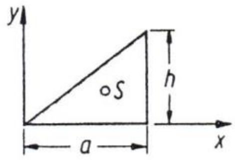
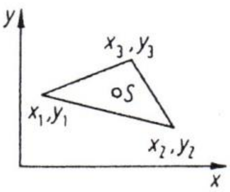
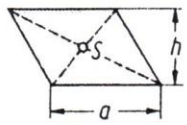
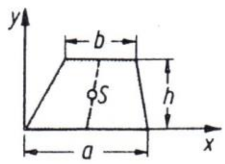
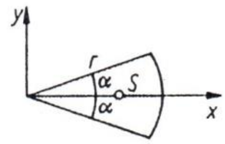
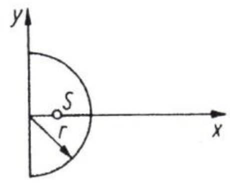
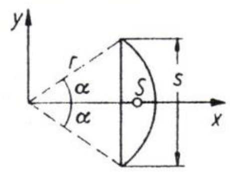
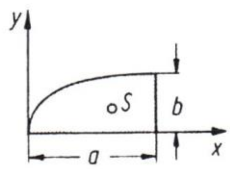
Schwerpunktskoordinaten

Fläche	Flächeninhalt	Lage des Schwerpunktes
rechtwinkliges Dreieck 	$A = \frac{1}{2}\, a\, h$	$x_s = \frac{2}{3}\, a, \quad y_s = \frac{h}{3}$
beliebiges Dreieck 	$A = \frac{1}{2}\,[(x_2 - x_1)(y_3 - y_1) - (x_3 - x_1)(y_2 - y_1)]$	S liegt im Schnittpunkt der Seitenhalbierenden $x_s = \frac{1}{3}(x_1 + x_2 + x_3)$ $y_s = \frac{1}{3}(y_1 + y_2 + y_3)$
Parallelogramm 	$A = a\, h$	S liegt im Schnittpunkt der Diagonalen
Trapez 	$A = \frac{h}{2}(a + b)$	S liegt auf der Seitenhalbierenden $y_s = \frac{h}{3}\,\frac{a + 2b}{a + b}$
Kreisausschnitt 	$A = \alpha\, r^2$	$x_s = \frac{2}{3}\, r\, \frac{\sin\alpha}{\alpha}$
Halbkreis 	$A = \frac{\pi}{2}\, r^2$	$x_s = \frac{4r}{3\pi}$
Kreisabschnitt 	$A = \frac{1}{2} r^2 (2\alpha - \sin 2\alpha)$	$x_s = \frac{s^3}{12A} = \frac{4}{3}\, r\, \frac{\sin^3\alpha}{2\alpha - \sin 2\alpha}$
quadratische Parabel 	$A = \frac{2}{3}\, a\, b$	$x_s = \frac{3}{5}\, a$ $y_s = \frac{3}{8}\, b$