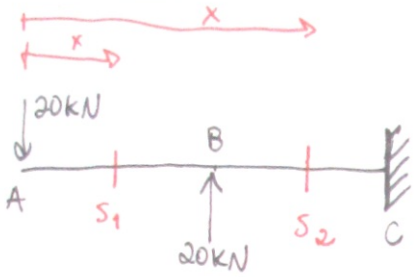
EXERCÍCIO 03

DETERMINAR AS REAÇÕES DE APOIO E OS DIAGRAMAS DE ESFORÇOS SOLICITANTES DA VIGA.



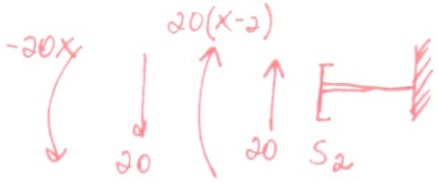
ENTRE A e B

$N = 0$

$V_{(x)} = -20\ KN$

$M(x) = -20 \cdot x$ $\begin{cases} M(0) = 0 \\ M(2) = -40\ KNm \end{cases}$

ENTRE B e C



$N = 0$

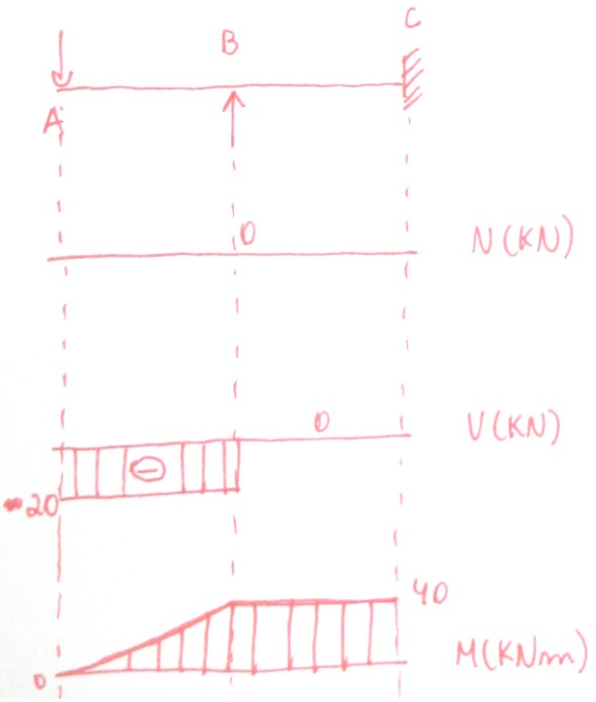
$V_{(x)} = -20 + 20 = 0$

$M(x) = -20x + 20(x-2) =$

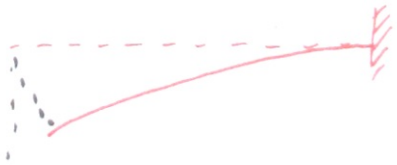
$= -20x + 20x - 40$

$M(x) = -40\ KNm$

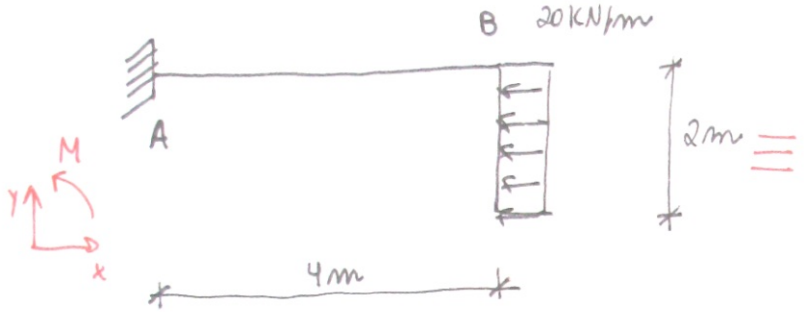
DIAGRAMAS:

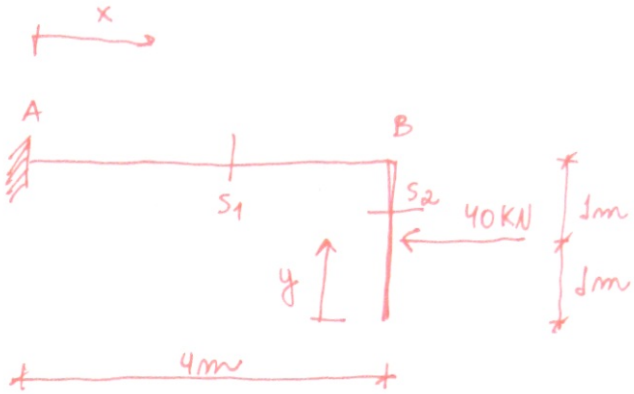


deformada:

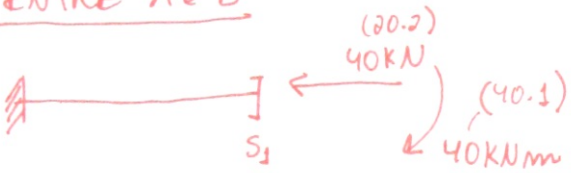


DETERMINAR OS DIAGRAMAS DE ESFORÇOS SOLICITANTES E A DEFORMADA DA VIGA.





ENTRE A e B

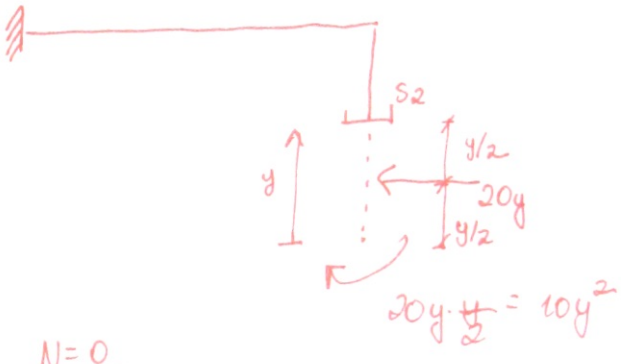


$N = -40KN$

$V_{(x)} = 0$

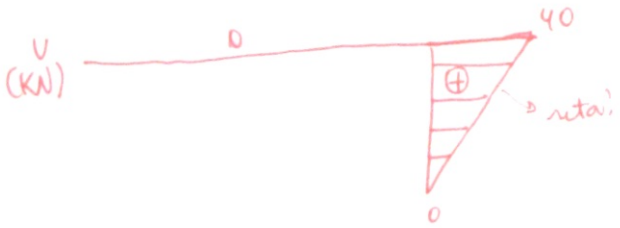
$M_{(x)} = -40KNm$

ENTRE B e C



$N = 0$

$V_{(x)} = 20y \begin{cases} V_{(0)} = 0 \\ V_{(2)} = 40KN \end{cases}$

$M_{(y)} = -10y^2 \begin{cases} M_{(0)} = 0 \\ M_{(2)} = -40KNm \end{cases}$

DIAGRAMAS