

Conics Summary

Conic Section	Standard Form	Other Info.
Circle Centre (h, k) Radius r	$(x - h)^2 + (y - k)^2 = r^2$	Derived from the distance formula. $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2} = d$
Parabola - Vertex (h, k) Focus $(h, k + p)$ Directrix at $y = k - p$ Foci $(h + p, k)$ Directrix at $x = h - p$	$(x - h)^2 = 4p(y - k)$ $(y - k)^2 = 4p(x - h)$	$p > 0$ opens up, $p < 0$ opens down $p > 0$ opens right, $p < 0$ opens left
• Ellipse - Centre (h, k) • Horizontal major axis: $a > b$ Vertices: $(h \pm a, k)$ Foci: $(h \pm c, k)$ • Vertical major axis: $a > b$ Vertices: $(h, k \pm a)$ Foci: $(h, k \pm c)$	$\frac{(x - h)^2}{a^2} + \frac{(y - k)^2}{b^2} = 1$ $\frac{(y - k)^2}{a^2} + \frac{(x - h)^2}{b^2} = 1$	• The longer axis is called the major axis, the shorter axis is called the minor axis. • 'a' is the distance from the centre to each vertex (the end of the major axis). • 'b' is the distance from the centre to the end of the minor axis. • 'c' is the distance from the centre to each focus. $c^2 = a^2 - b^2$ • Length of major axis = $2a$ • Length of minor axis = $2b$
• Hyperbola - Centre (h, k) • Horizontal transverse axis (x coefficient is positive) Vertices: $(h \pm a, k)$ Foci: $(h \pm c, k)$ • Vertical transverse axis (y coefficient is positive) Vertices: $(h, k \pm a)$ Foci: $(h, k \pm c)$	$\frac{(x - h)^2}{a^2} - \frac{(y - k)^2}{b^2} = 1$ $\frac{(y - k)^2}{a^2} - \frac{(x - h)^2}{b^2} = 1$	• 'a' is the distance from the centre to each vertex. • 'b' is a point on the conjugate axis but is not a point on the hyperbola (it helps determine asymptotes). • 'c' is the distance from the centre to each focus. $c^2 = a^2 + b^2$ • Note: The transverse axis is <u>not necessarily</u> the longer axis but is associated with whichever variable is positive
$Ax^2 + Cy^2 + Dx + Ey + F = 0$	• If $A \cdot C < 0$ • ELLIPSE	• If $A \cdot C > 0$ • HYPERBOLA
		• If $A \cdot C = 0$ • PARABOLA
		• If $A = C$ • CIRCLE

General Form Of Conics Cheat Sheet

Wolfgang Guggemos



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Encyclopaedia Britannica ,1929 Trigonometry Cynthia Y. Young, 2011-11-15 S.A.E. Transactions Society of Automotive Engineers, 1967 Beginning in 1985 one section is devoted to a special topic

Engineering Geometry and Graphics Problems Hollie W. Shupe, 1957 **MATH BRIDGES TO A BETTER FUTURE:** James Elander, 2023-09-05 There s no available information at this time Author will provide once information is available

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Encyclopaedic Dictionary of Mathematics for Engineers and Applied Scientists Ian Naismith Sneddon,1976
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