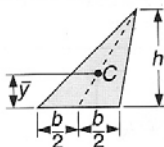
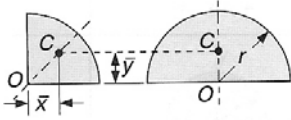
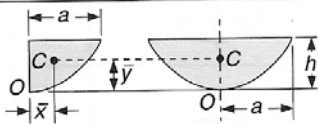
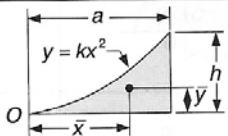
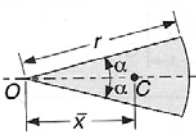
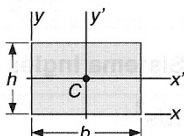
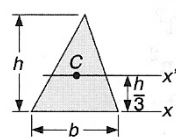
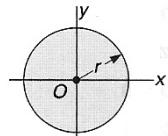
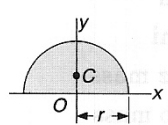
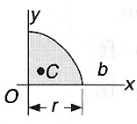
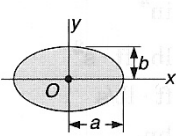


## CENTRÓIDES DE FIGURAS PLANAS

Figuras planas		$\bar{x}$	$\bar{y}$	Área
Triângulo			$\frac{h}{3}$	$\frac{bh}{2}$
Quadrante		$\frac{4r}{3\pi}$	$\frac{4r}{3\pi}$	$\frac{\pi r^2}{4}$
Semicírculo		0	$\frac{4r}{3\pi}$	$\frac{\pi r^2}{2}$
Semiparábola		$\frac{3a}{8}$	$\frac{3h}{5}$	$\frac{2ah}{3}$
Parábola		0	$\frac{3h}{5}$	$\frac{4ah}{3}$
Parábola		$\frac{3a}{4}$	$\frac{3h}{10}$	$\frac{ah}{3}$
Setor circular		$\frac{2r \text{ sen } \alpha}{3\alpha}$	0	$\alpha r^2$

## MOMENTOS DE ÍNERCIA DE FIGURAS PLANAS

Retângulo		$\bar{I}_x = \frac{1}{12} bh^3$ $\bar{I}_y = \frac{1}{12} b^3 h$ $I_x = \frac{1}{3} bh^3$ $I_y = \frac{1}{3} b^3 h$ $J_C = \frac{1}{12} bh(b^2 + h^2)$
Triângulo		$\bar{I}_x = \frac{1}{36} bh^3$ $\bar{I}_y = \frac{1}{12} bh^3$
Círculo		$\bar{I}_x = \bar{I}_y = \frac{1}{4} \pi r^4$ $J_O = \frac{1}{2} \pi r^4$
Semicírculo		$I_x = I_y = \frac{1}{8} \pi r^4$ $J_O = \frac{1}{4} \pi r^4$
Quadrante		$I_x = I_y = \frac{1}{16} \pi r^4$ $J_O = \frac{1}{8} \pi r^4$
Elipse		$\bar{I}_x = \frac{1}{4} \pi ab^3$ $\bar{I}_y = \frac{1}{4} \pi a^3 b$ $J_O = \frac{1}{4} \pi ab(a^2 + b^2)$