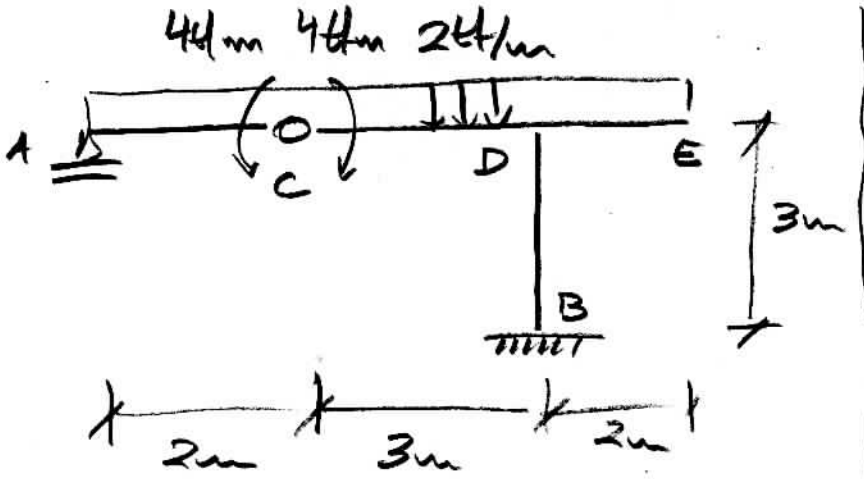
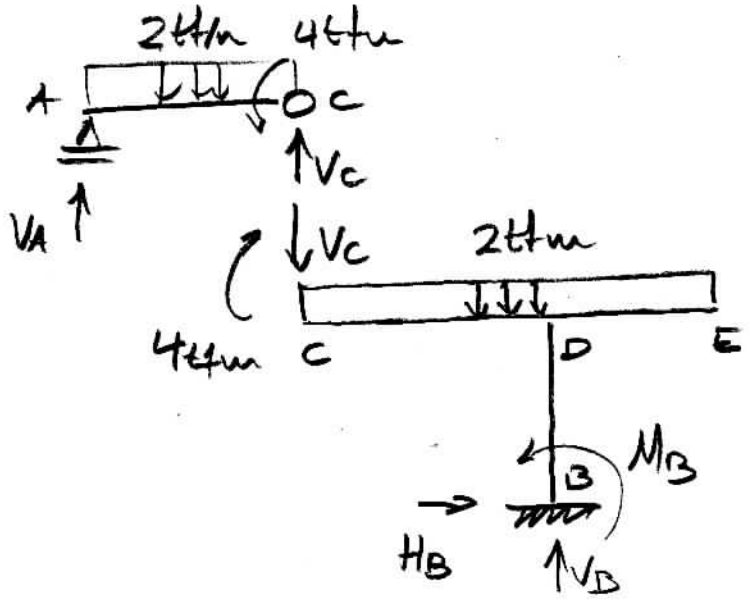
TE1-5.2



DECOMPOSIÇÃO:



TRECHO AC

$\overset{+}{\circlearrowleft} \Sigma M_C = 0$

$-4t/m + V_A \times 2m - 2t/m \times \frac{(2m)^2}{2} = 0$

$V_A = \frac{1}{2}(4+4) = 4t \uparrow$

$\uparrow \overset{+}{\Sigma} F_V = 0$

$V_A - 2t/m \times 2m + V_C = 0$

$V_C = -4 + 4 = 0$

TRECHO CDEB

$M_D^{CD} = 4 - 0 - 2 \times \frac{3^2}{2}$

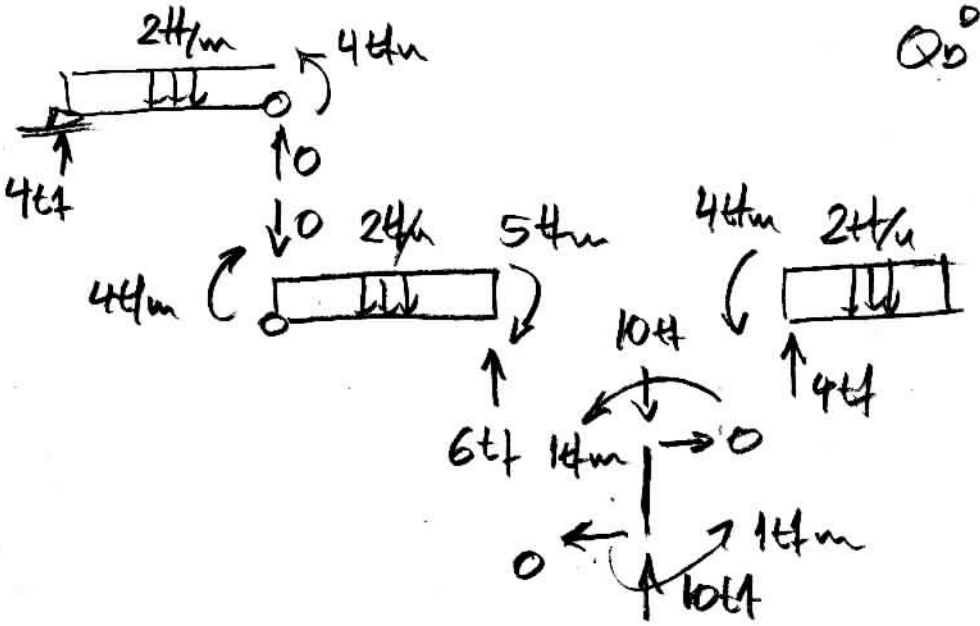
$M_D^{CD} = -5t/m$

$M_D^{ED} = -2 \times \frac{2^2}{2} = -4t/m$

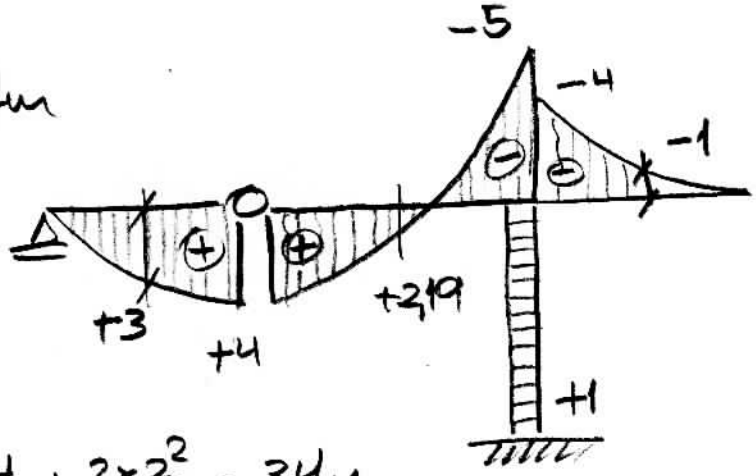
$Q_D^{CD} = 2t/m \times 3m = 6t$

$\rightarrow \overset{+}{\Sigma} F_H = 0 \quad H_B = 0$

$Q_D^{DE} = 2t/m \times 2m = 4t$



(M) tm



$M_{\bar{AC}} = \frac{4}{2} + 2 \times \frac{2^2}{8} = 3\,tm$

$M_{\bar{CD}} = \frac{+4-5}{2} + 2 \times \frac{3^2}{8} =$

$M_{\bar{DE}} = -\frac{4}{2} + 2 \times \frac{2^2}{8} = -1$

(Q) t

