CALCULUS 1
ANALYTIC GEOMETRY
Cheat Sheet

CARTESIAN PLANE

CONIC SECTIONS

parabola   circle   ellipse   hyperbola

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
$$y - y_1 = \frac{y_2 - y_1}{x_2 - x_1}(x - x_1)$$
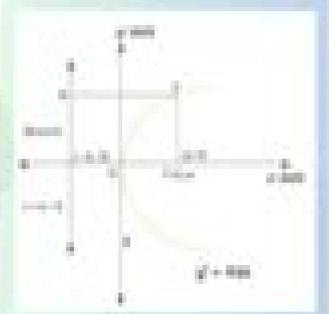
GENERAL FORM
$$ax + by + c = 0$$

CIRCLE

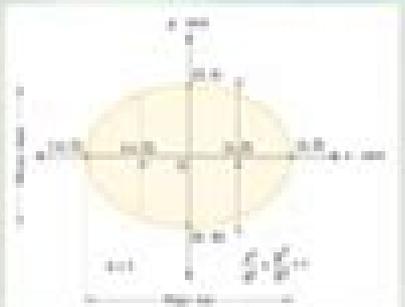Center
$(0,0)$ $x^2 + y^2 = r^2$
(h,k) $(x-h)^2 + (y-k)^2 = r^2$

PARABOLA

Vertex $(0,0)$ (h,k)
$$y^2 = 4px \quad (x-h)^2 = 4p(y-k)$$
$$y^2 = -4py \quad (x-h)^2 = -4p(y-k)$$
$$y^2 = 4px \quad (y-k)^2 = 4p(x-h)$$
$$y^2 = -4px \quad (y-k)^2 = -4p(x-h)$$

ELLIPSES

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

DISTANCE FORMULA

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

MIDPOINT FORMULA

$$\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$$
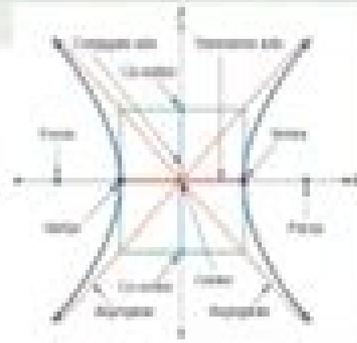
SLOPE FORMULA

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

HYPERBOLA

Center $(0,0)$ (h,k)
$$\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1 \quad \frac{(x-h)^2}{a^2} - \frac{(y-k)^2}{b^2} = 1$$
$$\frac{y^2}{a^2} - \frac{x^2}{b^2} = 1 \quad \frac{(y-k)^2}{a^2} - \frac{(x-h)^2}{b^2} = 1$$
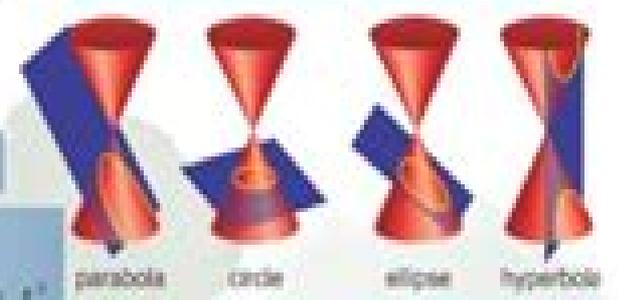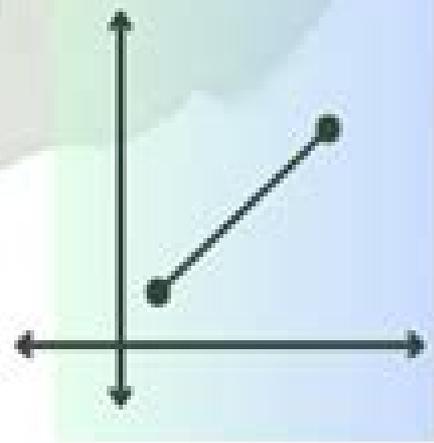
The Calculus With Analytic Geometry

Tao Wei

The Calculus With Analytic Geometry:

The book delves into The Calculus With Analytic Geometry. The Calculus With Analytic Geometry is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into The Calculus With Analytic Geometry, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

   - Chapter 1: Introduction to The Calculus With Analytic Geometry
   - Chapter 2: Essential Elements of The Calculus With Analytic Geometry
   - Chapter 3: The Calculus With Analytic Geometry in Everyday Life
   - Chapter 4: The Calculus With Analytic Geometry in Specific Contexts
   - Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of The Calculus With Analytic Geometry. This chapter will explore what The Calculus With Analytic Geometry is, why The Calculus With Analytic Geometry is vital, and how to effectively learn about The Calculus With Analytic Geometry.

3. In chapter 2, this book will delve into the foundational concepts of The Calculus With Analytic Geometry. This chapter will elucidate the essential principles that need to be understood to grasp The Calculus With Analytic Geometry in its entirety.

4. In chapter 3, this book will examine the practical applications of The Calculus With Analytic Geometry in daily life. This chapter will showcase real-world examples of how The Calculus With Analytic Geometry can be effectively utilized in everyday scenarios.

5. In chapter 4, this book will scrutinize the relevance of The Calculus With Analytic Geometry in specific contexts. This chapter will explore how The Calculus With Analytic Geometry is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about The Calculus With Analytic Geometry. The final chapter will summarize the key points that have been discussed throughout the book.
   The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of The Calculus With Analytic Geometry.

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