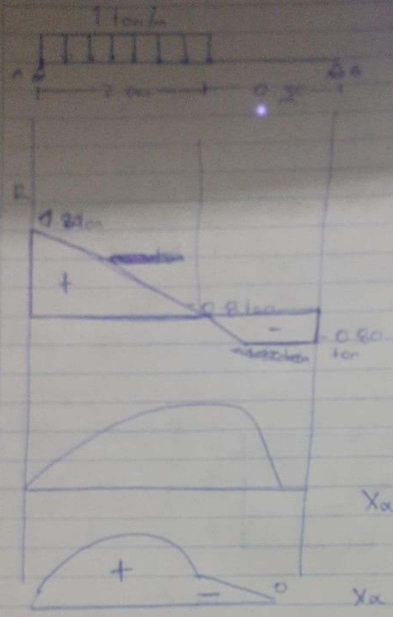
- NOMBRE DEL ALUMNO: OLIVER FERNANDO RODAS HERNANDEZ.
- NOMBRE DEL PROFESOR: ARQ. PEDRO ALBERTO GARCIA LOPEZ
- NOMBRE DEL TRABAJO: GRAFICAS DE RESISTENCIA.
- NOMBRE DE LA MATERIA:RESISTENCIA DE MATERIALES DE CONSTRUCCION.
- GRADO: 4 CUATRIMESTRE 3 PARCIAL
- GRUPO: ARQUITECTURA



$R_A = \frac{q\,a(l+b)}{2l}$

$R_B = \frac{q a^2}{2l}$

$R_A = 1\,ton\,(2.0_m)(2.50 + 0$

$R_A = \frac{6}{5} = \underline{1.2\,ton}$

$R_B = \frac{1\,(2.0_m)^2}{2(2.5)} = \underline{0.8}$

$X_a = \frac{q(l+b)}{2l}$

$X_a = \frac{2\,ton\,(2.50 + 0.50m)}{2(2.50m)}$

$X_a = 6/5 = \boxed{1.2\,ton}$

$M_1 = \frac{0 + (1.20 \times 1.20)}{2} = 0.72\,t.m$

$M_{max} = \frac{q a^2 (l+b)^2}{8l^2}$

$M_3 = 0.73 + \frac{(0.80 \times -.8)}{2} = 0.4$

$M\,M_{ax}$

$M_4 = -0.4\,t.m + (.70_m \times -.8\,ton) = \underline{0\,t.m}$

*Las torres de satelite

*Hacer ... para UDS

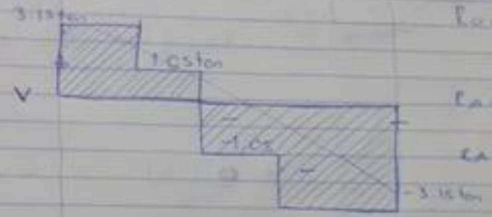
A) Diseño

$M = \frac{FL}{2}$

$R_A = R_B = \frac{\Sigma F}{2}$

$R_A = R_B = \frac{3(2.1\ ton)}{2}$

$R_A = R_B = 3.15\ ton$



$M_1 = 0$

$M_2 = 0 + (3m \times 3.15) = 9.45$

$M_3 = 9.45 + (3m \times 1.05\ ton) = 12.60\ t \cdot m$

$M_4 = 12.60 + (3m \times (-1.05)) = 9.45$

$M_5 = 9.45\ t \cdot m + (3m \times (-3.15)) = 0$

$M_{max} = \frac{FL}{2} \rightarrow \frac{2.1\ ton\ (12m)}{2} =$

$\boxed{12.6\ t.M}$