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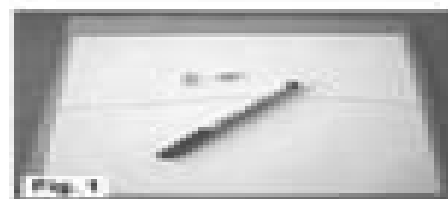
Lab: Eccentricity of an Ellipse

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

Yicheng Fang



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