



**Nombre de alumno:** Elías Javier  
Bravo Pérez

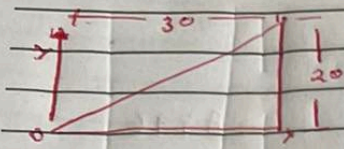
**Nombre del profesor:** Arq. Pedro  
Alberto Ramos García

**Nombre del trabajo:** Actividades

**Materia:** Estática para la  
Arquitectura.

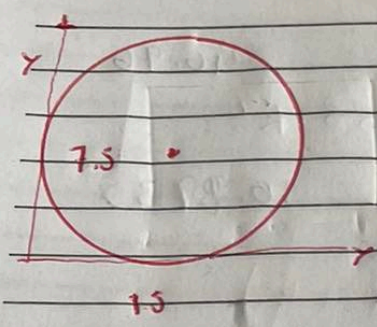
**Grado:** 3er Cuatrimestre.

**Carrera:** Arquitectura.

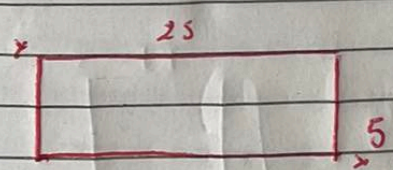


$$I_x = \frac{30(20)^3}{36} = 6666.6666 \text{ cm}^4$$

$$I_y = \frac{(30)^3 20}{36} = 15,000 \text{ cm}^4$$

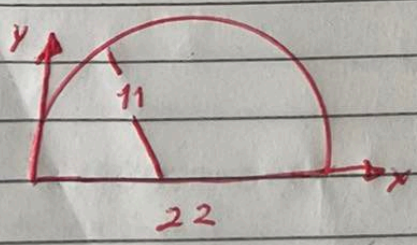


$$I_x = I_y = \frac{3.1416 (7.5)^4}{4} = 2485.057 \text{ cm}^4$$



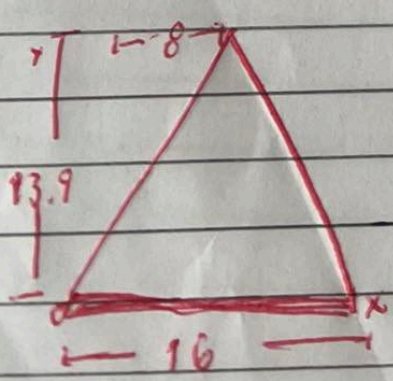
$$I_x = \frac{25(5^3)}{12} = 260.416 \text{ cm}^4$$

$$I_y = \frac{(25)^3 5}{12} = 6,510.416 \text{ cm}^4$$

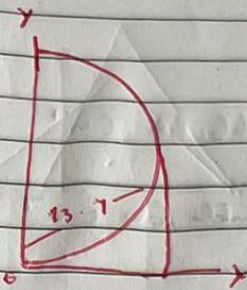


$$I_x = 0.1098 (11)^7 = 1,607.5818 \text{ cm}^4$$

$$I_y = \frac{16 (13.9)^3}{36} = 1,193.608 \text{ cm}^4$$



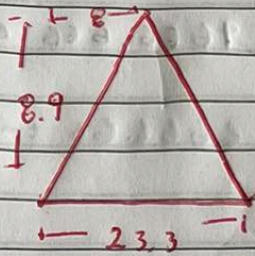
$$I_x = \frac{(16)^3 13.9}{48} = 1,186.133 \text{ cm}^4$$



$$I_y = 0.05488 (13.7)^4 = 1,769.729 \text{ cm}^4$$

$$I_x = \frac{23.3 (3.8)^3}{36} = \frac{16425.77 \text{ cm}^4}{36}$$

$$= 456.271 \text{ cm}^4$$



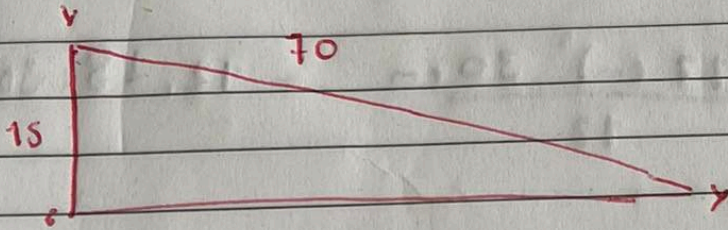
$$I_y = 23.5 \text{ cm} (3.8 \text{ cm}) (8 \text{ cm})^2 - (8 \text{ cm} (23.3 \text{ cm}) (23.3)^2)$$

$$= 29,515 \text{ cm}^4 (64 \text{ cm}^2 - 18.4 \text{ cm}^2 + 842.89 \text{ cm}^2)$$

$$= 29,513 \text{ cm}^4 (420.49 \text{ cm}^2)$$

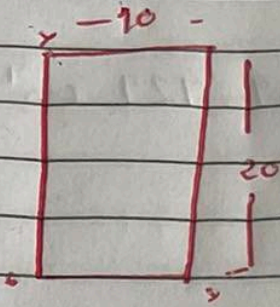
$$I_y = 12,409.921 \text{ cm}^4$$

$$I_x = 22,412.567 \text{ cm}^4$$



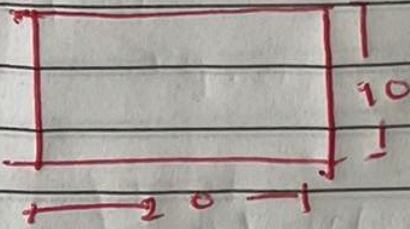
$$I_x = \frac{70 (15)^3}{36} = 6562.50 \text{ cm}^4$$

$$I_x = \frac{(70 \text{ cm}) (15 \text{ cm})^3}{36} = 172,916.66 \text{ cm}^4$$



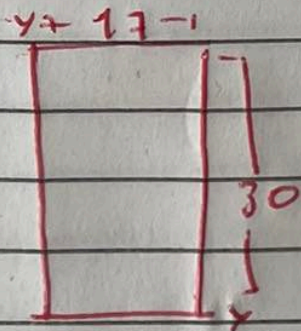
$$I_x = \frac{10 \text{ cm} (20 \text{ cm})^3}{12} = 6.666.66 \text{ cm}^4$$

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



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

$$I_y = \frac{(20 \text{ cm})^3 10 \text{ cm}}{12} = 6666.66 \text{ cm}^4$$



$$I_x = \frac{13 \text{ cm} (30 \text{ cm})^3}{12} = 38.250 \text{ cm}^4$$

$$I_y = \frac{(13 \text{ cm})^3 30 \text{ cm}}{12} = 12.28250 \text{ cm}^4$$