



Estatica

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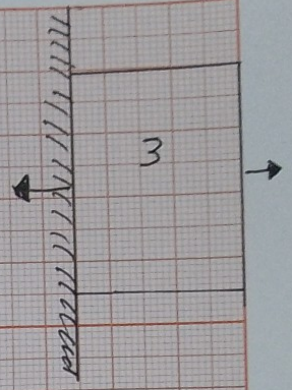
Nombre del tema teoría de la arquitectura

Parcial I

Nombre de la Materia estática

Nombre del profesor Pedro alberto

Nombre de la Licenciatura arquitectura



895 N (mg)

encontras la masa y comprobar equilibrio

$$895 \text{ N} / 9.81 \text{ m/s}^2 = 91.23 \text{ kg}$$

$$\sum F_y = 0$$

$$895 \text{ N} = 895 \text{ N} = 0$$

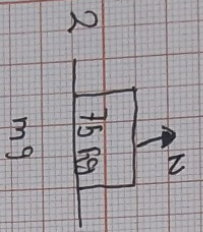
Comprobar equilibrio

$$N = 735 \quad \sum F_x = 0$$

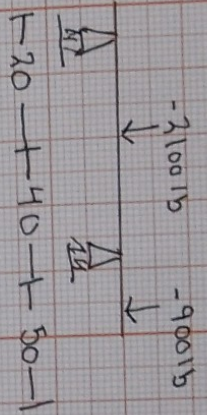
$$mg = 75$$

$$75 \times 9.81 = 735$$

$$735 - 735 = 0$$



UN tractor de 2100 libras se utiliza para levantar 900 libras de grava. Se determinan los efectos de reacción de cada una de las ruedas.



$$R_B = [-C(2100 \text{ lb}) 20] + [-C(900 \text{ lb}) 110] + [R_A(60)] = 0$$

$$-42,000 \text{ lb} - 99,000 + R_B(60) = 0$$

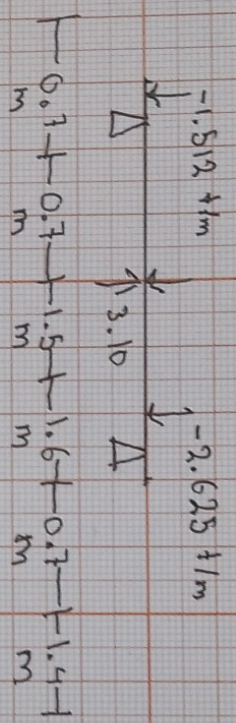
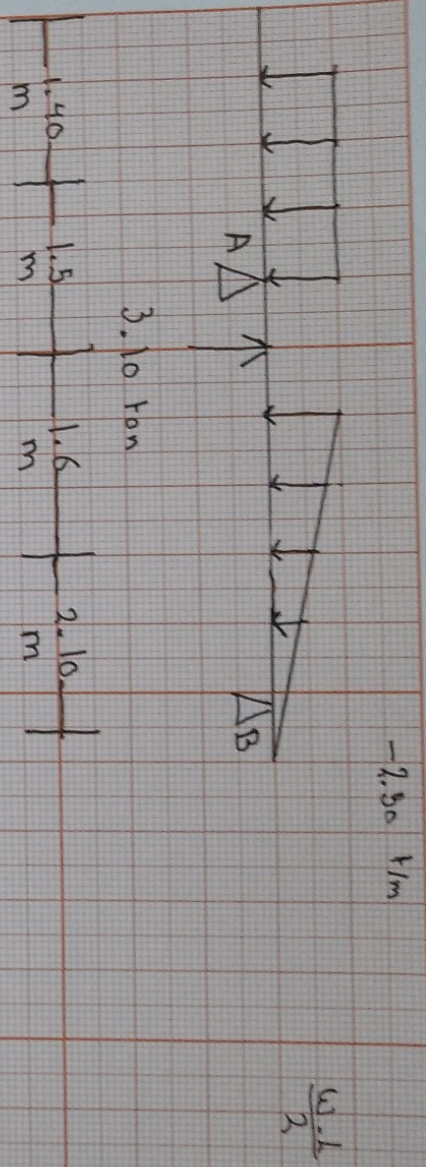
$$-141,000 + R_B(60) = 0$$

$$R_B = \frac{141,000}{60} = 2350$$

$$\sum F_y = R_A - 2100 - 900 + 2350 = 0$$

$$-650 - 650$$

$$650 - 2100 - 900 + 2350 = 0$$



$$\sum m = 0$$

$$[-1.512 + 1m] 0.7 + [(3.10) 1.5] + [(R_B) 5.2] + (-2.625 + 1/m) 0.7$$

$$-2.0647 + 4.65 + (R_B) 5.2 - 1.8375$$

$$2.7478 + 1/m (R_B) 5.2$$

$$R_B = \frac{-1.7478}{5.2}$$

$$R_B = 0.336$$

$$\sum F_y$$

$$R_A = -1.512 + 3.10 - 0.336 - 2.625$$

$$R_A = -4.473 + 3.1 = 0$$

$$R_A = -1.373 = 0$$

$$R_A = +1.373$$

$$\sum y = 0$$

$$-1.512 + 3.10 - 2.625 + 1.373 = 0$$