



Mi Universidad

Estática.

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Nombre del tema: Estática.

Parcial: Unida 4

Nombre de la Materia: estática para la arquitectura

Nombre del profesor: ARQ. Pedro Alberto García López.

Nombre de la Licenciatura: Arquitectura.

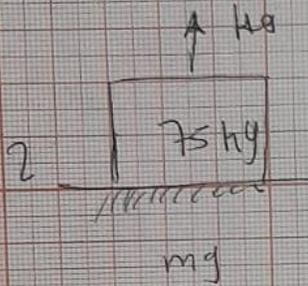
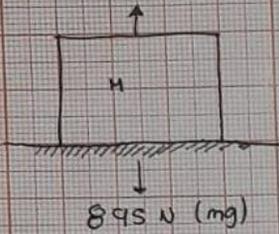
Cuatrimestre: Numero 2

Plataforma.

Encontrat 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

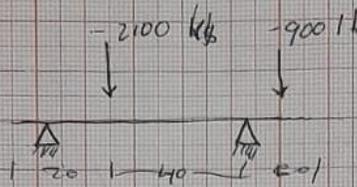
$$N = 735 \quad \sum F_y = 0$$

$$mg = 75$$

$$75 \times 9.81 = 735$$

$$735 - 735 = 0$$

Un tractor de 2100 Libras se utiliza para levantar 900 libras de grava para determinar la reaccion de cada una de sus ejes en llantas. plataforma.



$$R_B = [(-2100 \text{ lb}) 20] + [(-900 \text{ lb}) 40] + [R_B (60)] = 0$$

$$R_B = -42,000 \text{ lb} - 360,000 \text{ lb} + R_B = 0$$

$$R_B = -402,000 \text{ lb} + R_B \cdot 60 = 0$$

$$R_B = \frac{402,000 \text{ lb}}{60} = 6700 \text{ lb}$$

$$\sum F_y = R_A = -2100 - 900 + 6700 = 0$$

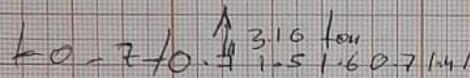
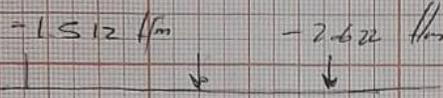
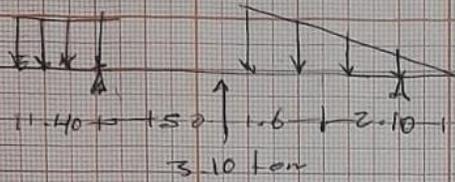
$$-650 - 650 = 0$$

Comprobación

$$650 - 2100 - 900 + 6700 = 0$$

plataforma.

- 2,30 /m



$$\sum m = 0$$

$$\begin{aligned} & [(-1.512 \text{ kN})(0.7 \text{ m})] + [(3.10)(1.5 \text{ m})] + [(2.622)(5.2)] + 2.625(1.6) \\ & = -2.064 + 4.65 + (RB)(5.2) - 1.8375 \\ & 2.7478 + 1/m (RB)(5.2) = 1.8375 \end{aligned}$$

$$1 RB = \frac{1.7478}{5.2}$$

$$RB = 0.336$$

$$\sum F_y =$$

$$RA = 1.512 + 3.10 - 0.336 = 6.65$$

$$RA = -4.473 + 3.1 = 0$$

$$RA = 1.373 = 0$$

$$RA = 1.373$$

comprobación

$$\sum F_y = 0$$

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