

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

Huangqi Zhang

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Table of Contents General Form Of Conics Cheat Sheet

1. Understanding the eBook General Form Of Conics Cheat Sheet
 - The Rise of Digital Reading General Form Of Conics Cheat Sheet
 - Advantages of eBooks Over Traditional Books
2. Identifying General Form Of Conics Cheat Sheet
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in a General Form Of Conics Cheat Sheet
 - User-Friendly Interface
4. Exploring eBook Recommendations from General Form Of Conics Cheat Sheet
 - Personalized Recommendations
 - General Form Of Conics Cheat Sheet User Reviews and Ratings

- General Form Of Conics Cheat Sheet and Bestseller Lists
- 5. Accessing General Form Of Conics Cheat Sheet Free and Paid eBooks
 - General Form Of Conics Cheat Sheet Public Domain eBooks
 - General Form Of Conics Cheat Sheet eBook Subscription Services
 - General Form Of Conics Cheat Sheet Budget-Friendly Options
- 6. Navigating General Form Of Conics Cheat Sheet eBook Formats
 - ePub, PDF, MOBI, and More
 - General Form Of Conics Cheat Sheet Compatibility with Devices
 - General Form Of Conics Cheat Sheet Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of General Form Of Conics Cheat Sheet
 - Highlighting and Note-Taking General Form Of Conics Cheat Sheet
 - Interactive Elements General Form Of Conics Cheat Sheet
- 8. Staying Engaged with General Form Of Conics Cheat Sheet
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers General Form Of Conics Cheat Sheet
- 9. Balancing eBooks and Physical Books General Form Of Conics Cheat Sheet
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection General Form Of Conics Cheat Sheet
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine General Form Of Conics Cheat Sheet
 - Setting Reading Goals General Form Of Conics Cheat Sheet
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of General Form Of Conics Cheat Sheet
 - Fact-Checking eBook Content of General Form Of Conics Cheat Sheet
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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