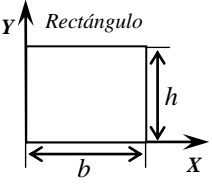
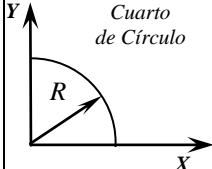
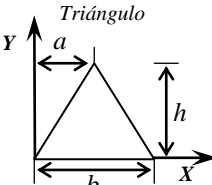
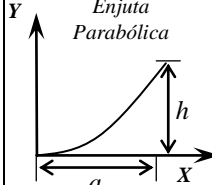
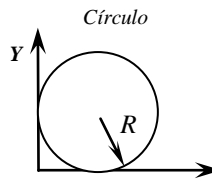
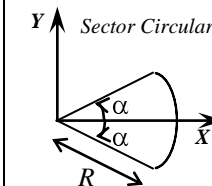
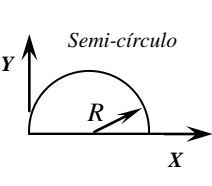
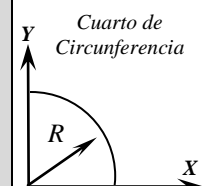
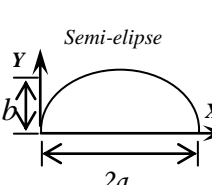
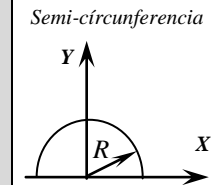
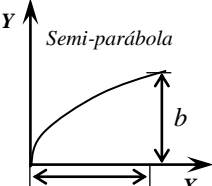
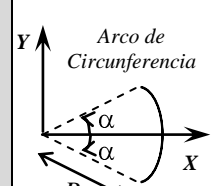


FIGURA	ÁREA Y CENTROIDE	MOMENTO DE INERCIA	PRODUCTO DE INERCIA	FIGURA	ÁREA Y CENTROIDE	MOMENTO DE INERCIA	PRODUCTO DE INERCIA
	$A = bh$ $\bar{X} = \frac{b}{2}$ $\bar{Y} = \frac{h}{2}$	$I_x = \frac{bh^3}{3}; I_y = \frac{b^3h}{3}$ $I_{x_c} = \frac{bh^3}{12}; I_{y_c} = \frac{b^3h}{12}$	$I_{xy} = \frac{b^2h^2}{4}$ $I_{x_c y_c} = 0$		$A = \frac{\pi R^2}{4}$ $\bar{X} = \bar{Y} = \frac{4R}{3\pi}$	$I_x = I_y = \frac{\pi R^4}{16}$ $I_{x_c} = I_{y_c} = \frac{R^4}{144\pi} (9\pi^2 - 64)$	$I_{xy} = \frac{R^4}{8}$ $I_{x_c y_c} = \frac{R^4}{72\pi} (9\pi - 32)$
	$A = \frac{bh}{2}$ $\bar{X} = \frac{a+b}{3}$ $\bar{Y} = \frac{h}{3}$	$I_x = \frac{bh^3}{12}; I_{x_c} = \frac{bh^3}{36}$ $I_y = \frac{bh}{12}(b^2 + ab + a^2)$ $I_{y_c} = \frac{bh}{36}(b^2 - ab + a^2)$	$I_{xy} = \frac{bh^2}{24}(2a+b)$ $I_{x_c y_c} = \frac{bh^2}{72}(2a-b)$		$A = \frac{ah}{3}$ $\bar{X} = \frac{3a}{4}$ $\bar{Y} = \frac{3h}{10}$	$I_x = \frac{ah^3}{21}$ $I_{x_c} = \frac{37ah^3}{2100}$ $I_y = \frac{a^3h}{5}; I_{y_c} = \frac{a^3h}{80}$	$I_{xy} = \frac{a^2h^2}{12}$ $I_{x_c y_c} = \frac{a^2h^2}{120}$
	$A = \pi R^2$ $\bar{X} = R$ $\bar{Y} = R$	$I_x = I_y = \frac{5\pi R^4}{4}$ $I_{x_c} = I_{y_c} = \frac{\pi R^4}{4}$	$I_{xy} = \pi R^4$ $I_{x_c y_c} = 0$		$A = \alpha R^2$ $\bar{X} = \frac{2R \text{Sen} \alpha}{3\alpha}$ $\bar{Y} = 0$	$I_x = I_{x_c} = \frac{R^4}{4}(\alpha - \text{Sen} \alpha \text{Cos} \alpha)$ $I_y = \frac{R^4}{4}(\alpha + \text{Sen} \alpha \text{Cos} \alpha)$ $I_{y_c} = \frac{R^4}{4}(\alpha + \text{Sen} \alpha \text{Cos} \alpha) - \left(\frac{2R \text{Sen} \alpha}{3\alpha}\right)^2 \cdot \alpha R^2$	$I_{xy} = 0$ $I_{x_c y_c} = 0$
	$A = \frac{\pi R^2}{2}$ $\bar{X} = R$ $\bar{Y} = \frac{4R}{3\pi}$	$I_x = \frac{\pi R^4}{8}; I_y = \frac{5\pi R^4}{8}$ $I_{x_c} = \frac{R^4(9\pi^2 - 64)}{72\pi}$ $I_{y_c} = \frac{\pi R^4}{8}$	$I_{xy} = \frac{2R^4}{3}$ $I_{x_c y_c} = 0$	<b>CENTROIDES DE LINEA</b>		<b>LONGITUD</b>	<b>CENTROIDE</b>
	$A = \frac{\pi ab}{2}$ $\bar{X} = a$ $\bar{Y} = \frac{4b}{3\pi}$	$I_x = \frac{\pi ab^3}{8}; I_y = \frac{5\pi a^3b}{8}$ $I_{x_c} = \frac{ab^3}{72\pi}(9\pi^2 - 64)$ $I_{y_c} = \frac{\pi a^3b}{8}$	$I_{xy} = \frac{2a^2b^2}{3}$ $I_{x_c y_c} = 0$			$L = \frac{\pi R}{2}$	$\bar{X} = \bar{Y} = \frac{2R}{\pi}$
	$A = \frac{2ab}{3}$ $\bar{X} = \frac{3a}{5}$ $\bar{Y} = \frac{3b}{8}$	$I_x = \frac{2ab^3}{15}; I_y = \frac{2a^3b}{7}$ $I_{x_c} = \frac{19ab^3}{480}; I_{y_c} = \frac{8a^3b}{175}$	$I_{xy} = \frac{a^2b^2}{6}$ $I_{x_c y_c} = \frac{a^2b^2}{60}$			$L = \pi R$	$\bar{X} = 0$ $\bar{Y} = \frac{2R}{\pi}$
						$L = 2\alpha R$	$\bar{X} = \frac{R \text{ Sen} \alpha}{\alpha}$ $\bar{Y} = 0$