

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

Marcel Berger



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Calculus with Analytic Geometry Paul Klein Rees, Fred Winchell Sparks, 1969

Analytic Geometry; a Precalculus Approach Ronald L. Bohuslov, 1970

Trigonometry Cynthia Y. Young, 2011-11-15

Encyclopaedia Britannica , 1929

The Encyclopedia Britannica James Louis Garvin, Franklin Henry Hooper, Warren E. Cox, 1929

S.A.E. Transactions Society of Automotive Engineers, 1967

Beginning in 1985 one section is devoted to a special topic

The Encyclopædia Britannica James Louis Garvin, Franklin Henry Hooper, Warren Earle Cox, 1929

Geometry Revealed Marcel Berger, 2010-07-23 Both classical geometry and modern differential geometry have been active subjects of research throughout the 20th century and lie at the heart of many recent advances in mathematics and physics The underlying motivating concept for the present book is that it offers readers the elements of a modern geometric culture by means of a whole series of visually appealing unsolved or recently solved problems that require the creation of concepts and tools of varying abstraction Starting with such natural classical objects as lines planes circles spheres polygons polyhedra curves surfaces convex sets etc crucial ideas and above all abstract concepts needed for attaining the results are elucidated These are conceptual notions each built above the preceding and permitting an increase in abstraction represented metaphorically by Jacob s ladder with its rungs the ladder in the Old Testament that angels ascended and descended In all this the aim of the book is to demonstrate to readers the unceasingly renewed spirit of geometry and that even so called elementary geometry is very much alive and at the very heart of the work of numerous contemporary mathematicians It is also shown that there are innumerable paths yet to be explored and concepts to be created The book is visually rich and inviting so that readers may open it at random places and find much pleasure

throughout according to their own intuitions and inclinations Marcel Berger is the author of numerous successful books on geometry this book once again is addressed to all students and teachers of mathematics with an affinity for geometry *The Divergent Beam (Kossel) X-ray Method and Its Uses in Measuring Strain Contours in an Individual Grain of Fe-3 Weight Percent Si Transformer Sheet* Harvey Yakowitz, 1973

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