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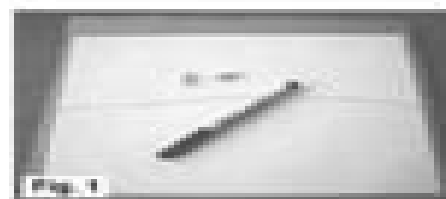
Lab: Eccentricity of an Ellipse

The ellipse is the geometric shape of most orbits. In this lab, you'll construct 3 ellipses, examine and measure them to determine some of the fundamental properties of ellipses.

Follow the directions below, making sure you draw and measure carefully along the way. When you have completed the construction and measurement of your ellipses, carefully and thoughtfully answer the questions posted at the end of this lab.

1. Gather up the materials you need to complete this lab (See Fig. 1):

- A piece of cardboard
- 1 sheet of white paper
- 2 push pins
- A string loop (tie 25 cm of string into a loop)
- Ruler
- A pen or sharp pencil



2. Fold your paper in $\frac{1}{2}$ lengthwise (hot-dog fold). Label the fold "major axis"



3. Place the sheet of paper on the cardboard, and draw 2 dots in the center of the page 3 cm apart. Place the 2 push pins into the dots as shown in Fig. 2.



4. Place your loop of string around the 2 push pins, and, keeping the string tight, use the string as a guide to carefully draw an ellipse around the push pins. (See Fig 3.) Be patient - you may have to try it a few times before you get the hang of it!



Ellipses And Eccentricity Lab Answers

McGraw-Hill Staff



Ellipses And Eccentricity Lab Answers:

Exploring Physical Science in the Laboratory John T. Salinas ,2019-02-01 This full color manual is designed to satisfy the content needs of either a one or two semester introduction to physical science course populated by nonmajors It provides students with the opportunity to explore and make sense of the world around them to develop their skills and knowledge and to learn to think like scientists The material is written in an accessible way providing clearly written procedures a wide variety of exercises from which instructors can choose and real world examples that keep the content engaging Exploring Physical Science in the Laboratory guides students through the mysteries of the observable world and helps them develop a clear understanding of challenging concepts Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science ,2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction **Merrill Earth Science** Ralph M. Feather,Susan Leach Snyder,Dale T. Hesser,1995 **Glencoe Science** McGraw-Hill Staff,2001-08 Instructor's Guide to Accompany College Mathematics Through Applications Peterson,Wagner,1999-02 **Astronomy** Alton Biggs,2002

Ellipses Inscribed in, and Circumscribed about, Quadrilaterals Alan Horwitz,2024-05-29 The main focus of this book is disseminating research results regarding the pencil of ellipses inscribing arbitrary convex quadrilaterals In particular the author proves that there is a unique ellipse of maximal area EA and a unique ellipse of minimal eccentricity EI inscribed in Q Similar results are also proven for ellipses passing through the vertices of a convex quadrilateral along with some comparisons with inscribed ellipses Special results are also given for parallelograms Researchers in geometry and applied mathematics will find this unique book of interest Software developers image processors along with geometers mathematicians and statisticians will be very interested in this treatment of the subject of inscribing and circumscribing ellipses with the comprehensive treatment here Most of the results in this book were proven by the author in several papers listed in the references at the end This book gathers results in a unified treatment of the topics while also shortening and simplifying many of the proofs This book also contains a separate section on algorithms for finding ellipses of maximal area or of minimal eccentricity inscribed in or circumscribed about a given quadrilateral and for certain other topics treated in this book Anyone who has taken calculus and linear algebra and who has a basic understanding of ellipses will find it accessible

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