



Ejercicios

Nombre del Alumno: Frida Lizbeth Reséndiz Salazar

Nombre del tema : Método de las áreas

Parcial : 2

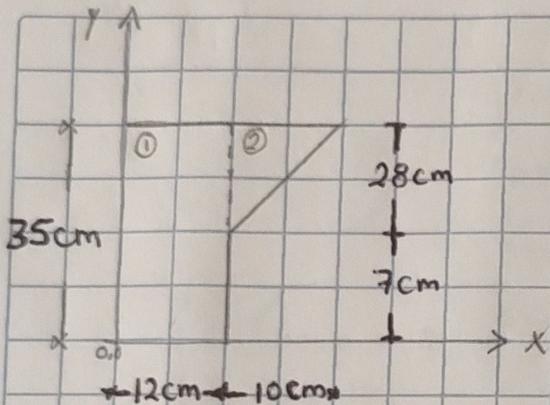
Nombre de la Materia : Estadística para la arquitectura

Nombre del profesor: Pedro Alberto García López

Nombre de la Licenciatura : Arquitectura

Cuatrimestre: 3ro

Resendiz Salazar
Frida Lizbeth



$$Cx_1 = \frac{b}{2} = \frac{12}{2} = 6 \text{ cm}$$

$$Cy_1 = \frac{h}{2} = \frac{35}{2} = 17.5 \text{ cm}$$

$$A_1 = b \times h = 12 \cdot 35 \text{ cm} = 420 \text{ cm}^2$$

$$Cx_2 = \frac{b}{3} = \frac{10}{3} = 3.33 \text{ cm} + 12 = 15.33 \text{ cm}$$

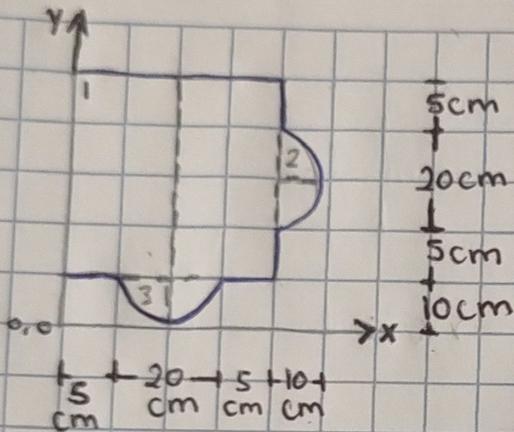
$$Cy_2 = \frac{h}{3} = \frac{28}{3} = 9.33 \text{ cm} + 7 = 18.66 + 7 = 25.66 \text{ cm}$$

$$A_2 = \frac{b \cdot h}{2} = \frac{10 \times 28}{2} = 140 \text{ cm}^2$$

$$Cx = \frac{(420 \text{ cm} \cdot 6 \text{ cm}) + (140 \text{ cm} \cdot 15.33 \text{ cm})}{(420 + 140)} = 8.33 \text{ cm}$$

$$Cy = \frac{(420 \text{ cm} \cdot 17.5 \text{ cm}) + (140 \text{ cm} \cdot 25.66 \text{ cm})}{(420 + 140)} = 19.54 \text{ cm}$$

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$$Cx_1 = b/2 = 30/2 = 15 \text{ cm}$$

$$Cy_1 = h/2 = 30/2 = 15 \text{ cm} + 10 = 25 \text{ cm}$$

$$A_1 = 30 \cdot 30 = 900 \text{ cm}^2$$

$$Cx_2 = \frac{4R}{3\pi} = \frac{4(10)}{3\pi} = 4.2441 + 30 \text{ cm}$$

$$= 34.244$$

$$Cy = h/2 = 20/2 = 10 \text{ cm} + 15 \text{ cm} = 25 \text{ cm}$$

$$A_2 = \frac{\pi \times (10)^2}{2} = 157.08 \text{ cm}^2$$

$$Cx_3 = 20/2 = 10 + 5 = 15 \text{ cm}$$

$$Cy_3 = 10 - 4.244 = 5.756 \text{ cm}^2$$

$$A_3 = 157.08 \text{ cm}^2$$

$$Cx = \frac{(900 \text{ cm} \cdot 15 \text{ cm}) + (157.08 \cdot 25 \text{ cm}) + (157.08 \cdot 15 \text{ cm})}{(900 + 157.08 + 157.08)} = 17.48 \text{ cm}$$

$$Cy = \frac{(900 \text{ cm} \cdot 25 \text{ cm}) + (157.08 \cdot 25 \text{ cm}) + (15.756)}{1214.16} = 22.50 \text{ cm}$$