

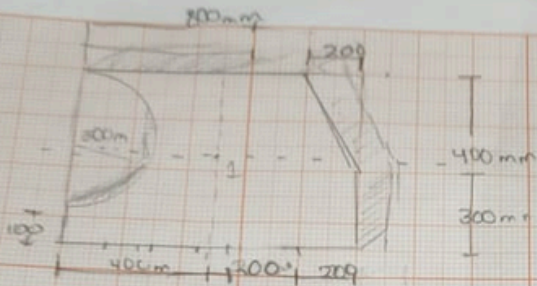
Mi Universidad

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MATERIA: ESTATICA PARA LA ARQUITECTURA

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CUATRIMESTRE: 3RO UNIDAD 2



$$C_x = A_1 x_1 + A_2 x_2$$

$$A_1 = (800\text{mm})(700\text{mm}) = 560,000$$

$$C_{x1} = \frac{800}{2} = 400$$

$$C_{y1} = \frac{700}{2} = 350$$

$$C_{gx} = \frac{560,000(400) - 141,372(672.676) + 40,000(66.666)}{378,628}$$

$$C_{gx} = 333.403\text{mm}$$

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

$$x_2 = \frac{4(300\text{mm})}{3(3.1416)} = 127.323 - 800\text{mm} = 672.676$$

$$x_2 = 300 + 100 = 400\text{mm}$$

$$C_{gy} = \frac{560,000(350) - 141,372(400\text{mm}) + 40,000(133.333)}{378,628}$$

$$C_{gy} = 354.220\text{mm}$$

$$x_3 = \frac{200}{3} = 66.666$$

$$y_3 = \frac{400}{3} = 133.333$$