CENTROS DE GRAVEDAD

FERNANDA STEPHANIA RAMIREZ GUILLÉN

Parcial 2

TEMA: Centros de Gravedad

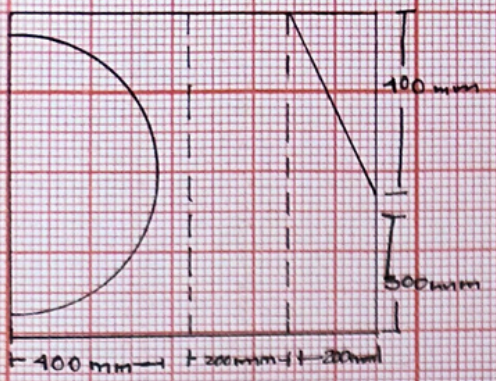
PEDRO ALBERTO GARCIA LOPEZ

REPORTE DE PRÁCTICA

Cuatrimestre 3°

15/06/2024

13 / JUNIO / 2024



$A_T = 800\,mm \times 700\,mm$

$= 5,600\,mm$

$Cg_y = \frac{700\,mm}{2} = 350\,mm$

$Cg_x = \frac{800\,mm}{2} = 400\,mm$

$A_2 = 400\,mm \times \frac{200\,mm}{2} = 400\,mm^2$

$A_2 = \frac{\pi \cdot r^2}{2} = \frac{3.416 \cdot 800m^2}{2}$

$= 1413.72\,mm$

$Cg_{x_2} = \frac{200\,mm}{3} = 66.66\,mm$

$Cg_{y_2} = \frac{400\,mm}{3} = 133.33\,mm$

$Cg_x = 127.32\,mm$

$Cg_y = 300\,mm + 100\,mm = 400\,mm$

$Cg_x = \frac{5600\,mm^2(400mm) - 400mm^2(66.66mm) + 1413.72mm(127.32mm)}{3\,986.28mm}$

$= 532.028\,mm$

$Cg_y = \frac{5600\,mm(350\,mm) - 400\,mm(133.33mm) - 1413.72mm(400mm)}{3\,986.28\,mm}$

$= 354.22\,mm$