



ALUMNO: FANI DE LOS ÁNGELES JIMÉNEZ HERNÁNDEZ

DOCENTE: PEDRO ALBERTO GARCIA LOPEZ

MATERIA: RESISTENCIA DE MATERIALES

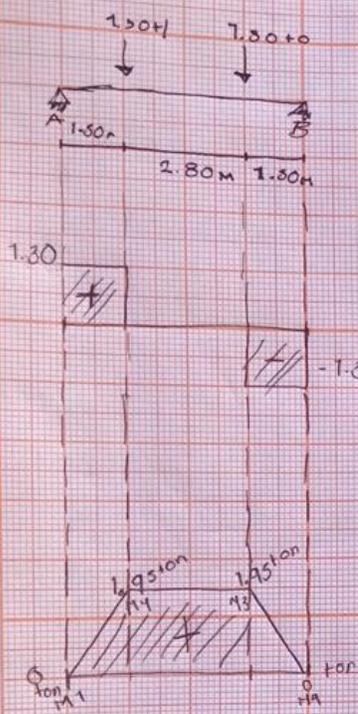
ACTIVIDAD: MOMENTOS

PASIÓN POR EDUCAR

CUATRIMESTRE: 4TO

GRUPO: LAR04EMC121-A

**LUGAR Y FECHA: COMITÁN DE DOMÍNGUEZ CHIAPAS, A; 13 DE
NOVIEMBRE DE 2022.**



$$R_A = R_B = P$$

$$R_A = R_B = 1.30$$

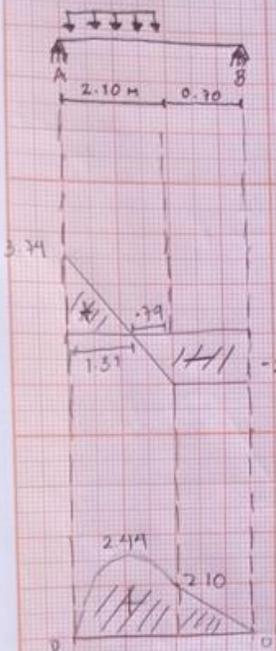
$$M = F \cdot d$$

$$M_1 = 0$$

$$M_2 = 0 + (1.5 \times 1.30) = 1.95 \text{ ton}$$

$$M_3 = 1.95 + (2.8 \times 0.1) = 1.95 \text{ ton}$$

$$M_4 = 1.95 - (1.5 \times 1.30) = 0$$



$$R_A = \frac{q_0 (L+B)}{2 (L)}$$

$$R_A = \frac{2.85 \cdot 2.10 (2.80 + 0.70)}{2 (2.80)} = 3.74 \text{ kN}$$

$$R_B = \frac{q_0^2}{2 (L)}$$

$$R_B = \frac{2.85 (2.10^2)}{2 (2.80)} = 2.24 \text{ kN}$$

$$x \cdot x = \frac{q_0 (L+B)}{2}$$

$$x = \frac{2.10 (2.80 + 0.70)}{2} = 1.37 \text{ m}$$

$$M_1 = 0$$

$$M_2 = \frac{0 + (1.37 \times 3.74)}{2} = 2.44 \text{ kNm}$$

$$M_3 = \frac{2.44 (0.39 \times 2.24)}{2} = 2.10 \text{ kNm}$$

$$M_4 = \frac{2.10 (0.10 \times 2.24)}{2} = 0.26 \text{ kNm}$$