Geometry - Conic Sections
Grade 12 | Difficulty: Hard

1. Find the equation of a parabola given its focus and directrix.

2. Determine the eccentricity of a hyperbola.

3. Write the equation of an ellipse in standard form.

4. Prove that a circle is a special case of an ellipse.

5. Find the asymptotes of a hyperbola given its equation.