

## PRE-CALCULUS

### Defining Conic Sections

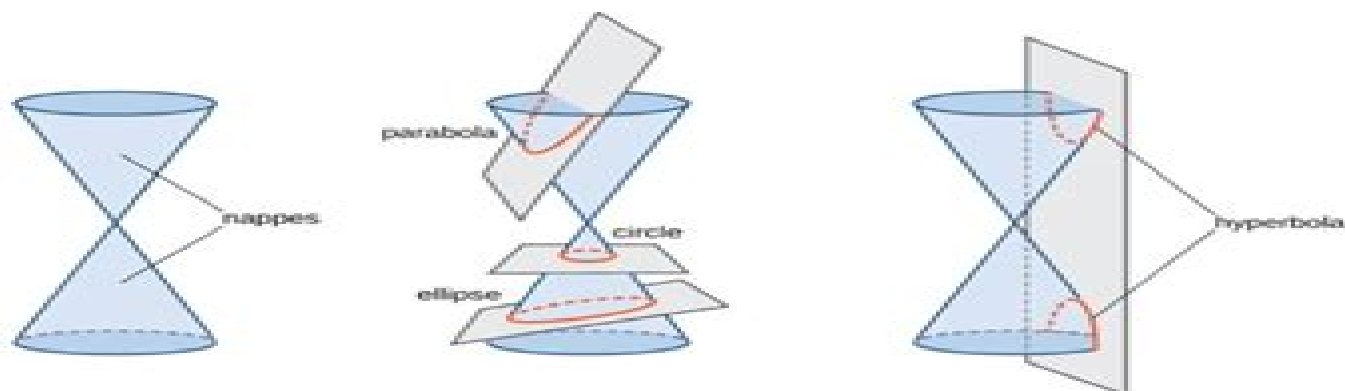
- A **conic section** (or simply **conic**) is a curve obtained as the intersection of the surface of a cone with a plane. The three types of conic sections are the hyperbola, the parabola, and the ellipse. The circle is type of ellipse, and is sometimes considered to be a fourth type of conic section.

### Key Points:

- A **conic section** (or simply **conic**) is a curve obtained as the intersection of the surface of a cone with a plane; the three types are parabolas, ellipses, and hyperbolas.
- A conic section can be graphed on a **coordinate plane**.
- **vertex**: An extreme point on a conic section.
- **nappe**: One half of a double cone.
- **conic section**: Any curve formed by the intersection of a plane with a cone of two nappes.

Conic sections are generated by the intersection of a plane with a cone.

- If the plane is parallel to the axis of revolution (the y-axis), then the conic section is a **hyperbola**.
- If the plane is parallel to the generating line, the conic section is a **parabola**.
- If the plane is perpendicular to the axis of revolution, the conic section is a **circle**.
- If the plane intersects one nappe at an angle to the axis (other than 90), then the conic section is an **ellipse**.



**A cone and conic sections:** The nappes and the four conic sections. Each conic is determined by the angle the plane makes with the axis of the cone.

## Page 5 Exploration Pre Cal

**Siddappa N.Byrareddy**



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**Model-Centered Learning** Lingguo Bu, Robert Schoen, 2012-01-01 Model Centered Learning Pathways to Mathematical Understanding Using GeoGebra is the first book to report on the international use of GeoGebra and its growing impact on mathematics teaching and learning Supported by new developments in model centered learning and instruction the chapters in this book move beyond the traditional views of mathematics and mathematics teaching providing theoretical perspectives and examples of practice for enhancing students mathematical understanding through mathematical and didactical modeling Designed specifically for teaching mathematics GeoGebra integrates dynamic multiple representations in a conceptually rich learning environment that supports the exploration construction and evaluation of mathematical models and simulations The open source nature of GeoGebra has led to a growing international community of mathematicians teacher educators and classroom teachers who seek to tackle the challenges and complexity of mathematics education through a grassroots initiative using instructional innovations The chapters cover six themes 1 the history philosophy and theory behind GeoGebra 2 dynamic models and simulations 3 problem solving and attitude change 4 GeoGebra as a cognitive and didactical tool 5 curricular challenges and initiatives 6 equity and sustainability in technology use This book should be of interest to mathematics educators mathematicians and graduate students in STEM education and instructional technologies

Theoretical Computer Science: Exploring New Frontiers of Theoretical Informatics Jan Leeuwen,2000-07-26 This book constitutes the refereed proceedings of the International Conference IFIP TCS 2000 held in Sendai Japan in August 2000 The 32 revised full papers presented together with nine invited contributions were carefully reviewed and selected from a total of 70 submissions The papers are organized in two tracks on algorithms complexity and models of computation and on logics semantics specification and verification The book is devoted to exploring new frontiers of theoretical informatics and addresses all current topics in theoretical computer science

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*Catalogue of the Library of the Mercantile Library Association of San Francisco* San Francisco (Calif.). Mercantile Library Association,1874

*Code of Federal Regulations* ,1993 Special edition of the Federal Register containing a codification of documents of general applicability and future effect with ancillaries

**Preliminary Report Concerning Explorations and Surveys, Principally in Nevada and Arizona** United States. Army. Corps of Engineers,1872

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**EBOOK: Applied Calculus for Business, Economics and the Social and Life Sciences, Expanded Edition** Laurence Hoffmann,Gerald Bradley,David Sobecki,Michael Price,2012-02-16 Applied Calculus for Business Economics and the Social and Life Sciences Expanded Edition provides a sound intuitive understanding of the basic concepts students need as they pursue careers in business economics and the life and social sciences Students achieve success using this text as a result of the author's applied and real world orientation to concepts problem solving approach straight forward and concise writing style and comprehensive exercise sets More than 100 000 students worldwide have studied from this text

Federal Register ,1977-01-10

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