ALUMNO(A): Aguilar Villar Luis Enrique

DOCENTE: Pedro Alberto García López

MATERIA: Estática para la arquitectura

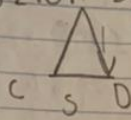**ACTIVIDAD: 1**

CUATRIMESTRE: 3er Cuatrimestre
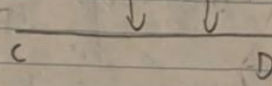
GRUPO: LAR04EMC0121-A

LUGAR Y FECHA: Comitán de Domínguez, chis. 10/07/22

−0.32 ton −1.10 to   −0.96 t   −1.16 ton

C   S   D   C   D

$P = -6.82$ ton (6m)

$P = -6.96$ ton·m

$OP = \dfrac{6}{2} = 3$

$\Sigma M = 6 \quad [-0.96 \text{ ton } (3)] + [-1.10 \text{ ton } (5)]$
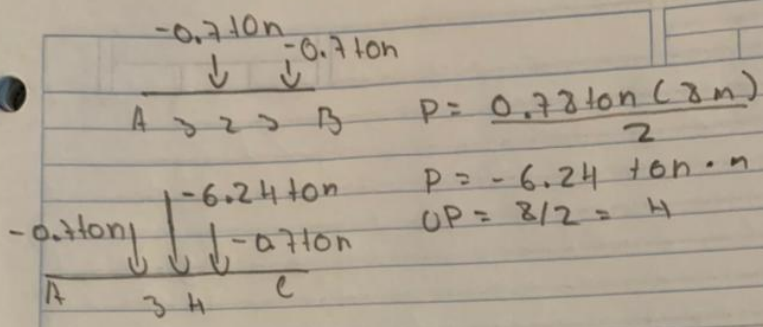
$[D6]$

$-2.88 - 5.5 + 66 = 0$

$-8.38 + D6 = 0$

$D = \dfrac{8.38}{6}$

$D = 1.3966$ ton

$\Sigma y = C - 0.96 \text{ ton} - 1.10 \text{ ton} + 1.3966 = 0$

$C - 0.6634$ ton $= 0$

$C = 0.6634$ to

$$-0.7 \text{ ton} \quad -0.7 \text{ ton}$$
$$\downarrow \qquad \downarrow$$

$$A \, > \, 2 \, > \, B \qquad P = \frac{0.7 \, \text{ton} \, (2\text{m})}{2}$$

$$\Big|^{-6.24 \text{ ton}} \qquad P = -6.24 \text{ ton} \cdot \text{m}$$
$$-0.7\text{ton}\Big| \quad \Big|^{-0.7\text{ton}} \qquad UP = 8/2 = 4$$
$$\downarrow \quad \downarrow \quad \downarrow$$
$$A \qquad 3 \quad 4 \qquad C$$

$$\Sigma MY = -0.7(3) + -6.24(4) + -0.7 + (C$$
$$+ (8) = 0$$

$$-2.1 + -24.96 + -3.5 + C8 = 0$$
$$-30.56 + C8 = 0$$
$$C = \frac{30.56}{2} \qquad C = 3.82 \text{ ton}$$

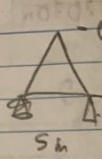$$CMA = A -0.7 \cdot 6.24 - 0.7 + 3.82 \text{ ton} \cdot \text{ton}$$
$$A = -3.82 \text{ ton}$$

$$A = 6.48 + 3.82 + 0 = 4.3 \text{ ton}$$
$$B = 6.48 \text{ ton}$$
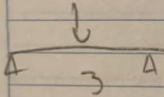$$C = 0.6634 + 3.82 \text{ ton} = 4.48 \text{ ton}$$
$$D = 1.3966 \text{ ton}$$

-0.32 ton/m

$$P = \dfrac{0.32 \text{ ton/m } (6\,m)}{2}$$

5 m

$P = 0.96 \text{ to}$

$OP = \dfrac{L}{2} = \dfrac{6}{2} = 3$

3

$$\Sigma m_A \quad -0.96 \text{ ton } (3) + 13(6) = 0$$

$$-2.88 \text{ ton·m} + B6 = 0$$

$$B = 0.48 \text{ ton}$$

$$\Sigma m = A + (-0.96 \text{ ton } + 0.48 \text{ ton}) = 0$$

$$A - 0.48$$

$$A = 0.48 \text{ ton}$$