



**ALUMNO(A): FANI DE LOS ÁNGELES JIMÉNEZ HERNÁNDEZ**

**DOCENTE: PEDRO ALBERTO GARCIA LOPEZ**

**MATERIA: ESTÁTICA PARA LA ARQUITECTURA**

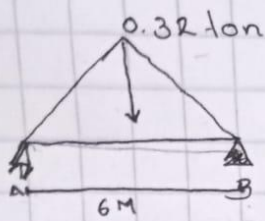
**ACTIVIDAD: EQUILIBRIO PARA UN CUERPO RÍGIDO**

**PASIÓN POR EDUCAR**

**CUATRIMESTRE: 3**

**GRUPO: LAR04EMC0121-A**

**LUGAR Y FECHA: COMITÁN DE DOMÍNGUEZ CHIAPAS, A; 10 DE JULIO DE 2022**



$$P = \frac{0.32 + (6)}{2} = -0.96 \text{ t/m}$$

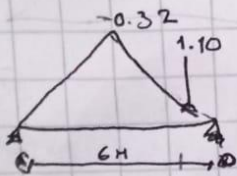
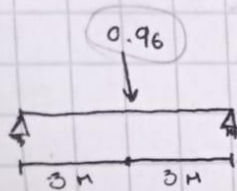
$$UP = \frac{6}{2} = 3$$

$$\sum M_A = -0.96(3) + B(6) = 0$$

$$-2.88 + B(6) = 0$$

$$B = \frac{2.88}{6} = 0.48 \text{ ton}$$

$$N_A = -0.96 + 0.48 = 0.58 \text{ ton}$$



$$P = \frac{-0.32 + (6)}{2} = -0.96$$

$$UP = \frac{6}{2} = 3 \text{ m}$$

$$-0.96(3) + 1.10(5) + B(6) = 0$$

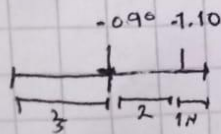
$$-2.88 - 5.5 + B(6) = 0$$

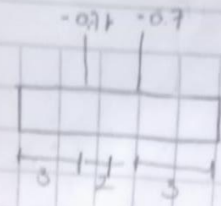
$$-8.38 + B(6) = 0$$

$$B = \frac{8.38}{6} = 1.3966 \text{ ton}$$

$$N_A = -0.96 - 1.10 + 1.3966 = -0.6634$$

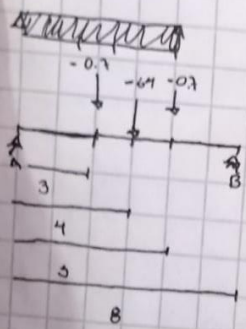
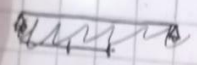
$$A = 0.6634 \quad N = 0.6634$$





$$P = 0.78(8) = -6.24$$

$$OP = 8/2 = 4$$



$$\sum M_A = 0$$

$$-0.7(3) + (-6.24)(4) + (-0.7)(5) + B(8) = 0$$

$$-2.1 - 24.96 - 3.5 + B(8) = 0$$

$$-30.56 + B(8) = 0$$

$$B = \frac{30.56}{8} = 3.82 \uparrow$$

$$\sum F_y = 0$$

$$A - 0.7 - 6.24 - 0.7 + 3.82 = 0$$

$$A = 3.82$$

$$A = 3.82 \uparrow$$

Reacciones A

$$(0.78 + 3.82) = 4.3 \uparrow$$

$$B = 3.82 + 0.6634 = 4.4834 \uparrow$$

$$B = 4.48 \uparrow$$

$$D = 7.3966 \uparrow$$

