



**Mi Universidad**

**Ejercicios**

*Alejandra Monserrath Aguilar Gómez*

*Momentos e inercia de una superficie*

*Parcial 4*

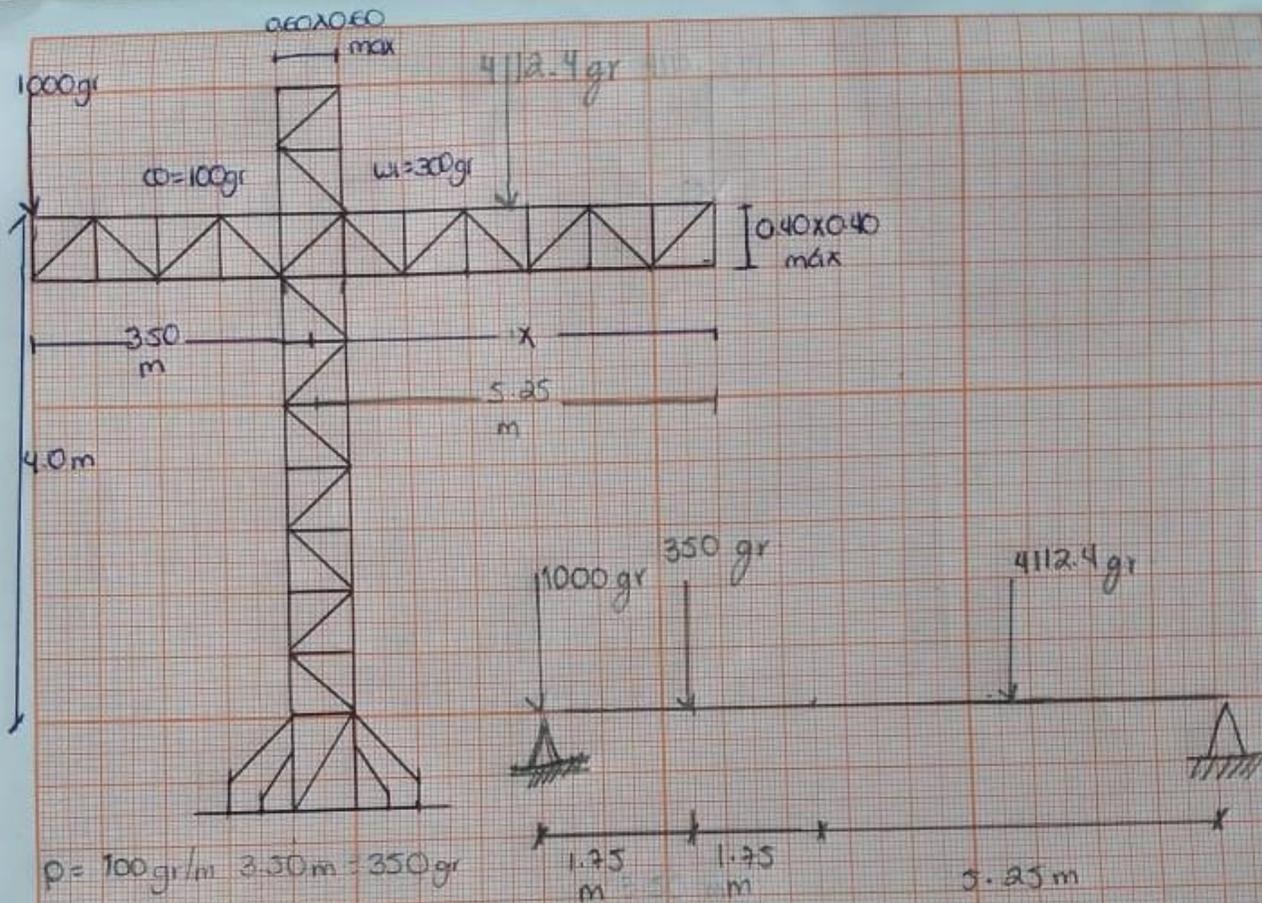
*Estática para la arquitectura*

*Pedro Alberto García López*

*Arquitectura*

*3er Cuatrimestre*

*Comitán de Domínguez, 27/07/23*



$$p = 1000 \text{ gr/m} \cdot 3.50 \text{ m} = 3500 \text{ gr}$$

$$u_p = \frac{3.50 \text{ m}}{2} = 1.75 \text{ mts}$$

$$m_1 = 1000 \text{ gr} (3.50 \text{ mts}) = 3500 \text{ gr}\cdot\text{m}$$

$$m_2 = 350 \text{ gr} (1.75 \text{ mts}) = 612.5 \text{ gr}\cdot\text{mts}$$

$$\sqrt{\frac{2m_1}{w_1}} = \sqrt{\frac{2(4112.5 \text{ gr})}{300}} = 5.236 \text{ mtr} = \underline{5.25 \text{ mts}}$$

$$w_1 = 300 \text{ gr/m} \cdot 5.236 \text{ mts} = 1570.8270 \text{ gr}$$

$$u_{p2} = \frac{5.236}{2} = 2.618 \text{ mts}$$

$$M = 1570.8278 \text{ gr} (2.618 \text{ mts}) = \underline{4112.4 \text{ gr}}$$