

Algebra II - Conic Sections – Study Guide

Conic Sections are the locus of points created by the intersection of a plane and a cone which can be represented by a 2nd degree equation.

L When working with conic sections, it is useful to know

- 1) Distance formula: $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$
- 2) Midpoint formula: $mp = ((x_1 + x_2) \div 2), ((y_1 + y_2) \div 2)$

III. General formulas

Circle: $x^2 + y^2 + Dx + Ey + F = 0$ (x and y are both squared and have equal coefficients)

Parabola: $Ax^2 + Dx + Ey + F = 0$ or $Cy^2 + Dx + Ey + F = 0$ (x or y squared)

Ellipse: $Ax^2 + Cy^2 + Dx + Ey + F = 0$

Hyperbola: $Ax^2 - Cy^2 + Dx + Ey + F = 0$ (x and y coefficients are opposites)

III. Circles: Equation of a circle: $r^2 = (x-h)^2 + (y-k)^2$

Given partial information for a circle, be able to determine and/or sketch center, radius, equation, and circle. Be able to define a circle as a locus of points.

IV.	Parabola:	Equation of a parabola, if x^2 :	$y-k = a(x-h)^2$ or $4p(y-k) = (x-h)^2$ $f(h, k + (1/4a))$ axis of sym: $x = h$ $D: y = k - (1/4a)$
		Equation of a parabola, if y^2 :	$x-h = a(y-k)^2$ or $4p(x-h) = (y-k)^2$ $f(h + (1/4a), k)$ axis of sym: $y = k$ $D: x = h - (1/4a)$

Given partial information for a parabola, be able to determine and/or sketch focus, directrix, vertex, parabola, and equation. Be able to define a parabola as a locus of points.

V. Ellipses: Equation of an ellipse: $((x-h)^2/a^2) + ((y-k)^2/b^2) = 1$ $a > b$
 $a^2 - b^2 = c^2$ foci $(\pm c, k)$ or $(h, \pm c)$

Given partial information for a central ellipse, be able to determine and/or sketch major and minor axes, eccentricity, foci, co-vertices, equation, and ellipse. Know the meaning of and be able to use a , b , and c . Be able to define ellipse as a locus of points.

VI. Hyperbolae: Equation of a hyperbola, if on x axis: $((x-h)^2/a^2) - ((y-k)^2/b^2) = 1$
Equation of a hyperbola is on y axis: $((y-k)^2/b^2) - ((x-h)^2/a^2) = 1$
 $a^2 + b^2 = c^2$

Given partial information for a hyperbola, be able to determine and sketch fundamental rectangle, asymptotes, transverse, conjugate, foci, intercepts, vertices, and equation. Know the meaning of and be able to use a , b , and c . Be able to define a hyperbola as a locus of points.

Algebra 2 Conic Sections Study Guide

Raffaela Di Napoli



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