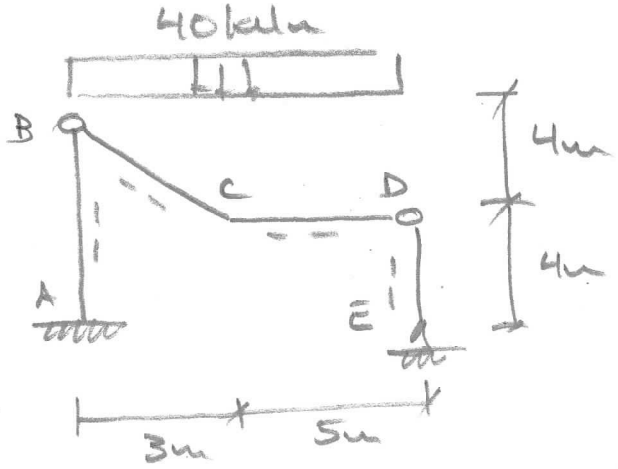
B2T4NB0509

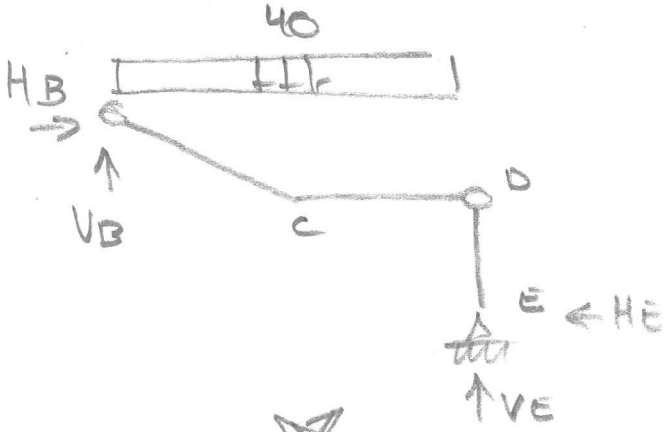


PEDE-SE PARA O MEIO DA BARRA BC:

Q01) M ;

Q02) V ;

Q03) N ;



$\Sigma M_D^{\rightarrow E} = 0 \quad H_E = 0$

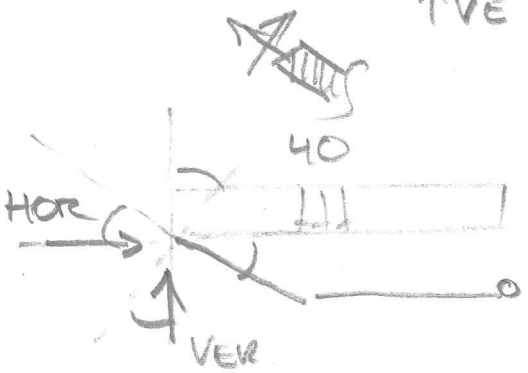
$\Sigma F_H = 0 \quad H_B = 0$

$\Sigma M_E = 0 \ \curvearrowright +$

$V_B \times 8 - 40 \times 8^2/2 = 0$

$V_B = 1/8 (20 \times 8^2) = 160 \text{ kN} \uparrow$

$\Sigma F_V = 0 \quad V_D = 160 \text{ kN} \uparrow$

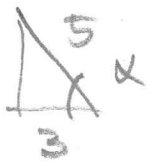


$M_{BC}^{MEIO} = 160 \times 1{,}5 - 40 \times 1{,}5^2/2$

$M_{BC}^{MEIO} = +195 \text{ kN.m}$ //

$HOR = 0$

$VER = 160 - 40 \times 1{,}5 = 100 \text{ kN} \uparrow$



$\cos\alpha = 3/5$

$\text{sen}\alpha = 4/5$

$V_{BC}^{MEIO} = 100 \times \cos\alpha = +60 \text{ kN}$ //

$N_{BC}^{MEIO} = 100 \times \text{sen}\alpha = +80 \text{ kN}$ //