



LA ARQUITECTURA

NOMBRE DEL ALUMNO: Gari Daniel Tinajero Altúzar

NOMBRE DEL TEMA: ejercicios

PARCIAL: 3

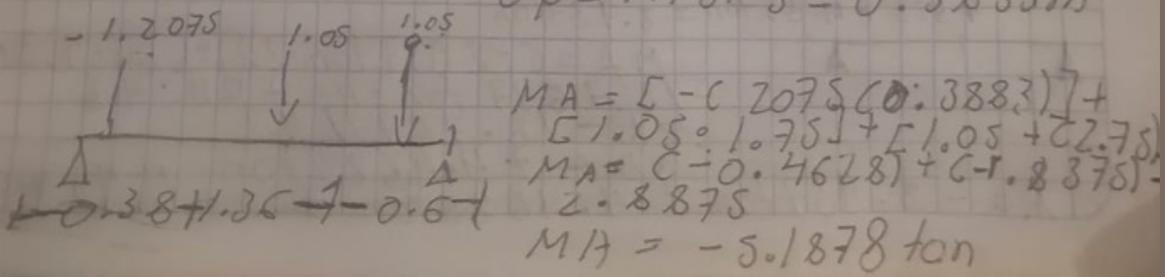
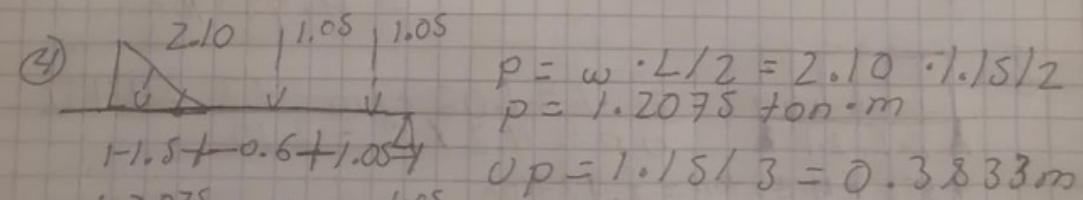
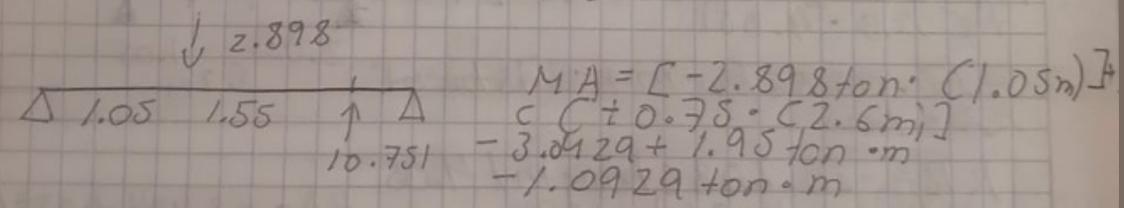
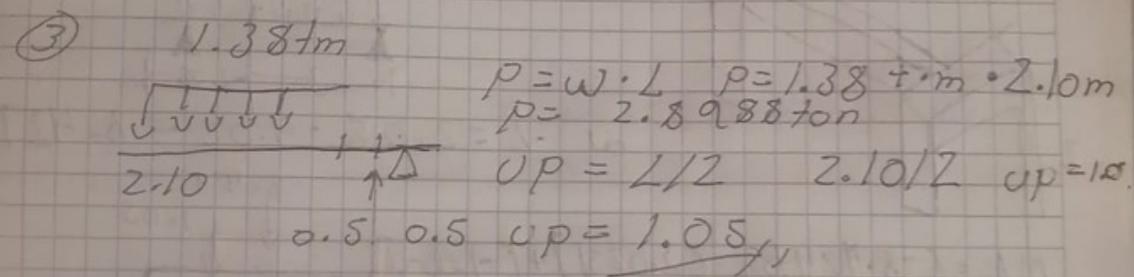
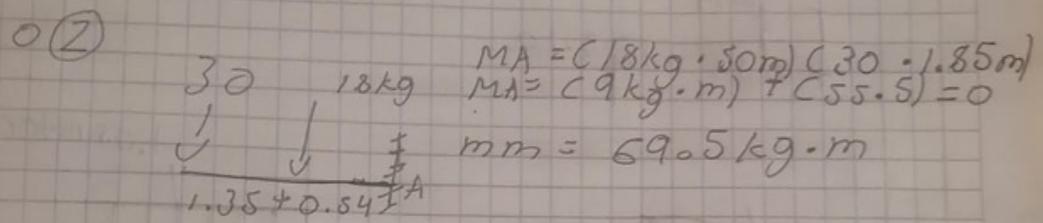
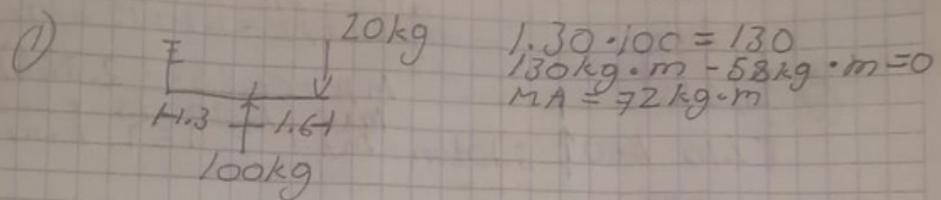
NOMBRE DE LA MATERIA: ESTÁTICA PARA LA ARQUITECTURA

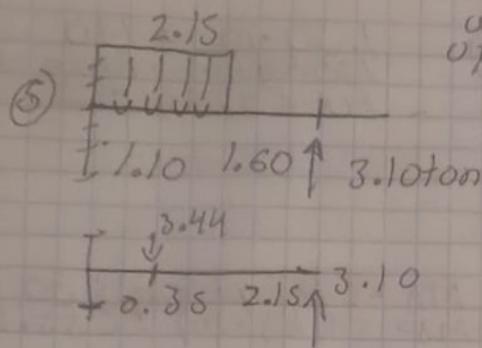
NOMBRE DEL PROFESOR: PEDRO ALBERTO GARCIA LOPEZ

LICENCIATURA: Arquitectura

CUATRIMESTRE: 3

Gari Daniel Tinajero Altuzar $2.9 \cdot 20 = -58$





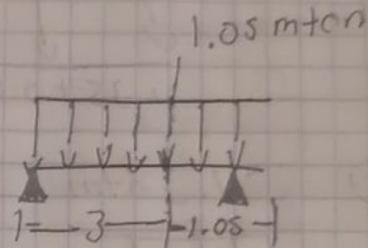
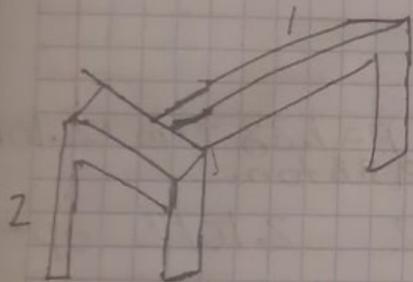
$$\omega \cdot L = 2.15 \cdot 11 = 2.365$$

$$o_p = 2.72 = 1.012 = 0.55$$

$$M_A = (0.55 \cdot -2.365) + (3.1 \cdot 1.7)$$

$$M_A = 1.30075 + 5.27$$

$$M_A = 3.969 \text{ t}\cdot\text{m}$$



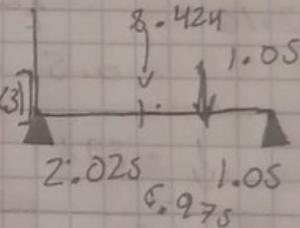
$$\omega \cdot L = 2.08 \cdot 4.05 = 8.429$$

$$M_A = [-8.424 \text{ ton} \cdot (2.025)] + [-1.05 \cdot (3)]$$

$$+ (R_B \cdot 4.05)$$

$$-17.0586 \text{ ton}\cdot\text{m} + -3.15 \text{ ton}\cdot\text{m} +$$

$$R_B \cdot 4.05$$

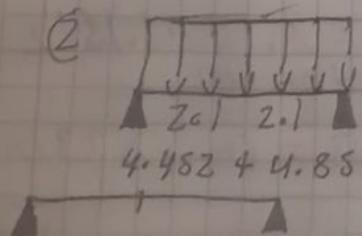


$$R_B = -20.2086 \text{ ton}\cdot\text{m} / 4.05$$

$$R_B = -4.98977 \text{ ton}$$

$$R_A = -8.424 - 1.05 + 4.989$$

$$= 4.485 \text{ ton}$$



$$\omega \cdot L = 1.06 + 1/m \cdot 4.2 = 4.452$$

$$o_p = 4.2 / 2 = 2.10$$

$$4.452 + 4.85 \text{ ton} = 8.937 \text{ ton}$$

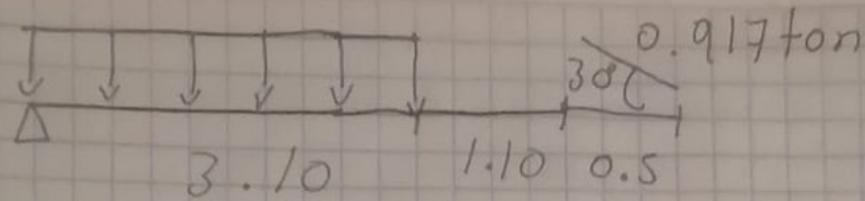
$$M_A = (-8.937 \text{ ton} \cdot 2.1) + [R_B \cdot 4.2 \text{ m}]$$

$$-18.7677 \text{ ton}\cdot\text{m} + R_B \cdot 4.2$$

$$R_B = 18.7677 / 4.2$$

$$R_B = 4.4685 \text{ ton}$$

$$R = -8.937 \text{ ton} + 4.4685 \text{ ton} = 4.4685 \text{ ton}$$

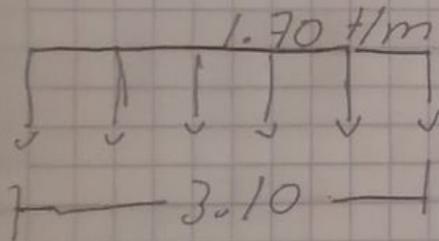


$$\sin \theta = \omega / H \quad X = CA$$

$$X = CA \quad CA = (C \cos 35^\circ - 0.917 \text{ ton}) = 0.7511 \text{ ton}$$

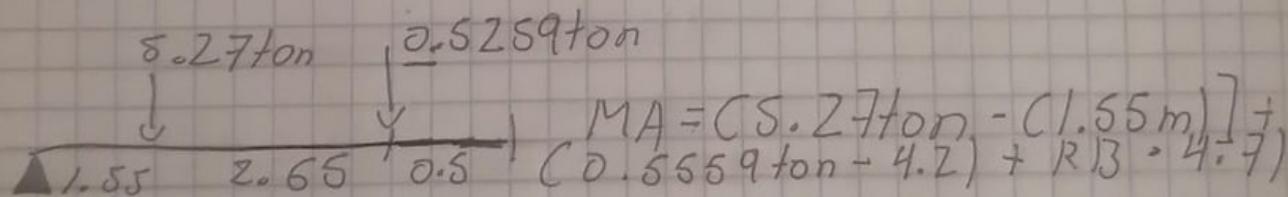
$$C \cos \theta = CA = H$$

$$X = CA = C \cos 35^\circ - (0.917 \text{ ton}) = 0.7511 \text{ ton}$$



$$\omega \cdot L = 1.70 \cdot 3.10 = 5.27 \text{ ton}$$

$$o_p = L/2 = 3.10 / 2 = 1.55 \text{ m}$$



$$8.1685 \text{ ton} \cdot \text{m} + 2.20878 \text{ ton} \cdot \text{m} + R_B \cdot 4.7$$

$$R_B = 10.37728 \text{ ton} \cdot \text{m} / 4.7 \text{ m}$$

$$R_B = 2.2079 \text{ ton}$$