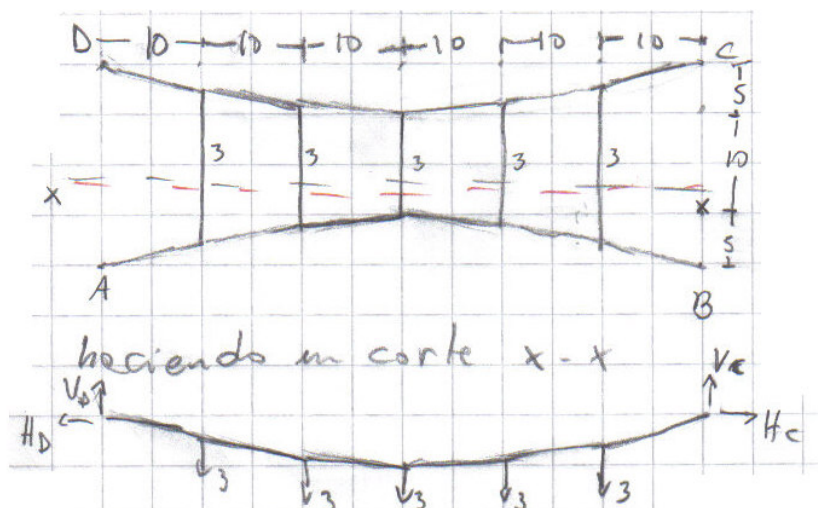


PAUTA TAREA 3 P2



haciendo un corte x-x

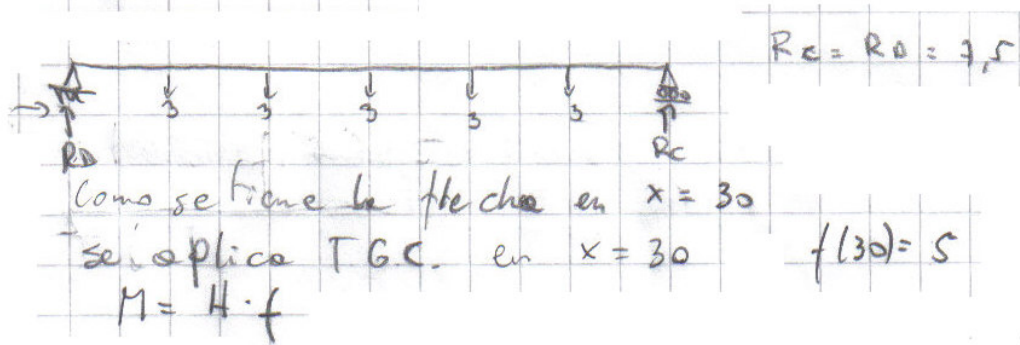
$$\sum F_x = 0 \quad H_C = H_D$$

$$\sum F_y = 0 \quad V_D + V_C = 15$$

por simetría $V_D = V_C = 7,5$

1,5

Viga Equivalente



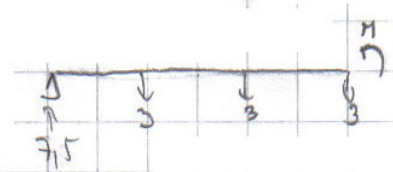
$$R_C = R_A = 7,5$$

Como se tiene la flecha en $x = 30$

se aplica T.G.C. en $x = 30$

$$f(30) = 5$$

$$M = H \cdot f$$



$$M(30) = 7,5 \cdot 30 - 3(20 + 10) = 135$$

1,5

$$H_D = H_C = H = \frac{135}{5} = 27$$

1,0

$$T_C = \sqrt{H^2 + V_C^2} = 28,0223$$

1,0

Como el problema es simétrico se tiene que

1,0

$$T_C = T_D = 28,0223 \text{ k/b}$$