Precalculus Lesson 10.3: The Ellipse Mrs. Snow, Instructor

I will: I will be able to graph an ellipse with the center at the origin and solve real world problems involving ellipses

We will: Analyze ellipses with center at the origin and solve real world problems involving ellipses

THE ELLIPSE BECAME INCREASINGLY ECCENTRIC.



Ellipse: the collection, or locus, of all points in the plane, the sum of whose distances from two fixed points, called the foci, is constant.



Finding an equation of an Ellipse



Analyze the Equation of an Ellipse





The whispering gallery in the Museum of Science and Industry in Chicago is 47.3 feet long. The distance from the center of the room to the foci is 20.3 feet. Find an equation that describes the shape of the room. How high is the room at its center?