

THE PARABOLA

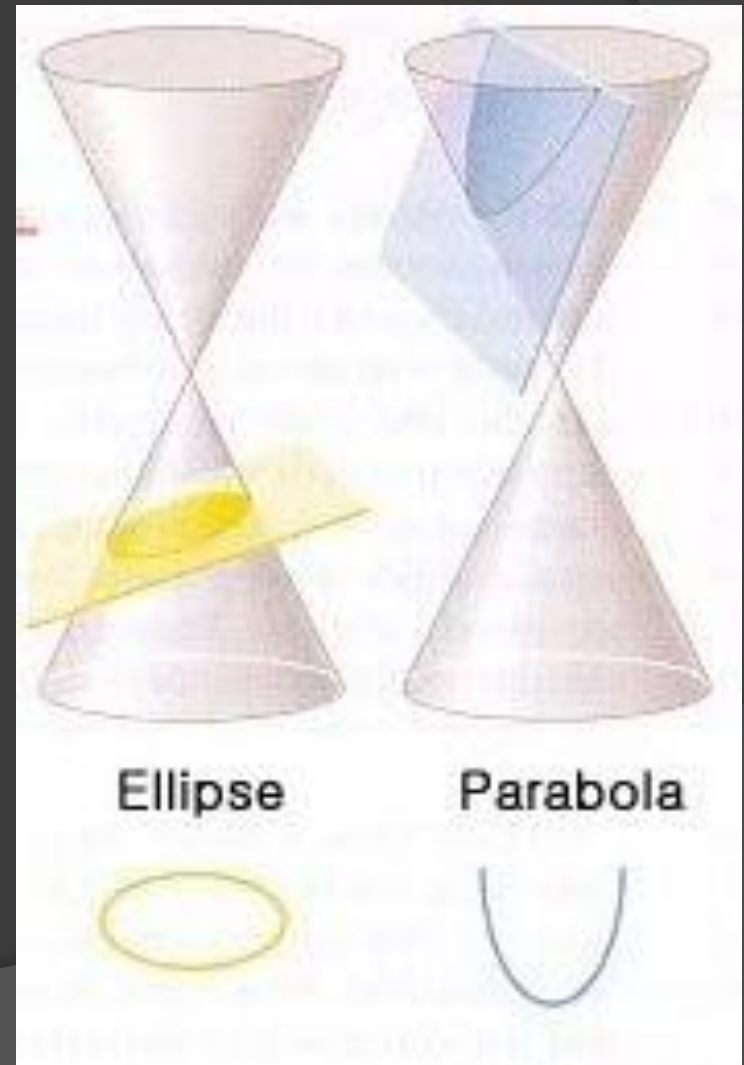
The Parabola

- Whenever a ball is thrown into the air, it travels along a path in the shape of a curve called a parabola



What does a Parabola have in common with an Ellipse?

- It is the shape created when a cone is cut
- A parabola is the result of cutting a cone at an angle to its axis equal to that of its generators



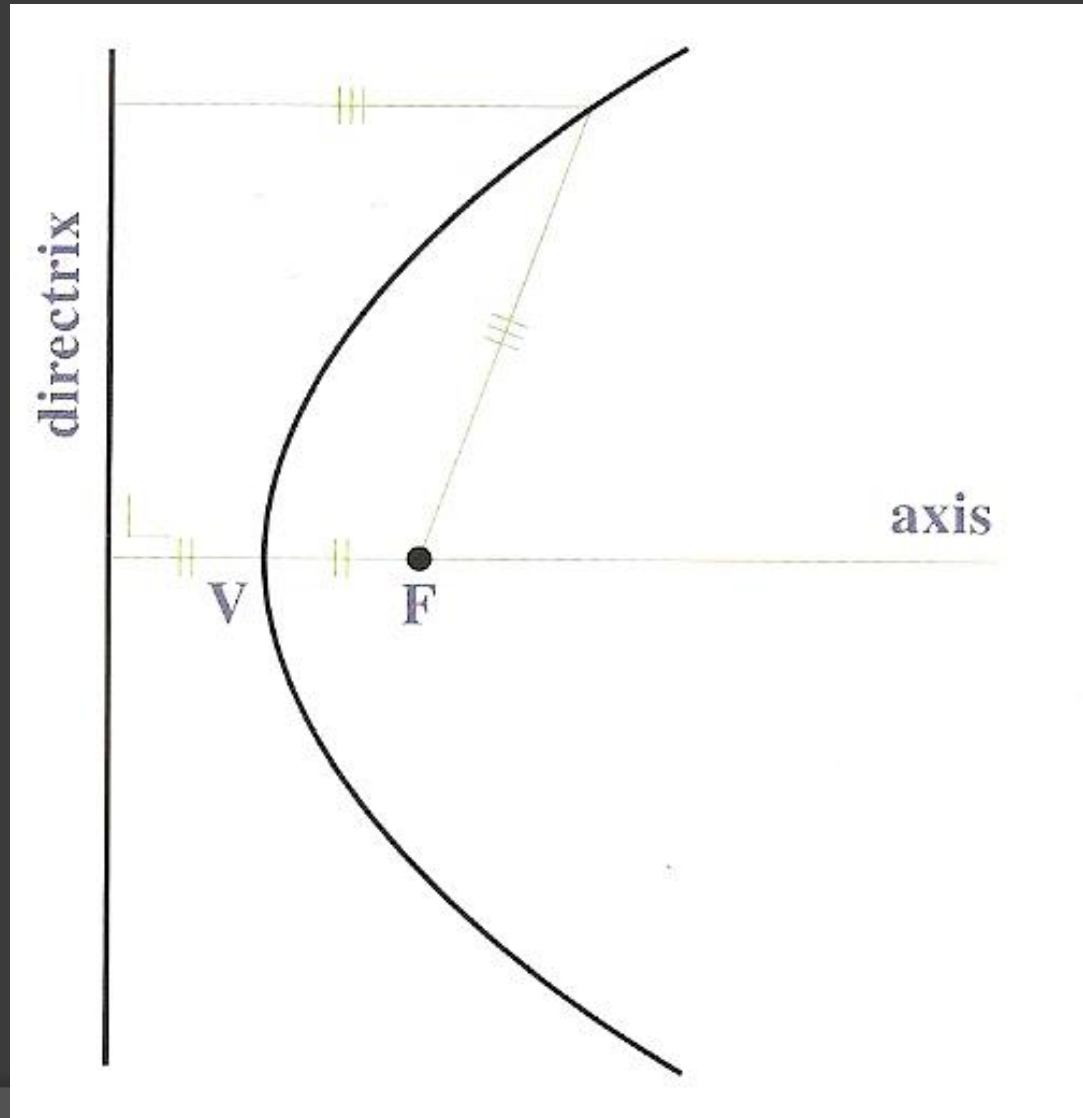
When and Where are Parabolas Used?



Who uses Parabolas?

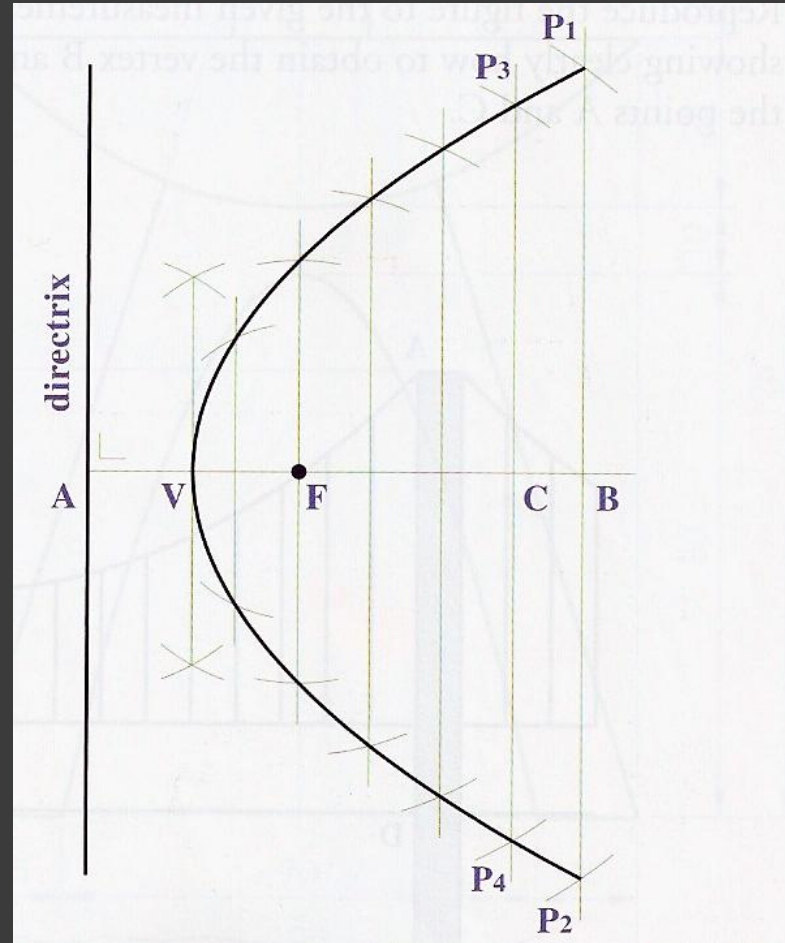
- ⦿ Engineers
- ⦿ Designers
- ⦿ Architects
- ⦿ Television Companies
- ⦿ NASA
- ⦿ Etc.

Parts of a Parabola



How do we draw a Parabola?

Locus Method



Distance from Point to Directrix = Distance for Point to Focus

How do we Draw a Parabola?

Inscribing a Parabola in a Rectangle

