ALUMNO(A): Carlos Antonio Ortega Ruiz

DOCENTE: Pedro Alberto García Lopez
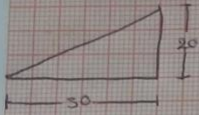
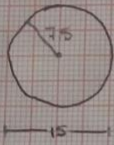**MATERIA: Estadística para la arquitectuta**

ACTIVIDAD: Ejercicios

CUATRIMESTRE: 3

GRUPO: Arquitectura
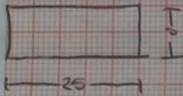
$$I_x = \frac{30(20)^3}{36} = \frac{240{,}000\ cm^4}{36} = 6666.66\ cm^4$$
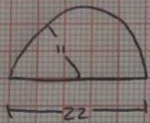
$$I_y = \frac{(30)^3\,20}{36} = \frac{540{,}000\ cm^4}{36} = 15000\ cm^4$$

$$I_y = \frac{3.14(6(7.5)^4}{4} = \frac{9940.218\ cm^2}{4} = 2485.054\ cm^4$$
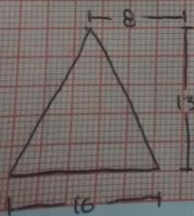
$$I_y = \frac{25(5)^3}{12} = \frac{3125\ cm^4}{12} = 260.416\ cm^4$$

$$\frac{(25)(5)}{12} = \frac{78125\ cm^4}{12} = 6510.41\ cm$$
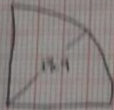
$$I_x = 6.1098(11)^4 = 1607.58\ cm^4$$

$$I_x = \frac{16(13.9)^3}{36} = \frac{41969.90\ cm^4}{36} = 1193.608\ cm^4$$

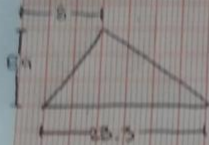$$I_y = \frac{(16)^3\,13.9}{48} = \frac{59934.40\ cm^4}{48} = 1186.133\ cm^4$$

República

$$I_x = I_y = 0.54188 \,(13.4\,cm)^4 = 1769.4246\,cm^4$$

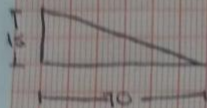$$I_x = \frac{23.3\,(8.9)^3}{36} = \frac{16425.77}{36} = 459.271\,cm^4$$

$$I_y = \frac{23.3\,(3.8)}{3}\,[(8)^2-(8\cdot23.8)+(23.5)] = 29.213\,cm = (420.49)$$
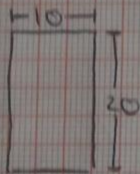
$$I_y = 12409.921\,cm^4$$

$$I_y = 23\,412.367\,cm^4$$

$$I_x = \frac{70(15)^3}{13} = \frac{236\,250}{36} = 6562.50\,cm^4$$
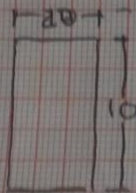
$$I_y = \frac{(70)^3\,15}{36} = \frac{5145000}{36} = 142916.666\,cm^4$$

$$I_x = \frac{10\,(20)^3}{12} = \frac{80000}{12} = 6666.66\,cm^4$$

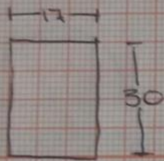$$I_y = \frac{(10)^3\,20}{12} = \frac{2000}{12} = 1666.66\,cm^4$$

$$I_x = \frac{20\,(10)^3}{12} = \frac{20000}{12} = 1666.66\,cm^4$$

$$I_y = \frac{(20)^3\,10}{12} = \frac{80000}{12} = 6666.66\,cm^4$$

$$I_x = \frac{17\,(30)^3}{12} = \frac{450000}{12} = 38250\ cm^4$$

$$I_y = \frac{(17)^3\,30}{12} = \frac{147390c}{12} = 12282,50\ cm^2$$