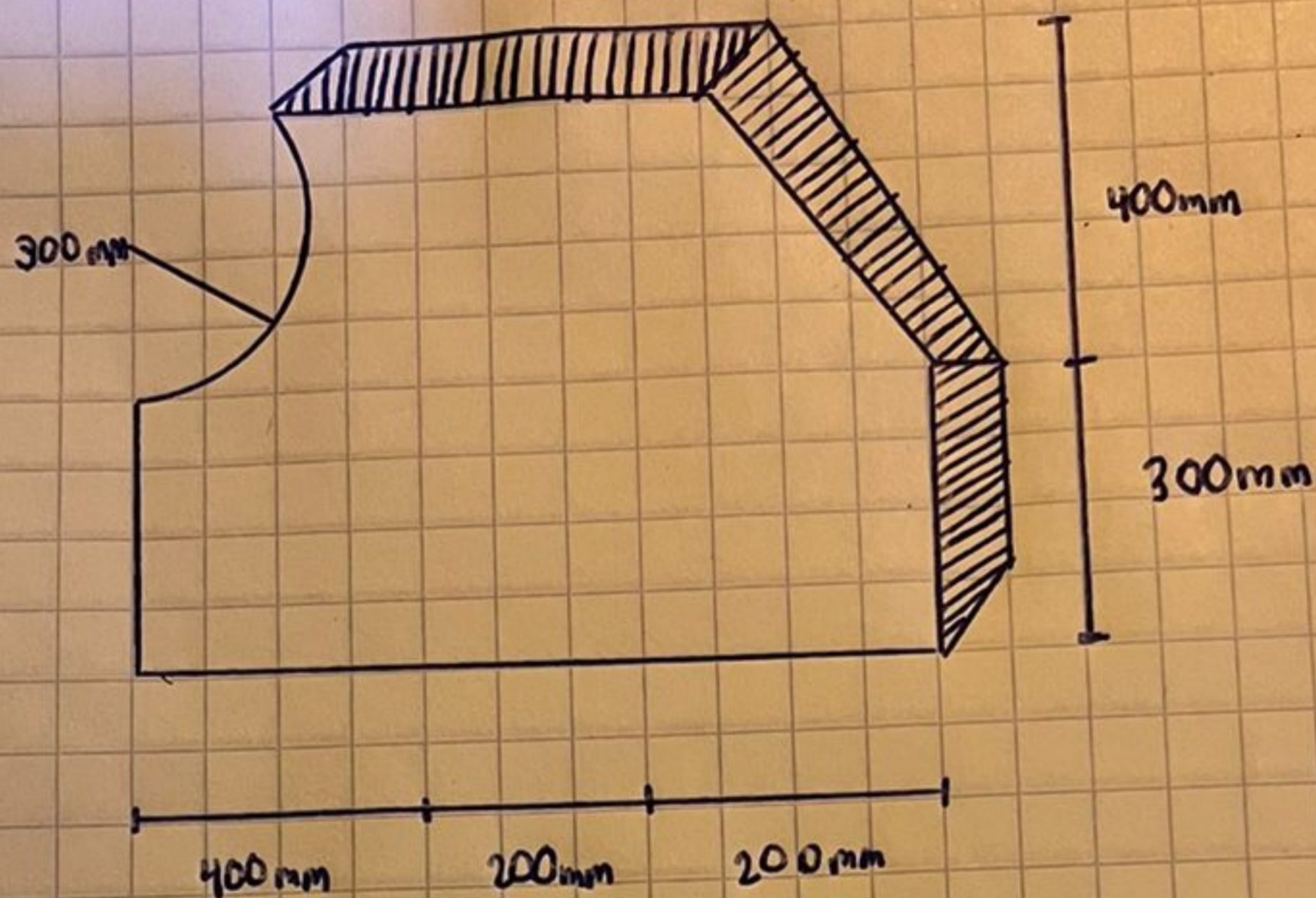


-Estatica-

Carlos Alberto Figueroa



$$C_x = A_1 x_1 + A_2 x_2 + A_3 x_3 \quad \Sigma A$$

$$C_y = A_1 y_1 + A_2 y_2 + A_3 y_3 \quad \Sigma A$$

$$A_1 = 800 \text{ mm} \times 700 \text{ mm} = 560,000 \text{ mm}^2$$

$$x_1 = 800 \text{ mm} / 2 = 400 \text{ mm}$$

$$y_1 = 700 \text{ mm} / 2 = 350 \text{ mm}$$

$$A_2 = \frac{\pi \cdot r^2}{4} \rightarrow 3.1416 (300 \text{ mm})^2 = 141,372 \text{ mm}^2$$

$$x_2 = 4(300 \text{ mm}) = 127.32 - 800 \text{ mm} = 672.68 \quad 3(3.1416)$$

$$y_2 = 300 + 100 = 400 \text{ mm}$$

$$A_3 = 400 \times 200 = 80,000 \text{ mm}^2 \quad A_3 = \frac{200}{3} = 66.666$$

$$y_3 = \frac{400}{3} = 133.333 \quad \Sigma A = 560,000 \text{ mm}^2 - 141,372 \text{ mm}^2 - 40,000 \text{ mm}^2$$

$$C_{gx} = 560,000 \text{ mm}^2 (400) - 141,372 (672.68) + 40,000 (66.666) / 378,628$$

$$C_{gx} = 333,403 \text{ mm}$$

$$C_{gy} = 354,220 \text{ mm}$$

UNIVERSIDAD
DEL SURESTE



*LICENCIATURA EN
ARQUITECTURA*

Estática

Ejercicio

*Arq. PEDRO ALBERTO GARCIA LÓPEZ.
ALUMNOS: CARLOS ALBERTO
FIGUEROA.*

TERCER CUATRIMESTRE U2

GRUPO: A-17

*15 DE JUNIO DEL 2024 – COMITAN DE DOMINGUEZ,
CHIAPAS.*