

CALCULUS 1

ANALYTIC GEOMETRY

Cheat Sheet

CARTESIAN PLANE



5 EQUATION OF A LINE

- SLOPE-INTERCEPT FORM**
 $y = mx + b$
- POINT-SLOPE FORM**
 $y - y_1 = m(x - x_1)$
- INTERCEPT FORM**
 $\frac{x}{a} + \frac{y}{b} = 1$
- TWO-POINT FORM**
 $y - y_1 = \frac{y_2 - y_1}{x_2 - x_1}(x - x_1)$
- GENERAL FORM**
 $ax + by + c = 0$

CIRCLE

Center (0,0) $x^2 + y^2 = r^2$
 (h,k) $(x-h)^2 + (y-k)^2 = r^2$



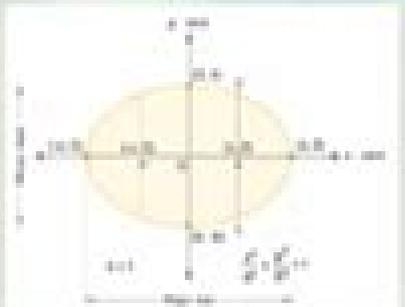
PARABOLA

Vertex (0,0) $y = ax^2$
 (h,k) $y - k = a(x - h)^2$



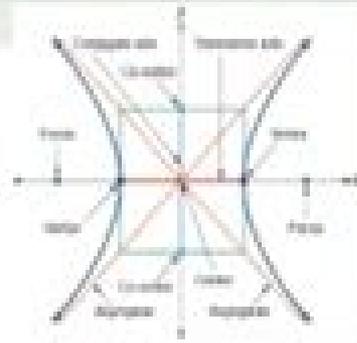
ELLIPSES

Center (0,0) $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$
 (h,k) $\frac{(x-h)^2}{a^2} + \frac{(y-k)^2}{b^2} = 1$



HYPERBOLA

Center (0,0) $\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$
 (h,k) $\frac{(x-h)^2}{a^2} - \frac{(y-k)^2}{b^2} = 1$



DISTANCE FORMULA

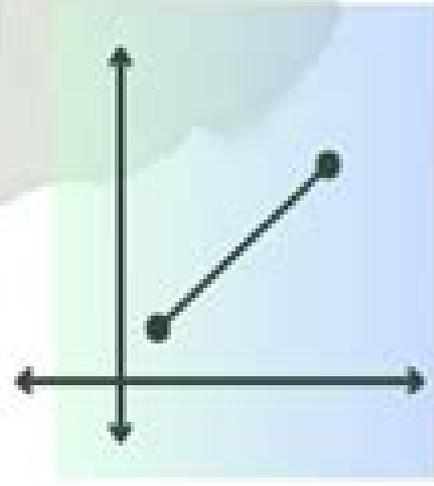


MIDPOINT FORMULA



SLOPE FORMULA

Slope = m = $\frac{rise}{run} = \frac{y_2 - y_1}{x_2 - x_1}$



Calculus With Analytic Geometry

Louis Leithold



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Table of Contents Calculus With Analytic Geometry

1. Understanding the eBook Calculus With Analytic Geometry
 - The Rise of Digital Reading Calculus With Analytic Geometry
 - Advantages of eBooks Over Traditional Books
2. Identifying Calculus With Analytic Geometry
 - 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 Calculus With Analytic Geometry
 - User-Friendly Interface
4. Exploring eBook Recommendations from Calculus With Analytic Geometry
 - Personalized Recommendations
 - Calculus With Analytic Geometry User Reviews and Ratings

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