

## Evaluation of Conic Sections and Their Applications **100%**

Circle the correct multiple-choice answer, and indicate the description refers to a circle, ellipse, hyperbola, or a parabola.

☐ 1. The set of all points in a plane that are the same distance from a fixed point (center) and a line (directrix).

- ☐ A. Circle ☐ B. Ellipse ☐ C. Hyperbola ☐ D. Parabola

☐ 2. The set of all points in a plane that are the same distance from a given point (center).

- ☐ A. Circle ☐ B. Ellipse ☐ C. Hyperbola ☐ D. Parabola

☐ 3. A conic section with only two lines of symmetry and only one vertex.

- ☐ A. Circle ☐ B. Ellipse ☐ C. Hyperbola ☐ D. Parabola

☐ 4. The shape formed when a cone is sliced at an angle and intersected to form a curve.

- ☐ A. Circle ☐ B. Ellipse ☐ C. Hyperbola ☐ D. Parabola



☐ 5. The curve located at a distance  $h_1$  in a plane that is parallel to the edge of the cone.

- ☐ A. Circle ☐ B. Ellipse ☐ C. Hyperbola ☐ D. Parabola



☐ 6. An equation for a conic in general form is  $x^2 + 4y^2 + 8x - 8y - 20 = 0$ .

Without graphing or completing the square, identify the type of conic section.

- ☐ A. Circle ☐ B. Ellipse ☐ C. Hyperbola ☐ D. Parabola

☐ 7. An equation for a conic in general form is  $x^2 - y^2 + 8x - 8y - 20 = 0$ .

Without graphing or completing the square, identify the type of conic section.

# Evaluation Of Conic Sections And Their Applications Pi Key

**R Barnett**



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