Nombre de alumno: Anette Odalys Nájera Rueda.

Nombre del profesor: Arq. Pedro García..

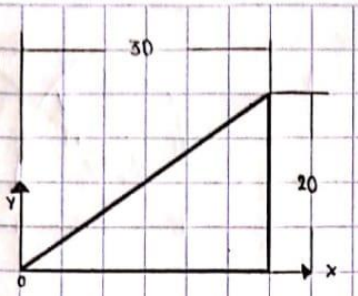
Nombre del trabajo: Actividades

Materia: Estática para la arquitectura

Grado: 3-° Cuatrimestre

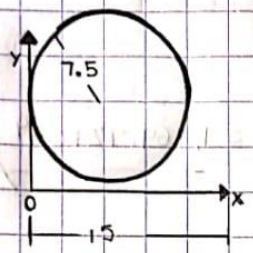
Grupo: "A"

Comitán de Domínguez Chiapas a 31 de julio del 2022.

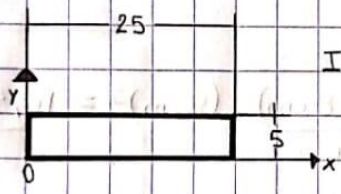


$$\bar{I}x = \frac{30(20\,cm)^3}{36} = 6666.666\ cm^4$$

$$I4 = \frac{(30\,cm)^3\,20\,cm}{36} = 15.000\ cm^4$$

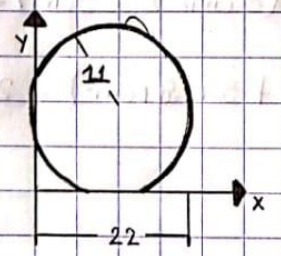


$$\bar{I}x = \bar{I}4 = 3.1416\,(7.5\,cm)^4 = 2,485.054\,cm^4$$

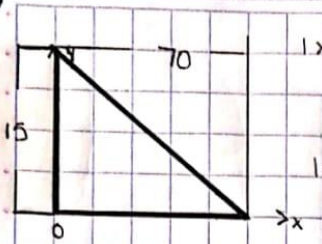


$$Ix = \frac{25\,(5\,cm)^3}{12} = 260.416\ cm^4$$

$$I4 = (25\,cm)^3\,5\,cm^3 = 6,510.416\,cm$$

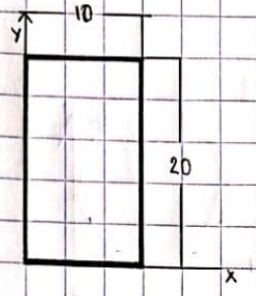


$$\bar{I}x = 0.1098\,(11)^4 = 1,607.5818\ cm^4$$



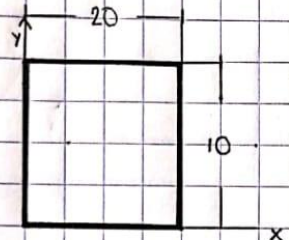
$$I_x = \frac{70\,cm\,(15\,cm)^3}{36} = 6,562.50\ cm^4$$

$$I_y = \frac{(70\,cm)^3\,15\,cm}{36} = 142,916.66\ cm^4$$



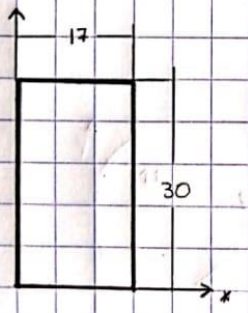
$$I_x = \frac{10\,cm\,(20\,cm)^3}{12} = 6,666.66\ cm^4$$

$$I_y = \frac{(10\,cm)^3\,20\,cm}{12} = 1666.66\ cm^4$$



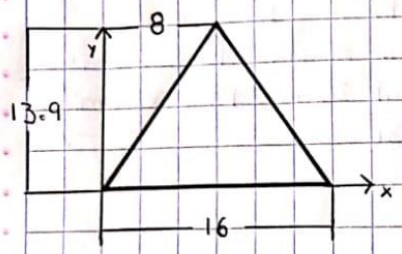
$$I_x = \frac{20\,cm\,(10\,cm)^3}{12} = 1666.666\ cm^4$$

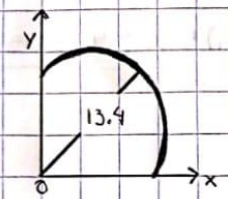
$$I_y = \frac{(20\,cm)^3\,10\,cm}{12} = 6,666.66\ cm^4$$



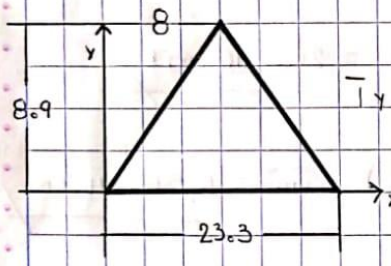
$$I_x = \frac{17\,cm\,(30\,cm)^3}{12} = 38,250\ cm^4$$

$$I_y = \frac{(17\,cm)^3\,30\,cm}{12} = 12,282.50\ cm^4$$





$I_x = 0.05488(13.4)^4 = 1,769.429\ cm^4$



$\bar{I}_y = \frac{23.3(3.8\ cm)^3 \cdot (8\ cm)^3}{36} = \frac{16,425.77}{36}$

$= 456.271\ cm^4$

$I_y = 23.3\ cm\ (3.8\ cm)\left[(8\ cm^2) - (8\ cm \times 23.3\ cm) + (23.3)^2\right]$

$= 29.513\ cm^2\ (64\ cm^2 - 186.4\ cm^2 + 542.89\ cm^2) = 29.513\ cm^3$

$(420.49\ cm^2$

$I_y = 12,409.921\ cm^4$

$I_y = 23,412.367\ cm^4$