



ALUMNO(A): ZULIBETH VAZQUEZ NORIEGA

DOCENTE: PEDRO ALBERTO GARCÍA

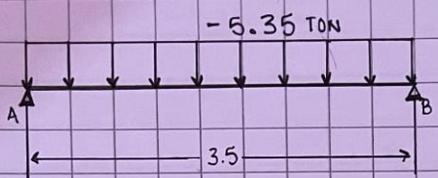
MATERIA: RESISTENCIA DE MATERIALES DE CONSTRUCCIÓN

ACTIVIDAD: MOMENTOS

CUATRIMESTRE: CUARTO

PASIÓN POR EDUCAR

GRUPO: A



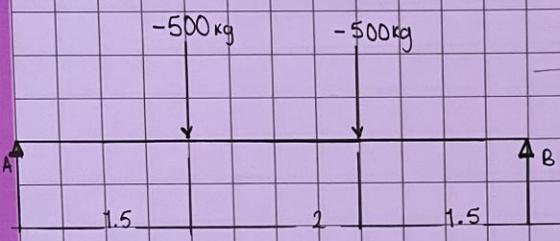
$$M = \frac{1}{8} q l^2 = M = \frac{1}{8} \cdot 5.35 \text{ t/m} \cdot (3.5 \text{ m})^2$$

$$M = -8.1921875 \text{ t/m}$$

$$R_A = R_B = \frac{q l}{2}$$

$$R_A = R_B = \frac{5.35 \text{ t/m} \cdot (3.5 \text{ m})}{2}$$

$$R_A = R_B = -9.3625 \text{ t}$$

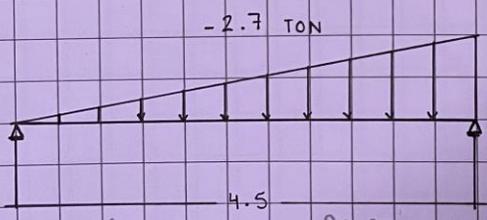


$$M = F \cdot a = -500 \text{ kg} \cdot (1.5 \text{ m})$$

$$= -750 \text{ kg/m} = -750 \text{ kg/m}$$

$$R_A = R_B = F$$

$$F = -500 \text{ kg}$$



$$M = \frac{q l^2}{9\sqrt{3}} \quad M = \frac{-2.7 \text{ ton} \cdot (4.5)^2}{9(\sqrt{3})}$$

$$M = -54.675$$

$$\frac{9(1.732050808)}$$

$$M = -54.675$$

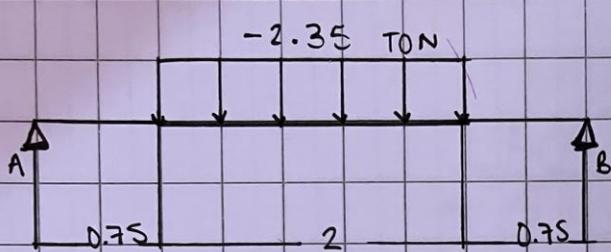
$$\frac{15.58845727}$$

$$M = 3.50740288490$$

$$R_A = \frac{q l}{6} \quad R_B = \frac{q l}{3}$$

$$R_A = \frac{-2.7 \text{ ton} \cdot (4.5)}{6} \quad R_B = \frac{-2.7 \text{ ton} \cdot (4.5)}{3}$$

$$R = -2.025 \quad R_B = -4.05$$



$$Q_A = Q_B = Q_C$$

$$Q_A = Q_B = -2.35(1)$$

$$= -2.35$$

$$M = \frac{q_c(L-c)}{2}$$

$$M = \frac{-2.35(1)(3.5-1)}{2}$$

$$M = \frac{-2.35(2.5)}{2}$$

$$M = \frac{-5.875}{2}$$

$$M = -2.9375$$