PLATAFORMA

FERNANDA STEPHANIA RAMIREZ GUILLÉN

ARQUITECTURA

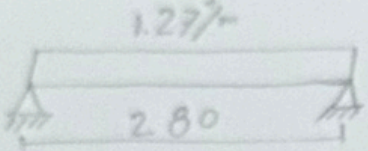
ANALISIS DE ESTRUCTURAS

PEDRO ALBERTO LOPEZ GARCÍA

Cuatrimestre 5°

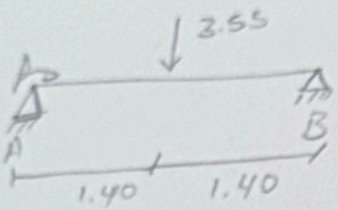
$\Sigma F = 0$

$\Sigma M = 0$



$R = w(L) = 1.27(2.80) = 3.55$

$UP = L/2 = 2.80/2 = 1.40$



$\Sigma M = 0$

$3.55(1.40) + RB(2.80) = 0$

$-4.97 + RB(2.80) = 0$

$RB = \frac{4.97}{2.80} = 1.77 \text{ ton}$

$\Sigma F = RA - 3.55 + 1.77$

$\Sigma = RA = 1.78 \text{ tn} = 0 \quad = \quad RA = 1.78 \text{ ton.}$

$M_o = \frac{WL^2}{8}$

$M_u = o$ la suma del momento más su factor de seguridad.

$F_s = \text{sismos} = 1.3 \times 10^5$

$F'c = 186 \text{ kg/cm}^2$

$Mu = 1.24(130000) = 161200$

$U.FR = 0.90$

$M.FR = 0.80$

$\frac{(q+1) \cdot F''c}{Fy}$

$\frac{Mu}{b \cdot d^2 \cdot Fc} \times 2 + 1 \longrightarrow q = \sqrt{\frac{Mu}{Fr \cdot b \cdot d^2 \cdot F''c}} \times 2 + 1$

$\frac{161,200}{0(0.15)(0.16)^2(136 \text{ kg/cm}^2)} \times 2 + 1$

$[.15)(0.0256)(136) = 0.470016$

$\frac{00}{016} \times 2 + 1$

$0479 = 585.633 \times 2 + 1 = 1174.266$