

Precalc AB Unit 7 Review (Conics)

Let's start by identifying and graphing each conic. Find the center, focus/foci, vertex/vertices, equations of asymptotes, and directrix for each, where applicable:

1. $\frac{4x^2}{12} + \frac{3y^2}{12} = \frac{12}{12}$

$$\frac{x^2}{3} + \frac{y^2}{4} = 1$$

$$a = 2$$

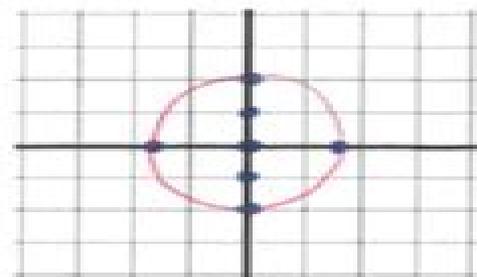
$$b = \sqrt{3}$$

$$c^2 = a^2 - b^2$$

$$c^2 = 4 - 3 \quad c = 1$$

Ellipse! Facing 0

center: (0,0)
 vertices: (0,2) (0,-2)
 co-vertices: ($\sqrt{3}$,0) ($-\sqrt{3}$,0)
 foci: (0,1) (0,-1)



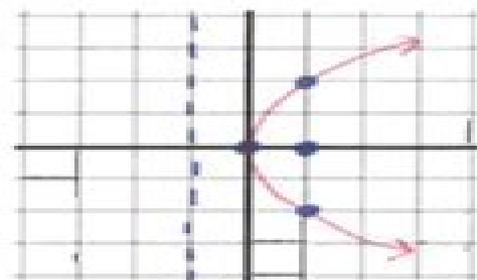
2. $y^2 = 4x$

$$4p = 4$$

$$p = 1$$

Parabola! Facing \odot

vertex: (0,0)
 focus: (1,0)
 directrix: $x = -1$
 focal width = 4



3. $4x^2 - y^2 + 2y = 5$ Hyperbola! Facing $\odot \odot$

$$4x^2 - (y^2 - 2y + \underline{1}) = 5 + \underline{-1}$$

$$\frac{4x^2}{4} - \frac{(y-1)^2}{4} = \frac{4}{4}$$

$$x^2 - \frac{(y-1)^2}{4} = 1$$

$$a = 1$$

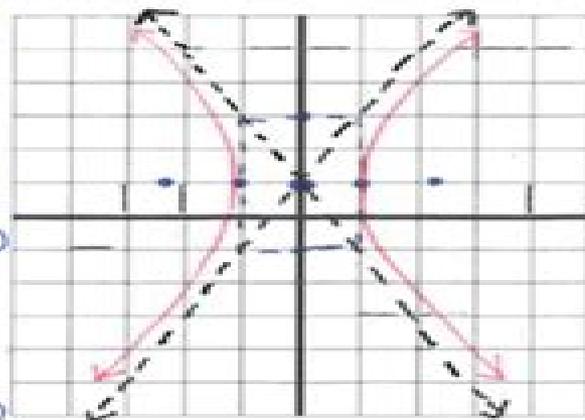
$$b = 2$$

$$c^2 = a^2 + b^2$$

$$c^2 = 1 + 4 \quad c^2 = 5 \quad c = \sqrt{5}$$

center: (0,1)
 vertices: (-1,1) (1,1)
 co-vertices: (0,-1) (0,3)
 foci: ($\pm\sqrt{5}$, 1)

asymptotes:
 $y = \pm 2x + 1$
 or $y - 1 = \pm 2(x - 0)$
 $y - 1 = \pm 2x$



Evaluating Conics Key

Maha Ashour-Abdalla



Evaluating Conics Key:

Geometric Algebra with Applications in Engineering Christian Perwass, 2009-02-11 The application of geometric algebra to the engineering sciences is a young active subject of research The promise of this field is that the mathematical structure of geometric algebra together with its descriptive power will result in intuitive and more robust algorithms This book examines all aspects essential for a successful application of geometric algebra the theoretical foundations the representation of geometric constraints and the numerical estimation from uncertain data Formally the book consists of two parts theoretical foundations and applications The first part includes chapters on random variables in geometric algebra linear estimation methods that incorporate the uncertainty of algebraic elements and the representation of geometry in Euclidean projective conformal and conic space The second part is dedicated to applications of geometric algebra which include uncertain geometry and transformations a generalized camera model and pose estimation Graduate students scientists researchers and practitioners will benefit from this book The examples given in the text are mostly recent research results so practitioners can see how to apply geometric algebra to real tasks while researchers note starting points for future investigations Students will profit from the detailed introduction to geometric algebra while the text is supported by the author's visualization software CLUCalc freely available online and a website that includes downloadable exercises slides and tutorials

Space Plasmas Maha Ashour-Abdalla, 1995-01-09 Published by the American Geophysical Union as part of the Geophysical Monograph Series Volume 86 This volume addresses the issue of achieving agreement between space observations and that body of plasma theory that attempts to account for the interrelations of plasma behavior and electromagnetic inhomogeneities and fluctuations It is difficult to assign a single name to this area of research because most of the terms that might be used have specific and limiting technical connotations However though a single name has not yet been found we can say that the space plasma phenomena considered in this volume may all be characterized as fluctuating nonequilibrium or turbulent and that the processes which play important roles in determining the plasma behavior are stochastic quasilinear nonlinear inhomogeneous or nonlocal

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Manufacturing Engineering Transactions Society of Manufacturing Engineers, 1983

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Evaluation of Location Reference Systems Carl E. Kurt, 1993 An evaluation of the major location reference systems used by Kansas Department of Transportation KDOT was made to determine the type of data and feasibility for use with Intergraph GIS software The following location reference systems were found in the databases Main Route and or subroute names Route Name Milepost Latitude Longitude and On Highway At Road or On Highway From Location In addition to these location

reference systems other location reference systems were found in the literature Two different standards for latitude longitude coordinates were also found

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World Studies: Eastern Hemisphere Heidi Hayes Jacobs,Michal L. LeVasseur,2004-08 Foundations of geography World of geography Earth s physical geography Earth s human geography Cultures of the world Interacting with our environment Europe and Russia Europe and Russia physical geography Europe and Russia shaped by history Cultures of Europe and Russia Western Europe Eastern Europe and Russia Africa Africa physical geography Africa shaped by tis history Cultures of Africa North Africa West Africa Exploring East Africa Central and Southern Africa Asia and the Pacific East Asia physical geography South Southwest and Central Asia physical geography Southeast Asia and the Pacific region physical geography East Asia cultures and history South and Southeast Asia cultures and history Southeast Asia and the Pacific region cultures and history East Asia South Southwest and Central Asia Southeast Asia and the Pacific region Glossary

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Mathematical Reviews ,2005 *Beginning and Intermediate Algebra* James Streeter,Donald Hutchison,Streeter James,Hutchison Donald,Barry Bergman,Stefan Baratto,2004

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