



# MOMENTOS DE INERCIA DE UNA SUPERFICIE

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LOPEZ

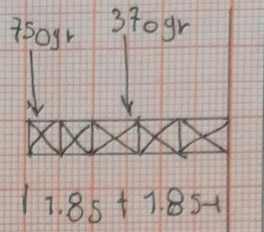
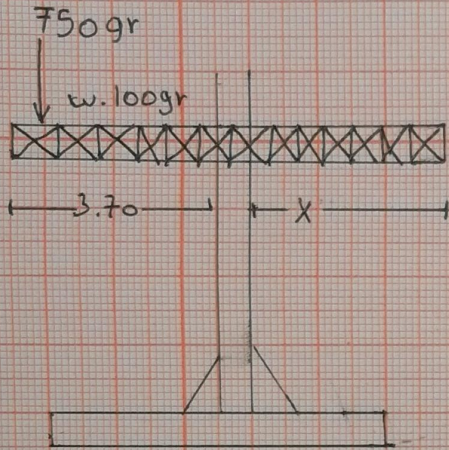
3ER. CUATRIMESTRE

ESTÁTICA PARA LA

ARQUITECTURA

30 DE JULIO DEL 2023





$$w = 370 \text{ m} = 370 \text{ gr}$$

$$u_p = 3.70 / 2 = 1.85 \text{ m}$$

$$m_1 = 7.50 \text{ gr} (3.70) = 2775 \text{ gr} \cdot \text{m}$$

$$m_2 = (1.85 \text{ m}) = \frac{684.5 \text{ gr}}{3459.5 \text{ gr}}$$

$$\sqrt{\frac{2MT}{w_1}} = \sqrt{\frac{2(2775 \cdot 3)}{400}} = \sqrt{\frac{6919}{400}} = \sqrt{17.2975} =$$

$$w_1 = 400 \text{ gr/m} \cdot 4.159 \text{ mts} = 1663.6 \text{ gr}$$

$$4.159 \checkmark$$

$$u_p = 4.159 / 2 = 2.0795 \text{ mts}$$

$$m = 1663.6 \text{ gr} \cdot (2.0795) = 3459.45 \text{ gr}$$