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| **OBJECTIVES**  |

* **Review for the Trig Post Test.**
* **Begin our study of the Conic Sections.**



The **three basic conic sections** are the ellipse (a circle is a special type of ellipse), the hyperbola and the parabola. First, we will discuss the ellipse.

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|  **OBJECTIVES \_\_\_\_\_ ELLIPSES** (Pages 574 – 584) |
| Define *ellipse* as a conic section. |
| Given the standard equation of an ellipse with center (h, k), sketch the ellipse. |
| Locate the key points of an ellipse: center, vertices, co-vertices, major axis, minor axis, foci. |
| Understand that a circle is a special type of ellipse. |
| Find the eccentricity, ***e = c/a***, of an ellipse. Note that 0 ≤ e ˂ 1. Also, when e = 0, the ellipse is a circle. |
| Find the equation of an ellipse based upon given information. |
| Model an actual situation with an ellipse.  |

**TUESDAY (4.22.25)**

**Discuss the previously assigned work:**

* Ellipses on pages 574 – 584.
* Page 582, *Exercises*, #1, 3. We will graph these ellipses, identifying the center, vertices, co-vertices, major axis, minor axis, and foci, eccentricity.
* **Class Work/Homework**: Page 582, Exercises, # 2, 4, 5 – 10, identifying the center, vertices, co-vertices, major axis, minor axis, and foci, eccentricity.

**THURSDAY (4.24.25)**

* **Discuss the previously assigned work:** Page 582, Exercises, # 2, 4, 5 – 10, identifying the center, vertices, co-vertices, major axis, minor axis, and foci, eccentricity.
* **Class Work/Homework:** Pages 582, 583, Exercises, **# 15, 16** (identifying the center, vertices, co-vertices, major axis, minor axis, and foci, eccentricity).

**TAKE HOME QUIZ:** Graph an ellipse, identifying the center, vertices, co-vertices, major axis, minor axis, and foci, eccentricity. **DUE FRIDAY, 4.25.25.**

**FRIDAY (4.25.25)**

**Discuss the previously assigned work:** Pages 582, 583, Exercises, **#15, 16** (identifying the center, vertices, co-vertices, major axis, minor axis, and foci, eccentricity).

**TURN IN YOUR TAKE HOME QUIZ:** Graph an ellipse, identifying the center, vertices, co-vertices, major axis, minor axis, and foci, eccentricity.

**Class Work/Homework:** Page 583, #21 – 35, odds.