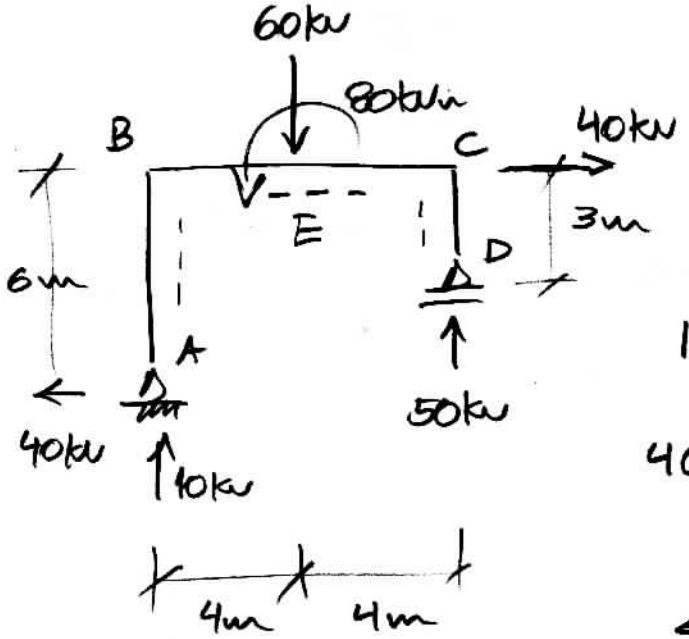
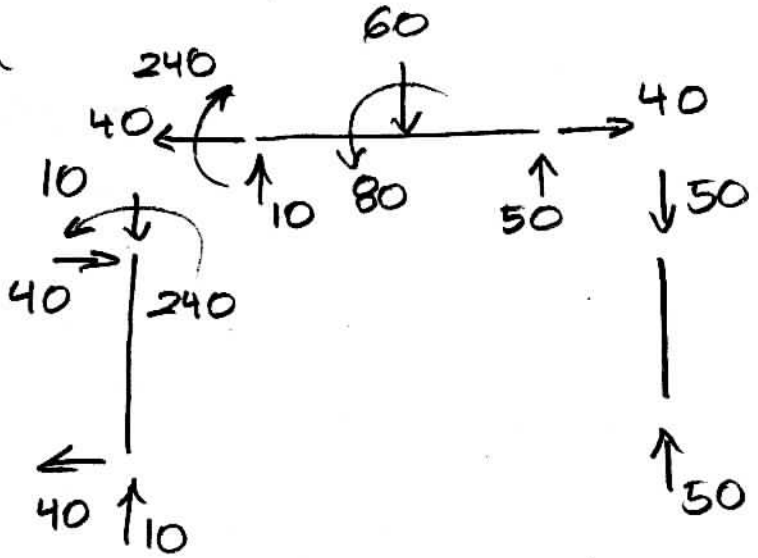
TE1-4.2



• DECOMPONDO E EQUILIBRANDO CADA BARRA



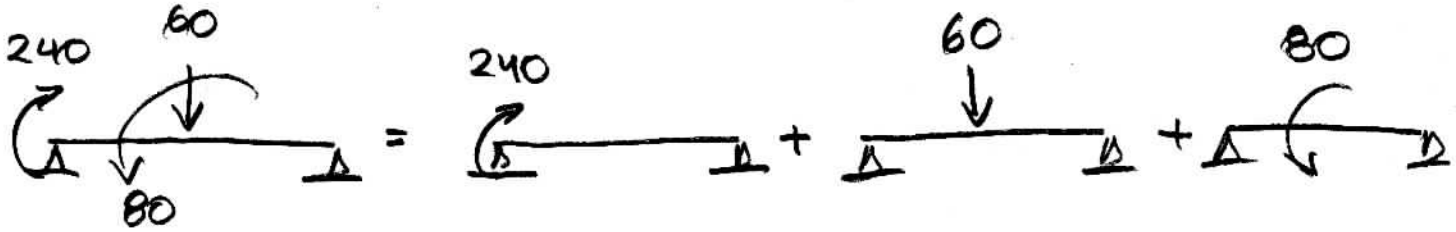
$M_B = 40kN \times 6m = 240kNm$

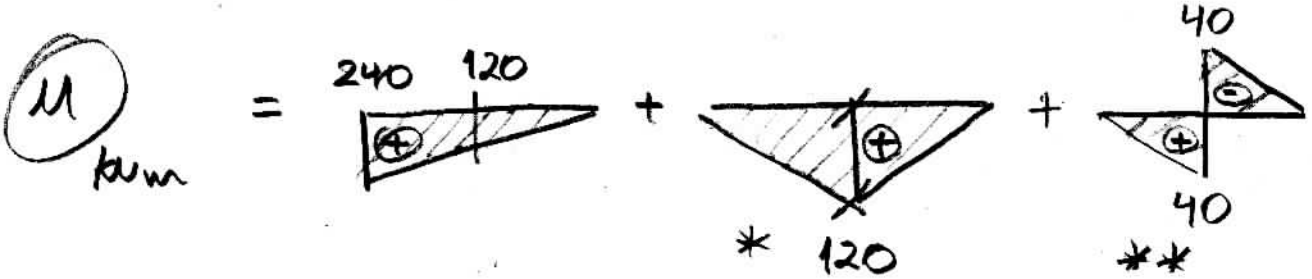
$M_C = 0$ (APOIO D NÃO RESTRINGE DESLOCAMENTO TRANSVERSAL AO EIXO DO PILAR CD)

VERIFICANDO $M_C = 240 + 10 \times 8 - 60 \times 4 - 80 = 0$ CQD.

DIAGRAMA DE MOMENTOS FLETORES:

BARRA BEC





$* \frac{Pab}{L} = 60 \times 4 \times 4/8 = 120\ kNm$

$** \frac{M}{L} = 80/8 = 10\ kN$

$\frac{M}{L} \times a = 10\ kN \times 4\ m = 40\ kNm$

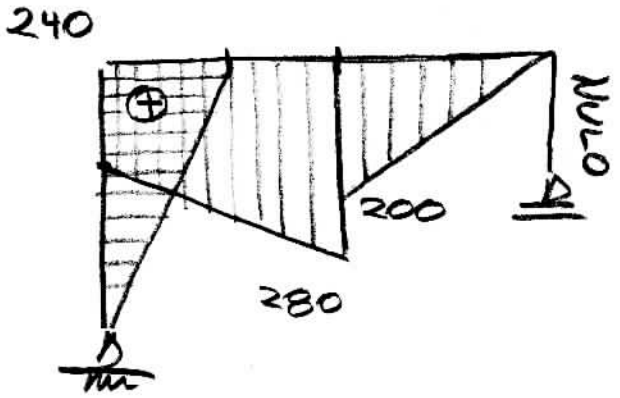
$M_B = 240 + 0 + 0 = +240\ kNm$

$M_E^{ESQ} = +120 + 120 + 40 = +280\ kNm$

$M_E^{DIR} = +120 + 120 - 40 = +200\ kNm$

TRAÇADO:

(M) kNm

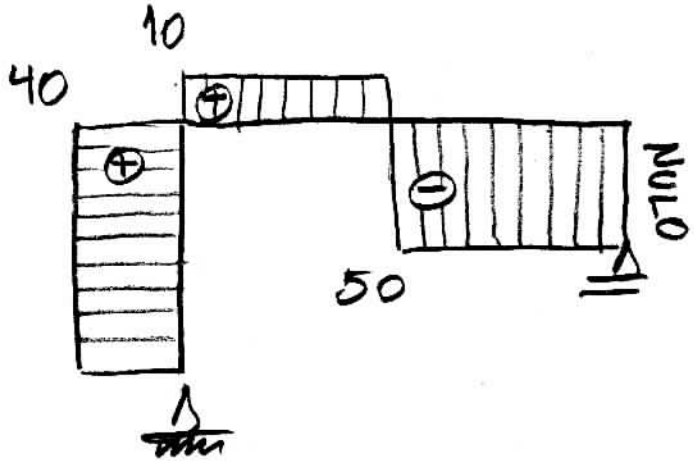


$Q_E^{ESQ} = +10\ kN$

$Q_E^{DIR} = +10\ kN - 60\ kN = -50\ kN$

TRAÇADO

(Q) kN



N KN

