

ALGEBRA II JOURNAL
Conic Sections

1. Conic sections are given this title because _____.
2. (a) A parabola is the set of points _____
_____.
- (b) A hyperbola is the set of points _____
_____.
- (c) A ellipse is the set of points _____
_____.
- (d) An circle is the set of points _____
_____.
3. (a) The measure of how flat or round is an ellipse is called its _____.
- (b) The eccentricities of each of the four conic sections are:
Circle _____ Parabola _____
Ellipse _____ Hyperbola _____
4. The purpose of an asymptote is _____
_____.
5. When solving systems of second degree equations, you should use substitution if _____
_____, but you should use elimination if _____
_____.
6. Draw a picture showing the reflective properties of a circle, parabola, ellipse, and hyperbola.
7. Draw 4 cones. Show how each cone must be sliced in order to form each of the conic sections.

8. List **two** real world applications for **each** conic section.

Circle—

Ellipse—

Parabola—

Hyperbola—

FORMULAS

9. List the rules for identifying the four conic sections given an equation.

Parabola—

Hyperbola—

Circle—

Ellipse—

10. After your semester exam, place your card in your portfolio following this journal.