

Algebra 2
Unit: Conic Sections
Section: Introduction to Conic Sections

Bucket Game: Standard Equations of Conic Sections

Directions: Tell whether each equation is a Circle, Parabola, Hyperbola or Ellipse.

1. x^2 divided by 4 minus y^2 divided by 16 equals 1
2. x^2 plus y^2 equals 36
3. y^2 divided by 36 plus x^2 divided by 25 equals 1
4. y^2 plus x^2 equals 50
5. x equals negative 1 divided by 12 times y^2
6. x^2 divided by 12 plus y^2 divided by 100 equals 1
7. y equals 1 divided by 20 times x^2
8. y^2 divided by 13 minus x^2 divided by 2 equals 1

Answers:

1. hyperbola
2. circle
3. ellipse
4. circle
5. parabola
6. ellipse
7. parabola
8. hyperbola