UDS

Mi Universidad

Iber Emanuel Vázquez Arguello
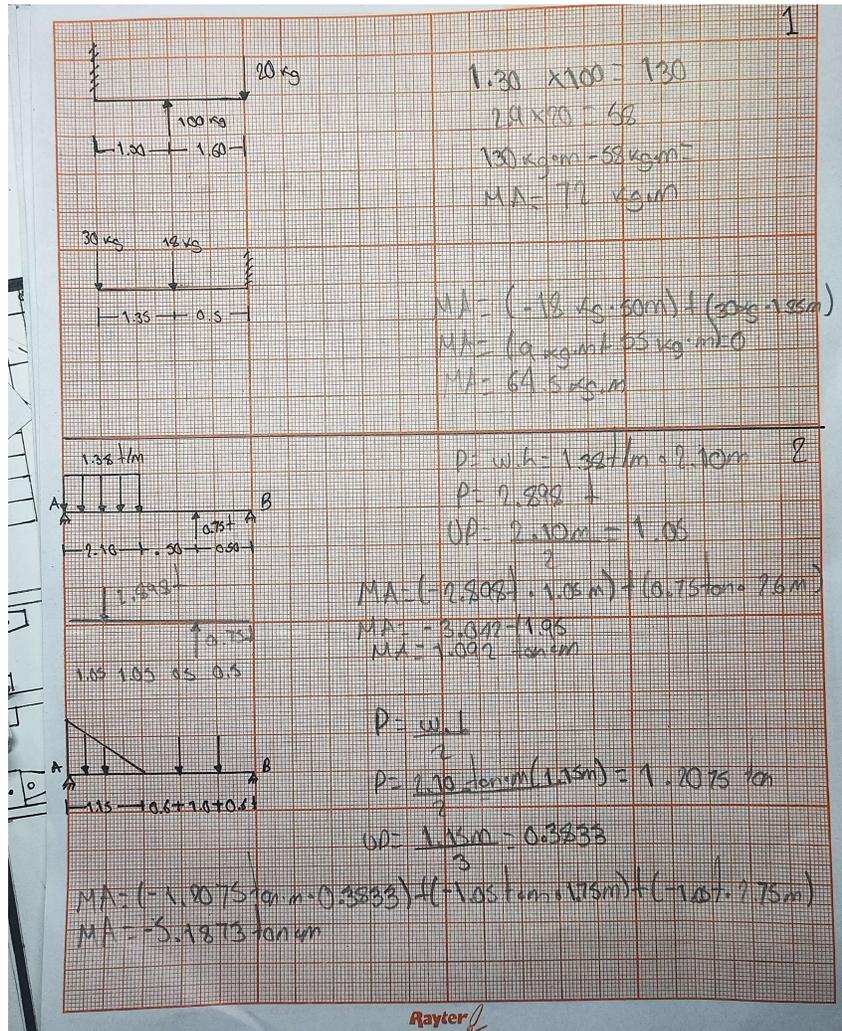
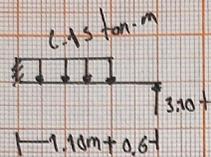*Trabajo Virtual*

Estática Para La Arquitectura

Arq. Pedro Alberto García

Licenciatura En Arquitectura

Tercer Cuatrimestre

$1.30 \times 100 = 130$

$29 \times 20 = 58$

$130\ kg \cdot m - 58\ kg \cdot m$

$MA = 72\ kg \cdot m$

$MA = (-18\ kg \cdot 50m) + (30kg \cdot 1.85m)$

$MA = (9\ kg \cdot m + 55\ kg \cdot m) = 0$

$MA = 64.5\ kg \cdot m$

$P = w \cdot h = 1.32\ t/m \cdot 2.10m$

$P = 2.808\ t$

$UP = \dfrac{2.10m}{2} = 1.05$

$MA = (2.808\ t \cdot 1.05m) + (0.75ton \cdot 7.6m)$

$MA = 3.092 - 1.95$

$MA = 1.092\ ton \cdot m$

$P = \dfrac{w \cdot L}{2}$

$P = \dfrac{2.10\ ton \cdot m (1.15m)}{2} = 1.2075\ ton$

$UP = \dfrac{1.15m}{3} = 0.3833$

$MA = (-1.2075\ ton \cdot m \cdot 0.3833) + (-1.05\ ton \cdot 1.75m) + (-1.0 t \cdot 1.75m)$

$MA = -5.1873\ ton \cdot m$

$1.38\ t/m$

A B

$2.10 \quad .50 \quad 0.50$

0.75

$1.2075\ t$

0.75

$1.05 \quad 1.05 \quad 0.5 \quad 0.5$

A B

$1.15 \quad 0.6 + 1.0 + 0.6$

$W \cdot L = 2.15 \ ton \cdot m (1.10m)$

$W \cdot L = 2.365 \ ton$

$UP = 1.10m - 0.55m$

$MA = (-2.365 \cdot 0.55m) + (3.10 \ ton \cdot 1.7m)$

$MA = -1300 \ t \cdot m \ 5.27 \ t \cdot m$
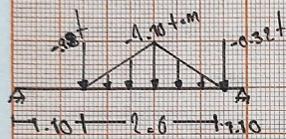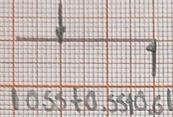
$MA = 3.97 \ t \cdot m$

$P = w \cdot h/2 = 1.10 \cdot 2.60m + 5.33$

$UP = 2.60/2 = 1.30 \ m$

$MA = (-98 \ ton \cdot 1.10m) + (-5.33 \cdot 2.9 \ m) + (-0.32 \cdot 3.7m)$
$+ RB \cdot 4.8m$

$MA = \dfrac{-15.04 \ t \cdot m}{4.3m} = 3.136 \ ton$

$\varepsilon Ty = RA - 98 \ t - 5.33 \ t - 0.32 \ t + 3.136 \ t$

$\varepsilon Ty = 3.494 \ t = 0$
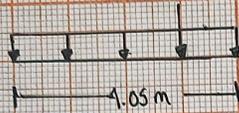
$MA = (-8.4 \text{ ton} + (0.15 \text{ m}) + (-1.05 + 0.3 \text{ m}) + RB \cdot 1.05 \text{m}$

$RB = \dfrac{-20.208 \text{ ton-m}}{1.05 \text{m}} = 4.980 \text{ ton}$

$\varepsilon Ty = -8.014 - 1.05 + 4.950 \text{ ton}$

$RA = 4.485 \text{ ton} = 0$

$MA = (-8.937 \text{ ton} + 0.71 \text{ m}) + RB \cdot 1.80 \text{m}$

$MA = 4.4685 \text{ ton}$

$RA = -8.937 \text{ ton} + 4.4685 \text{ ton} - 4.4685 \text{ ton} = 0$

$$Sen\ \theta = \frac{CO}{h} \quad CO = Sen(h) \qquad 6$$

$$Y = Sen\ 35°(0.917\cdot t)$$
$$= 0.5259\ t$$

$$Cos\ \theta\ \frac{CA}{h} = CA = Cos\ 35°(0.917\cdot t)$$
$$X = 0.7511\ t$$

$$W \cdot L = 1.70 \cdot 3.10 = 5.27\ t$$
$$OD\ \frac{3.10}{2} = 1.55\ m$$

$$MA = (-5.27 t \cdot 1.55 m)(0.5259 \cdot 1.9 m) + RB \cdot 4.7 m$$
$$RB = \frac{10.37748\ t \cdot m}{4.7 m} = 2.2070\ t \cdot m$$
$$RA = -5.27 t - 0.7807\ t\ 2.0707\ t - 3.842 = 0$$