

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.

I. 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: $mp = ((x_1 + x_2) \div 2), ((y_1 + y_2) \div 2)$

II. 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. Parabolas: 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: $((x-h)^2 \div a^2) + ((y-k)^2 \div b^2) = 1$ $a > b$
 $a^2 - b^2 = c^2$ 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. Hyperbolas: Equation of a hyperbola, if on x axis: $((x-h)^2 \div a^2) - ((y-k)^2 \div b^2) = 1$
 Equation of a hyperbola is on y axis: $((y-k)^2 \div a^2) - ((x-h)^2 \div b^2) = 1$
 $a^2 + b^2 = c^2$

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.

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