NOMBRE DEL ALUMNO: JOCADED SOLIS MORALES

NOMBRE DEL ARQUITECTO: PERDRO GRACIA LOPEZ

MPNBRE DE LA MATERIA: ESTATICA PARA LA ARQUITECTURA
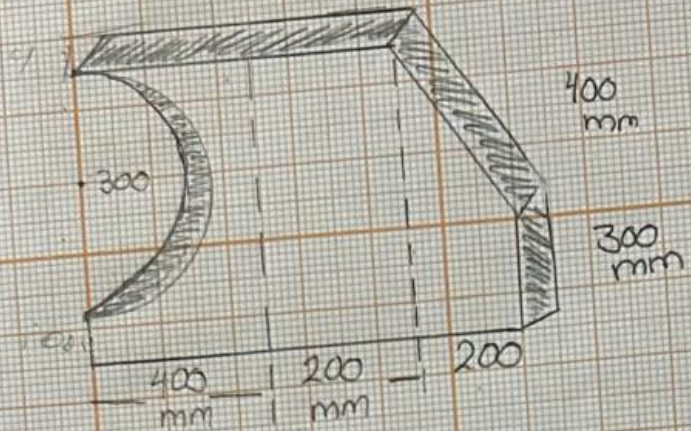
ARQUITECTURA

3° CUATRIMESTRE

2° PARCIAL

$A_1 = (800 \, mm)(700 \, mm) = 560,00$

$Cx_1 = \dfrac{800}{20} = 400$

$cg_1 = \dfrac{700}{2} = 350$

$A_2 = \dfrac{\pi \cdot R^2}{2} = 3.1416 \, (300 \, mm)^2 = 141.372$

$X_2 = \dfrac{4(300 \, mm)}{3(3.1416)} = 127.323 - 800 \, mm = 672.676$

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

$A_3 = -40,000 \, mm$

$X_3 = \dfrac{200}{3} = 66.666$

$y_3 = \dfrac{400}{3} = 133.33$

$cgx = \dfrac{560,000(400) + -141,372(672-676) + 40,000(66.666)}{378,628}$

$cgx = 333.403 \, mm$ ✓

$cgy = \dfrac{560,00(350) - 141,372(400 \, mm) + 40,000(133.333)}{378,628}$

$cgy = 354,220 \, mm$ ✓