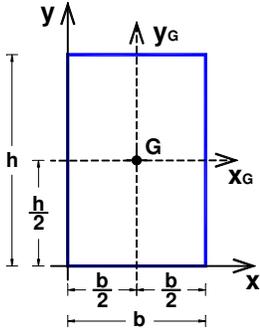
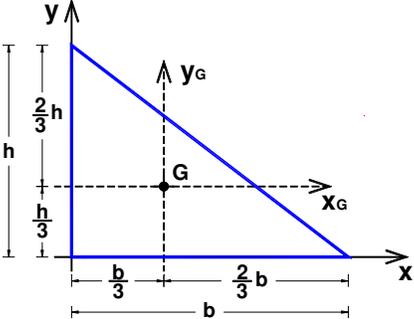
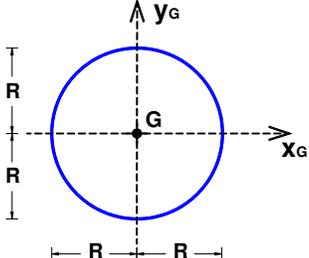
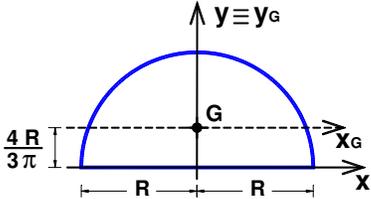
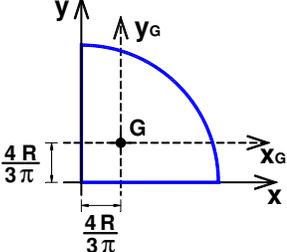


GEOMETRIA DE MASSAS

Centros de gravidade (G)	Momentos de Inércia (I)	Produtos de Inércia (I_{xy})
	$I_{X_G} = \frac{b h^3}{12}$ $I_X = \frac{b h^3}{3}$	$I_{X_G Y_G} = 0$ $I_{X Y} = \frac{b^2 h^2}{4}$
	$I_{X_G} = \frac{b h^3}{36}$ $I_X = \frac{b h^3}{12}$	$I_{X_G Y_G} = -\frac{b^2 h^2}{72}$ $I_{X Y} = \frac{b^2 h^2}{24}$
	$I_{X_G} = I_{Y_G} = \frac{\pi R^4}{4}$	$I_{X_G Y_G} = 0$
	$I_{X_G} = R^4 \left(\frac{\pi}{8} - \frac{8}{9\pi} \right) = 0,1098 R^4$ $I_X = \frac{\pi R^4}{8}$ $I_{Y_G} = I_Y = \frac{\pi R^4}{8}$	$I_{X_G Y_G} = 0$ $I_{X Y} = 0$
	$I_{X_G} = I_{Y_G} = R^4 \left(\frac{\pi}{16} - \frac{4}{9\pi} \right) = 0,05488 R^4$ $I_X = I_Y = \frac{\pi R^4}{16}$	$I_{X_G Y_G} = -R^4 \left(\frac{4}{9\pi} - \frac{1}{8} \right) = -0,016471 R^4$ $I_{X Y} = \frac{R^4}{8}$