

$$f(x) = ax^2 + bx + c$$

axis of symmetry: $-\frac{b}{2a}$
y-intercept: c
vertex: (h, k)

Vertex form: $y = (x - h)^2 + k$

Ex: $a=1$

$$\begin{aligned} y &= x^2 + 2x + 6 \quad \leftarrow ? \text{ is half of } b \\ y &= (x^2 + 2x + ?) + 6 \quad \text{squared } \left(\frac{b}{2}\right)^2 \\ y &= (x^2 + 2x + 1) + 6 - 1 \\ y &= (x + 1)^2 + 5 \end{aligned}$$

Ex: $a>1$

$$\begin{aligned} y &= 2x^2 - 12x + 3 \quad \leftarrow \left(\frac{6}{2}\right)^2 = 9 \\ y &= 2(x^2 - 6x + 9) + 3 - 18 \quad \leftarrow 9 \times 2 \\ y &= 2(x - 3)^2 - 15 \end{aligned}$$

discriminant = $b^2 - 4ac$ > 0 = 1 solution
positive = 2 solutions negative = 0 no solution

Parabolas

$$(x - h)^2 = 4p(y - k)$$

$\uparrow p > 0$ $\downarrow p < 0$

vertex: (h, k)
focus: $(h, k + p)$
axis of symmetry: $x = h$
directrix d: $y = k - p$

$$(y - k)^2 = 4p(x - h)$$

$\leftarrow p > 0$ $\rightarrow p < 0$

vertex: (h, k)
focus: $(h + p, k)$
axis of symmetry: $y = k$
directrix d: $x = h - p$

hyperbolas

$$\frac{(x - h)^2}{a^2} - \frac{(y - k)^2}{b^2} = 1$$

center: (h, k)
vertices: $(h \pm a, k)$
foci: $(h \pm c, k)$
transverse axis: $y = k$
conjugate axis: $x = h$
asymptotes: $y - k = \pm \frac{b}{a}(x - h)$

$$\frac{(y - k)^2}{a^2} - \frac{(x - h)^2}{b^2} = 1$$

center: (h, k)
vertices: $(h, k \pm a)$
foci: $(h, k \pm c)$
transverse axis: $x = h$
conjugate axis: $y = k$
asymptotes: $y - k = \pm \frac{a}{b}(x - h)$

a is always the first, non-zero



$$\frac{(x - h)^2}{a^2} + \frac{(y - k)^2}{b^2} = 1$$

ellipses

center: (h, k) major axis: $y = k$
foci: $(h \pm c, k)$ minor axis: $x = h$
vertices: $(h \pm a, k)$
co-vertices: $(h, k \pm b)$

$$\uparrow c^2 = a^2 - b^2 \text{ or } c = \sqrt{a^2 - b^2} \downarrow$$



$$\frac{(x - h)^2}{b^2} + \frac{(y - k)^2}{a^2} = 1$$

center: (h, k) major axis: $x = h$
foci: $(h, k \pm c)$ minor axis: $y = k$
vertices: $(h, k \pm a)$
co-vertices: $(h \pm b, k)$

the equations above need to equal 1 to be in standard form
eccentricity: $e = \frac{c}{a}$

$\leftarrow$ determines how 'circular' or 'stretched' it is

$\leftarrow$ always between 0 and 1

larger denominator is a
 a is half the length of the major axis
 b is half the length of the minor axis

circles

$$(x - h)^2 + (y - k)^2 = r^2$$

r = radius center = (h, k)

classifying conics using discriminant

$$Ax^2 + Bxy + Cy^2 + Dx + Ey + F = 0$$

$$\text{circles: } B^2 - 4AC < 0; B \neq 0, A = C$$

$$\text{ellipse: } B^2 - 4AC < 0; B \neq 0, A \neq C$$

$$\text{parabola: } B^2 - 4AC = 0$$

$$\text{hyperbola: } B^2 - 4AC > 0$$

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Zhe Xu



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Table of Contents Cheat Sheet For Pre Calculus

1. Understanding the eBook Cheat Sheet For Pre Calculus
 - The Rise of Digital Reading Cheat Sheet For Pre Calculus
 - Advantages of eBooks Over Traditional Books
2. Identifying Cheat Sheet For Pre Calculus
 - 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 an Cheat Sheet For Pre Calculus
 - User-Friendly Interface
4. Exploring eBook Recommendations from Cheat Sheet For Pre Calculus
 - Personalized Recommendations
 - Cheat Sheet For Pre Calculus User Reviews and Ratings
 - Cheat Sheet For Pre Calculus and Bestseller Lists
5. Accessing Cheat Sheet For Pre Calculus Free and Paid eBooks
 - Cheat Sheet For Pre Calculus Public Domain eBooks
 - Cheat Sheet For Pre Calculus eBook Subscription Services
 - Cheat Sheet For Pre Calculus Budget-Friendly Options
6. Navigating Cheat Sheet For Pre Calculus eBook Formats

- ePub, PDF, MOBI, and More
- Cheat Sheet For Pre Calculus Compatibility with Devices
- Cheat Sheet For Pre Calculus Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Cheat Sheet For Pre Calculus
 - Highlighting and Note-Taking Cheat Sheet For Pre Calculus
 - Interactive Elements Cheat Sheet For Pre Calculus
- 8. Staying Engaged with Cheat Sheet For Pre Calculus
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Cheat Sheet For Pre Calculus
- 9. Balancing eBooks and Physical Books Cheat Sheet For Pre Calculus
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Cheat Sheet For Pre Calculus
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Cheat Sheet For Pre Calculus
 - Setting Reading Goals Cheat Sheet For Pre Calculus
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Cheat Sheet For Pre Calculus
 - Fact-Checking eBook Content of Cheat Sheet For Pre Calculus
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
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