

## ■ Chapter: Inequalities in Geometry

➤ *In geometry, an inequality in geometry refers to a mathematical statement that expresses a relationship between the size or magnitude of geometric shapes, such as polygons, circles, and lines, using words like "greater than," "less than," "greater than or equal to," or "less than or equal to" to describe the relative sizes or distances between these shapes.*

### ■ Geometric Inequalities

Geometric inequalities are a class of mathematical statements that describe relationships between geometric shapes and their corresponding dimensions or properties, such as areas, volumes, circumferences, and other measures, which can be expressed using various algebraic and analytical techniques, including quadratic equations, linear programming, and calculus.