Directions: Create all the ellipses below and document your measurements in the associated tables.

1. Create an ellipse that has a major axis at least 2 feet long.

|  |  |  |
| --- | --- | --- |
| Component | Coordinate Pt(s)/Measurement | Formula Associated |
| Vertices |  |  |
| Co-Vertices |  |  |
| Foci |  |  |
| Length of Major Axis |  |  |
| Length of Minor Axis |  |  |

1. Create an ellipse that has a major axis that is less than 2 feet long.

|  |  |  |
| --- | --- | --- |
| Component | Coordinate Pt(s)/Measurement | Formula Associated |
| Vertices |  |  |
| Co-Vertices |  |  |
| Foci |  |  |
| Length of Major Axis |  |  |
| Length of Minor Axis |  |  |

1. Create an ellipse whose major axis is the same length as its minor axis.

|  |  |  |
| --- | --- | --- |
| Component | Coordinate Pt(s)/Measurement | Formula Associated |
| Vertices |  |  |
| Co-Vertices |  |  |
| Foci |  |  |

Conclusion Questions (use complete sentences and proper grammar):

1. What were some challenges in creating these ellipses?
2. In your third ellipse the major and minor axis where the same length. How would you describe this ellipse?
3. Where have you seen ellipses in real life?