

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

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

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

ex: $a = 1$

$y = x^2 + 2x + 6$ ← ? is half of b
 $y = (x^2 + 2x + ?) + 6$ squared $(\frac{b}{2})^2$
 $y = (x^2 + 2x + 1) + 6 - 1$
 $y = (x + 1)^2 + 5$

ex: $a > 1$

$y = 2x^2 - 12x + 3$ ← $(\frac{6}{2})^2 = 9$
 $y = 2(x^2 - 6x + 9) + 3 - 18$ ← 9×2
 $y = 2(x - 3)^2 - 15$

discriminant = $b^2 - 4ac$

> 0 = 1 solution
 > 0 = 2 solutions
 < 0 = no solution

Parabolas

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

$p > 0$ $p < 0$

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

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

$p > 0$ $p < 0$

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

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, not b or c


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

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

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


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

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: $e = \frac{c}{a}$

determines how 'circular' or 'stretched' it is

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 $\frac{(x - h)^2}{r^2} + \frac{(y - k)^2}{r^2} = 1$
 r = radius center = (h, k)

classifying conics using discriminant

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

circle: $B^2 - 4AC < 0$; $B \neq 0$, $A = C$

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

parabola: $B^2 - 4AC = 0$

hyperbola: $B^2 - 4AC > 0$

Algebra Notetaking Guide Chapter 6

James F. Davis, Paul Kirk



Algebra Notetaking Guide Chapter 6:

Decoding **Algebra Notetaking Guide Chapter 6**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Algebra Notetaking Guide Chapter 6**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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Table of Contents Algebra Notetaking Guide Chapter 6

1. Understanding the eBook Algebra Notetaking Guide Chapter 6
 - The Rise of Digital Reading Algebra Notetaking Guide Chapter 6
 - Advantages of eBooks Over Traditional Books
2. Identifying Algebra Notetaking Guide Chapter 6
 - 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 Algebra Notetaking Guide Chapter 6
 - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra Notetaking Guide Chapter 6
 - Personalized Recommendations
 - Algebra Notetaking Guide Chapter 6 User Reviews and Ratings
 - Algebra Notetaking Guide Chapter 6 and Bestseller Lists

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