

## Project – Art with Conics

Conic sections are used in a wide variety of fields and are present in the world around you. You are going to use conic sections to create a work of art. This will require you to identify the presence of curves in familiar images and connect them to mathematical forms. The picture below is a very simple example. Your picture should incorporate greater complexity and creativity.

Directions:

Create a Desmos account if you do not already have one. On graph paper, sketch a rough design that incorporates various curves and shapes related to conic sections. Then create your design in Desmos using mathematical equations. If you wish to replicate an image, you may choose to paste it in Desmos and then create the curves to trace it.

Your work should have at least 15 curves, with at least 2 for each type of conic section. You may include other types of graphs (lines, sine, ...)

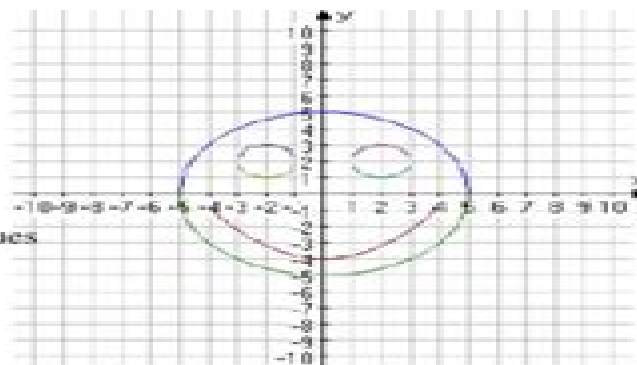
Share your final product with Ms. Jackson at [msjacksoncghs@gmail.com](mailto:msjacksoncghs@gmail.com). It is recommended that you submit it by 11/22/19, but you may turn it in as late as 11/24/19 with no penalty.

The picture below is a very simple example. Your picture should incorporate greater complexity and creativity.

1. A circle that makes up the outline of the face. The equation of this circle is  $x^2 + y^2 = 5^2$ .

2. The right eye is a circle with center at (2,2) and radius 1. The equation is  $(x-2)^2 + (y-2)^2 = 1$ . The left eye .....

3. The smile is a parabola. The vertex is (0,-4) and the point (2,-3) is on the parabola. By solving for  $a$  (show work), you get the equation  $y = 3/16 x^2 - 4$ . Graph the smile only for  $x$  values between -4 and 4. To restrict the domain in Desmos, include  $\{-4 \leq x \leq 4\}$  after the equation.



This project will count as a quiz grade. You may search the internet for ideas, but you will receive a 0 if you plagiarize. This includes making minor tweaks to an existing work. See Ms Jackson's website for past works by Cedar Grove students (...More → Student Work )

# Conics Project Examples With Equations

**Robert John Tainsh Bell**



## Conics Project Examples With Equations:

An Elementary Treatise on Pure Geometry with Numerous Examples John Wellesley Russell, 1905      **The Doctrine of Germs, Or, The Integration of Certain Partial Differential Equations which Occur in Mathematical Physics** Samuel Earnshaw, 1881      **An Elementary Treatise on Coordinate Geometry of Three Dimensions** Robert John Tainsh Bell, 1910      Reaching Boys, Teaching Boys Michael Reichert, Richard Hawley, 2010-06-29 Based on an extensive worldwide study this book reveals what gets boys excited about learning Reaching Boys Teaching Boys challenges the widely held cultural impression that boys are stubbornly resistant to schooling while providing concrete examples of pedagogy and instructional style that have been proven effective in a variety of school settings This book offers more than 100 detailed examples of lessons that succeed with male students grouped thematically Such themes include Gaming Motor Activities Open Inquiry Competition Interactive Technology and Performance Role Play Woven throughout the book is moving testimony from boys that both validates the success of the lessons and adds a human dimension to their impact The author s presents more than 100 specific activities for all content areas that have proven successful with male students Draws on an in depth worldwide study to reveal what lessons and strategies most engage boys in the classroom Has been described as the missing link that our schools need for the better education of boys      **A Treatise on the Dynamics of a System of Rigid Bodies. With Numerous Examples: The advanced part** Edward John Routh, 1884      **The Advanced Part of A Treatise on the Dynamics of a System of Rigid Bodies** Edward John Routh, 1884      **Irm Intermediate Algebra** Kaseberg, 2003-10      On Einstein's Path Alex Harvey, 2012-12-06 Friends and colleagues of Engelbert Schucking came together in a symposium on the 12th and 13th of December 1996 at New York University to celebrate and express to him their respect admiration and affection They came to celebrate his scientific and scholarly achievements the inspirational quality of his teaching his graciousness as a colleague his thoughtful guidance of graduate students his service to the department the university and the physics community at large and not least his open courteous easy accessibility to anyone needing his counselor expertise The announcement was A SYMPOSIUM In Honor of PROF ENGELBERT SCHUCKING Physics Department New York University On December 12th and 13th there will be a Symposium to honor Professor Engel bert Schucking for his service to the University the Department and the Physics Community The December 12th session will run from 1 to 6 PM followed by a reception The following morning the session will run from 9 AM to 1 PM Atten dance including the reception is open to all friends and colleagues of Professor Schucking and anyone interested in General Relativity The talks will be presented in Room 121 4 Washington Place the reception will be in the office of Dean Furmankis 5 Washington Square North from 6 15 to 8 00 PM Thursday Afternoon Greetings Alice S      **An Introduction to Plane Geometry** Henry Frederick Baker, 1971      **The Encyclopædia Britannica: A-ZYM** Day Otis Kellogg, Thomas Spencer Baynes, 1903      **The Encyclopaedia Britannica, Volume XIX** ,1890      Mathematics Teaching ,1962      **The**

**Encyclopædia Britannica** ,1893      **The Encyclopædia Britannica** Thomas Spencer Baynes,1885      *The Encyclopaedia Britannica* Thomas Spencer Baynes,1878      **The Encyclopaedia Britannica** ,1896      **Algebra with Trigonometry for College Students** Charles P. McKeague,1993 Pat McKeague s passion and dedication to teaching mathematics and his ongoing participation in mathematical organizations provides the most current and reliable textbook for both instructors and students Pat McKeague s main goal is to write a textbook that is user friendly Students are able to develop a thorough understanding of the concepts essential to their success in mathematics because of his attention to detail exceptional writing style and organization of mathematical concepts The Sixth Edition of Algebra with Trigonometry for College Students is another extraordinary textbook with exceptional clarity and accessibility      **The Encyclopedia Britannica** ,1899      The Philosophers and Mathematics Hassan Tahiri,2018-08-14 This book explores the unique relationship between two different approaches to understand the nature of knowledge reality and existence It collects essays that examine the distinctive historical relationship between mathematics and philosophy Readers learn what key philosophers throughout the ages thought about mathematics This includes both thinkers who recognized the relevance of mathematics to their own work as well as those who chose to completely ignore its many achievements The essays offer insight into the role that mathematics played in the formation of each included philosopher s doctrine as well as the impact its remarkable expansion had on the philosophical systems each erected Conversely the authors also highlight the ways that philosophy contributed to the growth and transformation of mathematics Throughout significant historical examples help to illustrate these points in a vivid way Mathematics has often been a favored interlocutor of philosophers and a major source of inspiration This book is the outcome of an international conference held in honor of Roshdi Rashed a renowned historian of mathematics It provides researchers students and interested readers with remarkable insights into the history of an important relationship throughout the ages

*Routledge Handbook on the Sciences in Islamicate Societies* Sonja Brentjes,2023-01-24 The Routledge Handbook on the Sciences in Islamicate Societies provides a comprehensive survey on science in the Islamic world from the 8th to the 19th century Across six sections a group of subject experts discuss and analyze scientific practices across a wide range of Islamicate societies The authors take into consideration several contexts in which science was practiced ranging from intellectual traditions and persuasions to institutions such as courts schools hospitals and observatories to the materiality of scientific practices including the arts and craftsmanship Chapters also devote attention to scientific practices of minority communities in Muslim majority societies and Muslim minority groups in societies outside the Islamicate world thereby allowing readers to better understand the opportunities and constraints of scientific practices under varying local conditions Through replacing Islam with Islamicate societies the book opens up ways to explain similarities and differences between diverse societies ruled by Muslim dynasties This handbook will be an invaluable resource for both established academics and students looking for an introduction to the field It will appeal to those involved in the study of the history of science the

history of ideas intellectual history social or cultural history Islamic studies Middle East and African studies including history and studies of Muslim communities in Europe and South and East Asia

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