



Nombre del Alumno José Amílcar Trejo hidalgo

Nombre del tema

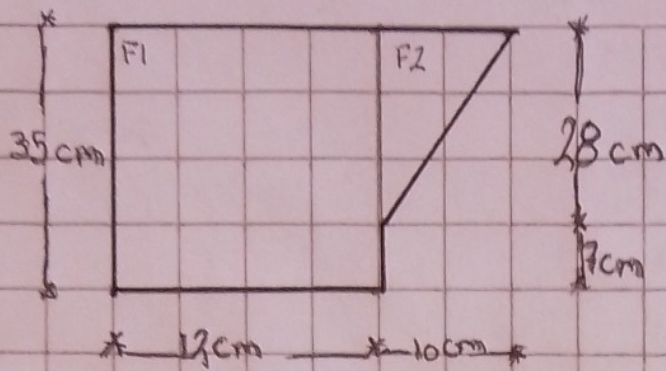
Parcial 2

Nombre de la materia: estática para la arquitectura

Nombre del profesor : Pedro Alberto

Nombre de la Licenciatura arquitectura

Cuatrimestre



$$C_x \cdot \frac{12}{2} = 6 \text{ cm}$$

$$C = 6, 17.5$$

$$\frac{35}{2} = 17.5$$

$$\text{Area: } b \cdot h = 12 \cdot 35 = 420$$

F2

$$\frac{10}{3} = 3.333 + 12 = 15.333$$

$$\frac{28}{3} = 9.333 \quad 9.333 \times 2 = 18.666$$

$$18.666 + 7 = 25.666$$

$$C = 15.333, 25.666$$

$$\text{Area } \frac{b \cdot h}{2} = \frac{10 \cdot 28}{2} = 140$$

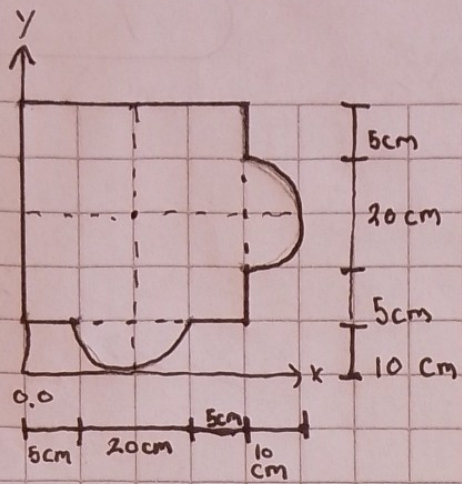
$$\begin{array}{r} \text{GX} \\ 420 \cdot 6 + 140 \cdot 15.333 \\ \hline 420 + 140 \end{array}$$

$$C_{GX} = \frac{4,666 \cdot 62}{560} = 8.333$$

$$\begin{array}{r} \text{C}_{GY} \\ 420 \cdot 17.5 + 140 \cdot 25.666 \\ \hline 420 + 140 \end{array}$$

$$735 + 3593 \cdot 24 = 10943 \cdot 24$$

$$C_{GY} = \frac{10,943 \cdot 24}{560} = 19.541 \text{ cm}$$



① $30\text{cm} \times 30\text{cm} = 900\text{cm}^2$
 $y = 30/2 = 15$
 $x = 30/2 = 15$

2 $\frac{4R}{3\pi} = \frac{40}{9.424} = 4.246$

CX
 $4.24 + 30 = 34.24$
 157.07

$CY = 4.29 - 10 = 5.76$

Centroid General X

$\frac{900(15) + 157.07(34.24) + 157.07(15)}{900\text{cm}^2 + 157.07 + 157.07} = 17.48\text{cm}^2$

cgY

$\frac{900(15) + 157.07(5.76) + 157(25)}{900\text{cm}^2 + 157.07 + 157.07} = 22.5108\text{cm}^2$