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.

- When working with conic sections, it is useful to know:
 - 1) Distance formula: $d = \sqrt{(x_2 x_1)^2 + (y_2 y_1)^2}$
 - Midpoint formula: mp =((x₁ x₂) + 2), ((y₁ y₂) + 2)
- II. General formulas:

Circle:
$$x^a + y^a + Dx + Ey + F = 0$$
 (x and y are both squared and have equal coefficients)
Parabola: $Ax^a + Dx + Ey + F = 0$ or $Cy^a + Dx + Ey + F = 0$ (x or y squared)
Ellipse: $Ax^a + Cy^a + Dx + Ey + F = 0$
Hyperbola: $Ax^a - Cy^a + Dx + Ey + F = 0$ (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. Parabolae: Equation of a parabola, if x^a : $y \cdot k = a(x-h)^a \quad \text{or } 4p(y-k) = (x-h)^a$ $f(h, k + (1/4a)) \quad \text{axis of sym: } x = h$ D: y = k - (1/4a) $x \cdot h = a(y-k)^a \quad \text{or } 4p(x-h) = (y-k)^a$ $f(h + (1/4a), k) \quad \text{axis of sym: } y = k$ 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.

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.

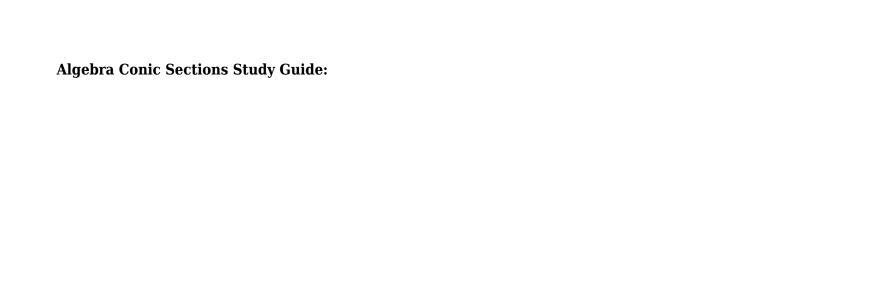
VI. Hyperbolae: Equation of a hyperbola, if on x axis:
$$((x-h)^2 + a^2) - ((y-k)^2 + b^2) = 1$$
 Equation of a hyperbola is on y axis:
$$((y-k)^2 + a^2) - ((x-h)^2 + b^2) = 1$$

$$a^2 + b^2 = c^2$$

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.

Algebra Conic Sections Study Guide

Jianjun Gao



Unveiling the Energy of Verbal Artistry: An Mental Sojourn through Algebra Conic Sections Study Guide

In a global inundated with screens and the cacophony of instant communication, the profound power and mental resonance of verbal art often disappear into obscurity, eclipsed by the continuous assault of sound and distractions. However, situated within the lyrical pages of **Algebra Conic Sections Study Guide**, a fascinating work of literary beauty that pulses with natural feelings, lies an memorable journey waiting to be embarked upon. Published by a virtuoso wordsmith, this mesmerizing opus manuals visitors on a psychological odyssey, softly revealing the latent potential and profound impact stuck within the intricate web of language. Within the heart-wrenching expanse of the evocative analysis, we will embark upon an introspective exploration of the book is main styles, dissect its charming publishing fashion, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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