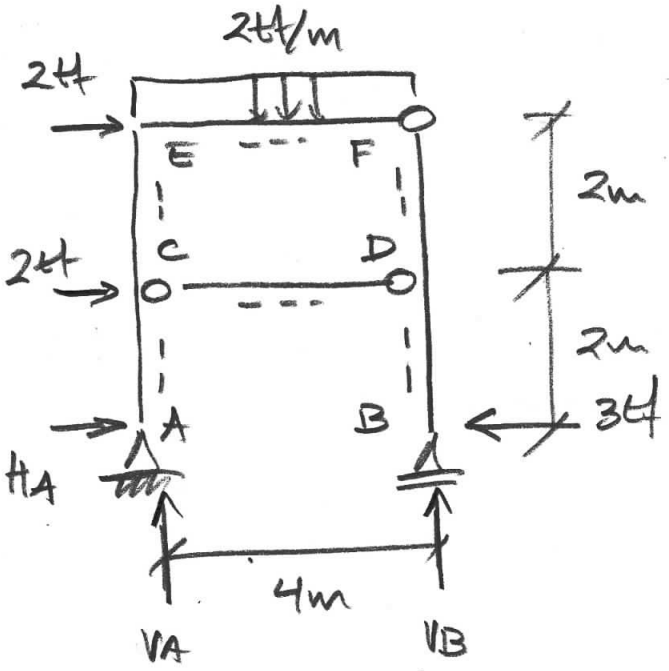
TE1-6.6



$\Sigma F_H = 0 \rightarrow (+)$

$H_A - 3tf + 2tf + 2tf = 0$

$H_A = 3 - 2 - 2 = \boxed{-1tf \leftarrow}$

$\Sigma M_A = 0 \circlearrowleft (+)$

$V_B \times 4m - 2tf \times 4m - 2tf \times 2m$

$2tf/m \times 4m \times 2m = 0$

$V_B = 1/4\,(8 + 4 + 16) = \boxed{7tf \uparrow}$

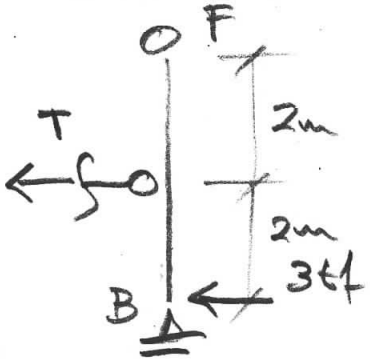
$\Sigma F_V = 0 \uparrow$

$V_A + V_B - 2tf/m \times 4m = 0$

$V_A = 8 - 7 = \boxed{1tf \uparrow}$

$M_C = 1tf \times 2m = +2tfm$

$M_D = -3tf \times 2m = -6tfm$



$\Sigma M_F^{\rightarrow B} = 0 \circlearrowright \quad 3tf \times 4m + T \times 2m = 0$

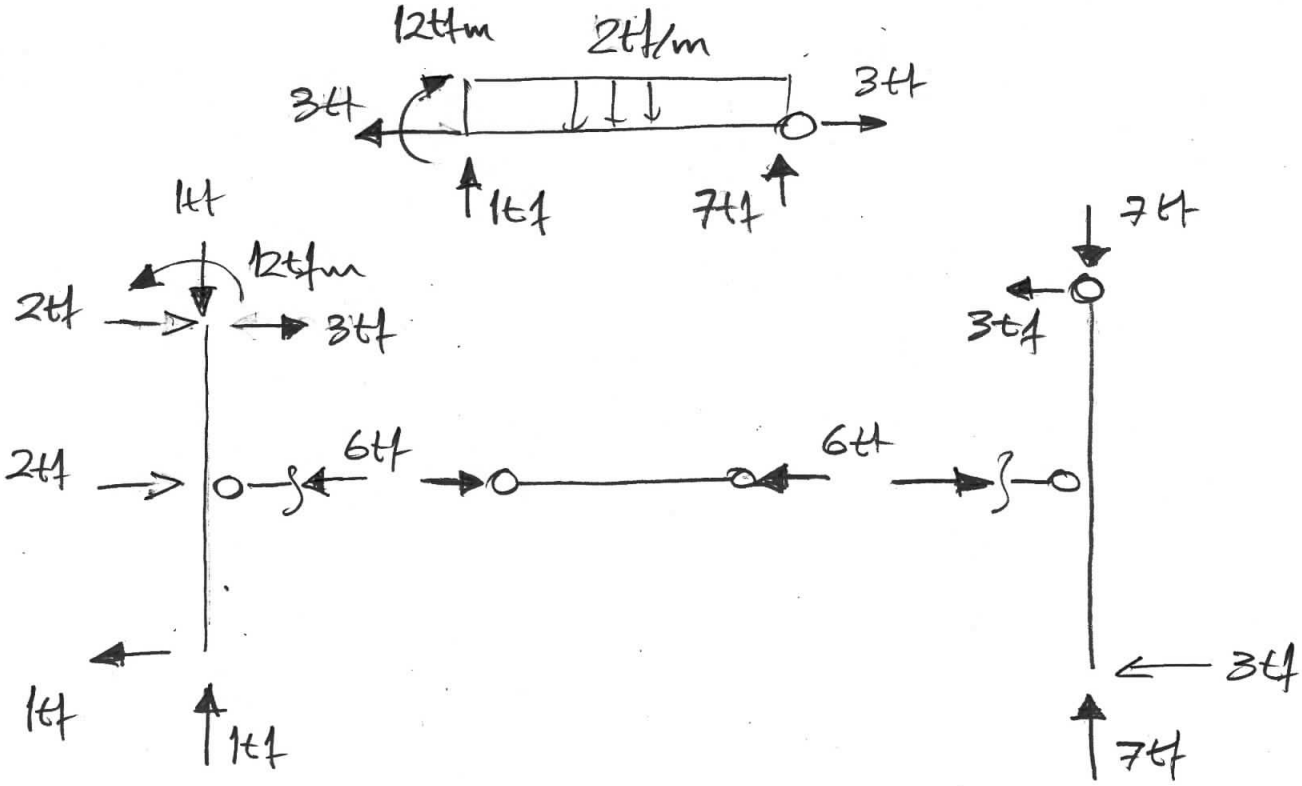
$T = -3 \times 4/2 = -6tfm$ (compressão)

$M_E = 1tf \times 4m - 2tf \times 2m + 6tf \times 2m$

$M_E = +12tfm$

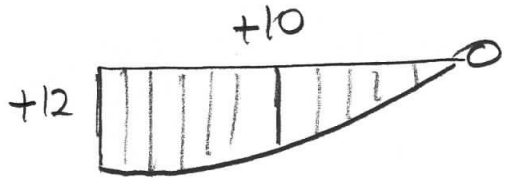
$M_{\overline{EF}} = 12tfm + 1tf \times 2m - 2tf/m \times 2m \times 2m/2 = +10tfm$

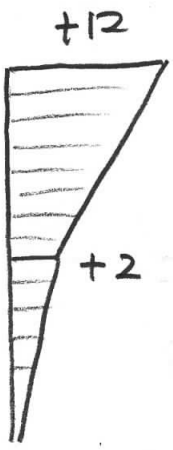
DECOMPONDO A ESTRUTURA:

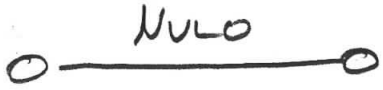


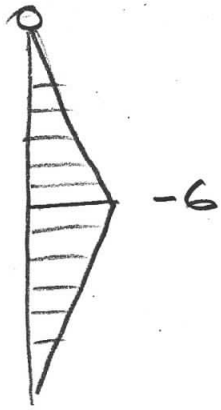
$$Q_F^{EF} = 1tf - 2tf/m \times 4m = 1 - 8 = -7tf$$

(M) [tfm]

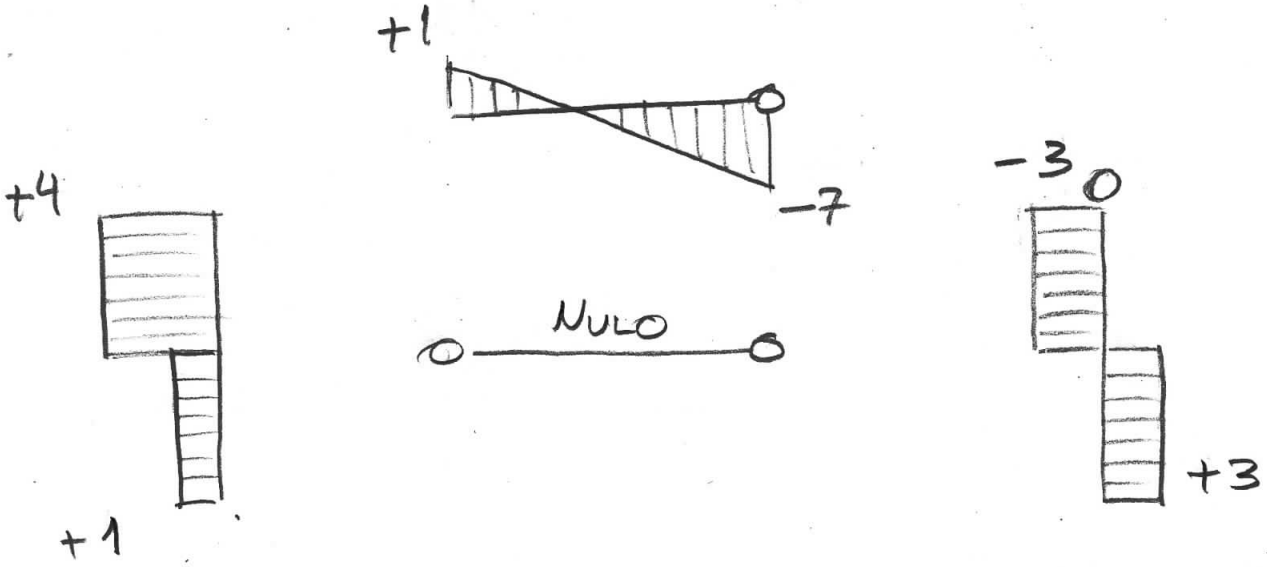








Q [+1]



N [+1]

