

Conic Flyer

Exploration Questions

1. When is the equation of an ellipse the same as an equation for a circle?
2. How is the equation for a vertical parabola similar to a horizontal parabola? How are they different?
3. How is the equation for a vertical hyperbola similar to a horizontal hyperbola? How are they different?
4. Describe in general terms how each parameter of the equation changes the graph for a:
 - Vertical Hyperbola
 - Horizontal Hyperbola
 - Vertical Parabola
 - Horizontal Parabola
 - Circle
 - Ellipse