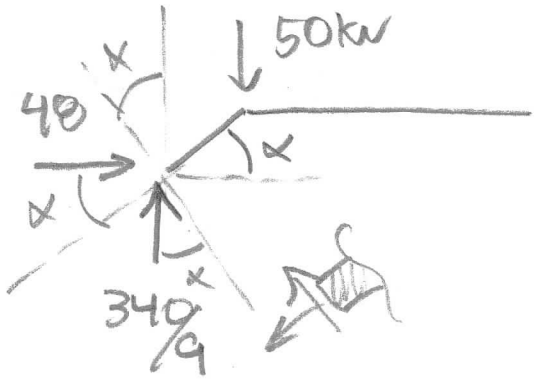


$\Sigma M_C = 0 \circlearrowleft (+) \quad V_A \times 9 - 50 \times 5 - 20 \times 3^2/2 = 0$

$V_A = 1/9 (50 \times 5 + 10 \times 9) = 340/9 \text{ kN}$

$V_{ERT\ D}^{ESQ} = 340/9 \text{ kN}$

$HOR_D^{ESQ} = 20 \times 4/5 \times 3 = 20 \times 2{,}4 = 48 \text{ kN}$



$\cos x = 4/5$

$\text{sen } x = 3/5$

$V_D = 340/9 \times 4/5 - 48 \times 3/5 = +1{,}4222 \text{ kN}$ //

$N_D = -340/9 \times 3/5 - 48 \times 4/5 = -61{,}067 \text{ kN}$ //

$M_D = 340/9 \times 4/5 \times 4 - 20 \times (4/5 \times 3)^2/2 = +63{,}289 \text{ kN.m}$ //