

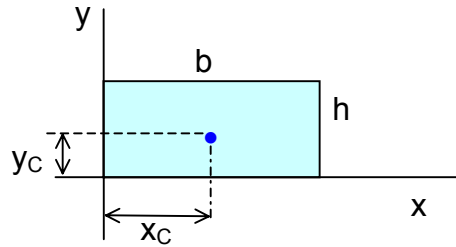
CENTROIDES DE SUPERFICIES

Rectángulo

$$A = bh$$

$$x_C = b / 2$$

$$y_C = h / 2$$

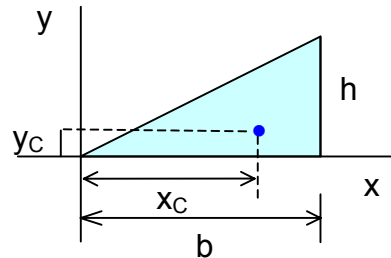


Triángulo rectángulo

$$A = bh / 2$$

$$x_C = 2b / 3$$

$$y_C = h / 3$$

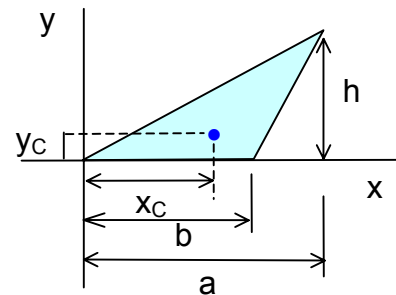


Triángulo escaleno

$$A = bh / 2$$

$$x_C = (a + b) / 3$$

$$y_C = h / 3$$

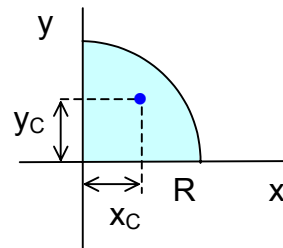


Cuadrante circular

$$A = \pi R^2 / 4$$

$$x_C = 4R / 3\pi$$

$$y_C = 4R / 3\pi$$



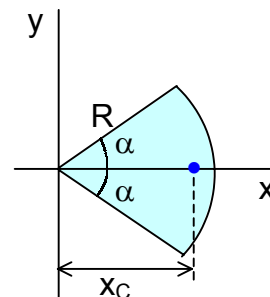
Sector circular

$$A = \alpha R^2$$

$$x_C = (2R \operatorname{sen} \alpha) / 3\alpha$$

$$y_C = 0$$

(ángulo α en radianes)



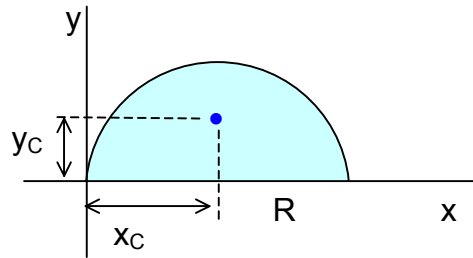
CENTROIDES DE SUPERFICIES

Semicírculo

$$A = \pi R^2 / 2$$

$$x_C = R$$

$$y_C = 4R / 3\pi$$

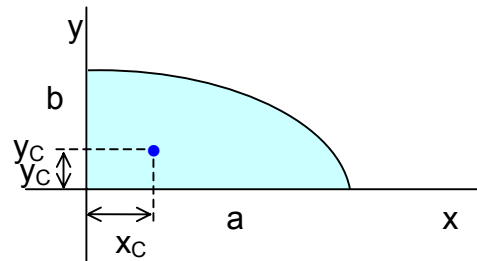


Cuadrante de elipse ($\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$)

$$A = \pi ab / 4$$

$$x_C = 4a / 3\pi$$

$$y_C = 4b / 3\pi$$

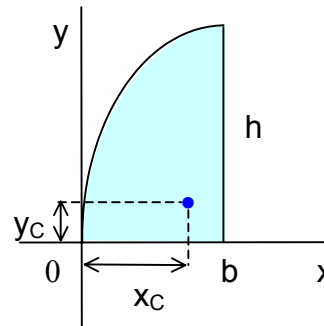


Superficie de parábola ($y \sim x^2$)

$$A = 2bh / 3$$

$$x_C = 5b / 8$$

$$y_C = 2h / 5$$

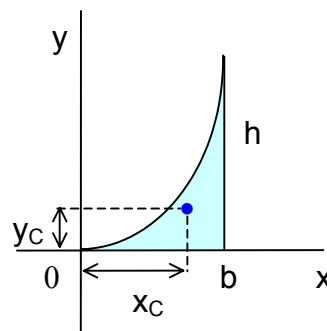


Superficie de parábola ($y \sim x^2$)

$$A = bh / 3$$

$$x_C = 3b / 4$$

$$y_C = 3h / 10$$

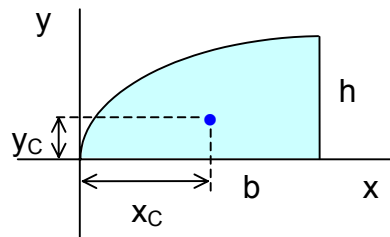


Superficie de parábola ($y^2 \sim x$)

$$A = 2bh / 3$$

$$x_C = 3b / 5$$

$$y_C = 3h / 8$$



CENTROIDES DE LINEAS

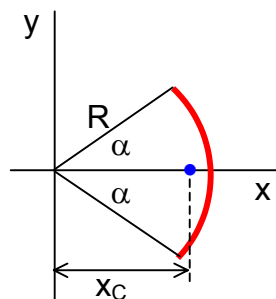
Arco de circunferencia

$$L = 2\alpha R$$

$$x_C = (R \operatorname{sen} \alpha) / \alpha$$

$$y_C = 0$$

(ángulo α en radianes)

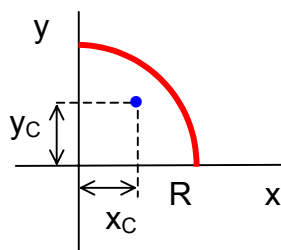


Cuadrante de circunferencia

$$L = \pi R / 2$$

$$x_C = 2R / \pi$$

$$y_C = 2R / \pi$$



Semicircunferencia

$$L = \pi R$$

$$x_C = R$$

$$y_C = 2R / \pi$$

