



Mi Universidad



07/07/2025



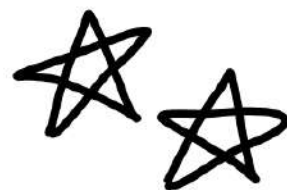
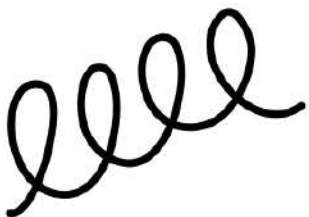
ESTATICA

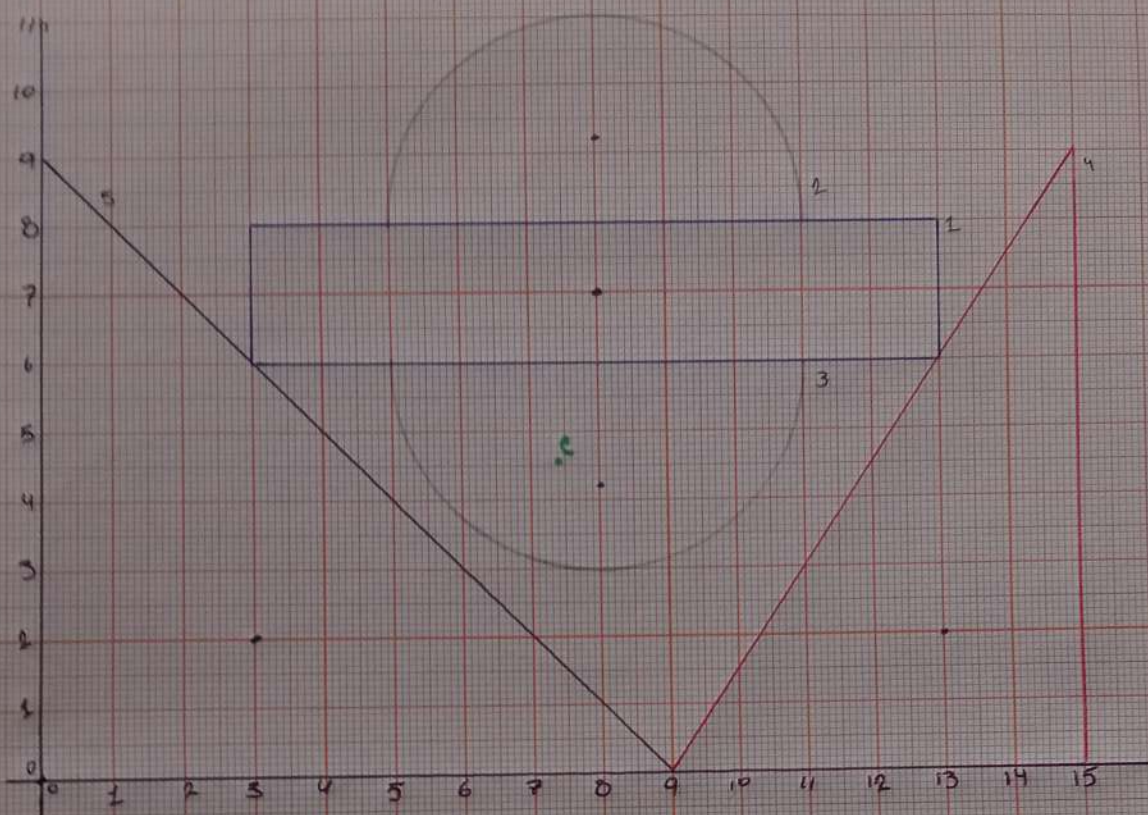
PARA LA

ARQUITECTURA

Nombre del alumno: Jimmy
Bernabé Vázquez Sánchez
ING.: Abel Estrada Dichi

UC. Arquitectura
3° Cuatrimestre
Actividad: Plataforma
3 Parcial





Centroids

Fig 1: (8, 7)

Fig 2: (8, 9.2)

Fig 3: (8, 4.2)

Fig 4: (13, 3)

Fig 5: (3, 3)

Areas

Fig 1: $10 \times 2 = 20 \text{ u}^2$

Fig 2: $\frac{\pi \times 3^2}{2} = 14.137 \text{ u}^2$

Fig 3: $\frac{\pi \times 3^2}{2} = 14.137 \text{ u}^2$

Fig 5: $\frac{9 \times 9}{2} = 40.5 \text{ u}^2$

Fig 4: $\frac{6 \times 9}{2} = 27 \text{ u}^2$

$x_{\text{Centroid}} = \frac{(20 \cdot 8) + (14.137 \cdot 8) + (14.137 \cdot 8) + (27 \cdot 13) + (40.5 \cdot 3)}{20 + 14.137 + 14.137 + 27 + 40.5} = \frac{858.692}{115.774}$

$x_{\text{Centroid}} = 7.416$

$y_{\text{Centroid}} = \frac{(20 \cdot 7) + (14.137 \cdot 9.2) + (14.137 \cdot 4.2) + (27 \cdot 3) + (40.5 \cdot 3)}{20 + 14.137 + 14.137 + 27 + 40.5}$

$\frac{531.935}{115.774}$

$y_{\text{Centroid}} = 4.594$