



Mi Universidad

Estática.

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Nombre del tema: centro de gravedad.

Parcial: Unida 2

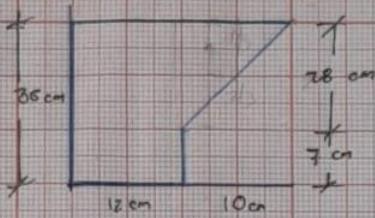
Nombre de la Materia: estática para la arquitectura

Nombre del profesor: ARQ. Pedro Alberto García López.

Nombre de la Licenciatura: Arquitectura.

Cuatrimestre: Numero 2

Plataforma..



$$C_x = \frac{b}{3} = \frac{20}{3} = 3.33 + 12 = 15.33 \text{ cm}$$

$$C_y = \frac{h}{3} = \frac{28}{3} = 9.33 + 17 = 25.667 \text{ cm}$$

$$A = \frac{28 \times 20}{2} \text{ cm}^2 = 140 \text{ cm}^2$$

$$C_x = \frac{b}{2} = \frac{12}{2} = 6$$

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

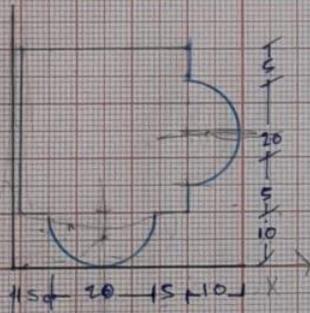
$$A = 420 \text{ cm}^2$$

$$C_{gx} = \frac{(140 \times 15.33) + (420 \times 6)}{(140 + 420)}$$

$$C_{gx} = 8.333 \text{ cm}$$

$$C_{gy} = \frac{(140 \times 25.667) + (420 \times 17.5)}{(140 + 420)}$$

$$C_{gy} = 19.541 \text{ cm}$$



$$C_y = \frac{4R}{3\pi} = \frac{10 \times 4}{3\pi} = 4.244 + 30 = 34.244$$

$$A = \frac{\pi \times r^2}{2} = \frac{157.079}{2} = 78.539$$

$$C_y = \frac{20}{2} = 10 + 15 = 25$$

$$C_y = \frac{4R}{3\pi} = \frac{40}{3\pi} = 4.244 + 10 = 14.244$$

$$C_x = \frac{20}{2} = 10 + 5 = 15$$

$$C_y = \frac{h}{2} = \frac{30}{2} = 15 + 10 = 25 \quad A = 900 \text{ cm}^2$$

$$C_x = \frac{b}{2} = \frac{30}{2} = 15$$

$$C_{gx} = \frac{(157.079 \times 34.244) + (78.539 \times 15) + (900 \times 15)}{157.079 + 78.539 + 900}$$