A Closer Look at Area of Regular Polygons KEY

A **regular polygon** is a convex polygon in which all sides are congruent and all angles are congruent.

Equilateral triangle
Equiangular triangle

Square

Regular pentagon

Any regular polygon can be divided into overlapping congruent triangular regions. The area of the regular polygon can be found by finding the area of one of the triangular regions and multiplying by the number of sides of the polygon. This method can be rewritten to reduce to the formula.

$$\text{Area of a regular polygon} = \frac{1}{2}aP$$

where P represents the perimeter and a represents the apothem.

The **apothem** is a segment that extends from the center of a regular polygon perpendicularly to a side of the regular polygon. The **apothem** is also the perpendicular distance from the center of the figure to a side. The **apothem** bisects a side of the regular polygon. In Figure 1 below, a is the length of the apothem.

The **radius** is a segment that extends from the center of the regular polygon to a vertex of the polygon. The **radius** is also the distance from the center of the polygon to a vertex of the polygon. The **radius** bisects an interior angle of the regular polygon. In Figure 1 below, r is the length of the radius.

Attributes of special right triangles, 45°-45°-90°, and 30°-60°-90° and the **trigonometric ratios** can be used to solve problems involving regular polygons.

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Brendan G. Carr

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Pearson Math Geometry Book 1 Ashworth HS Pearson Education Canada,2011-12 **Geometry Readiness** Rory Yakubov,2021-04-18 This is a Geometry workbook designed for students who are going to be entering Geometry and just finished Algebra 1 It is a perfect summer review practice packet As an Algebra 1 and Geometry teacher for many years I know what my students coming in should know and what basic skills they may be struggling with In order to be able to properly teach the Geometry content students should be proficient in the following topics 20 pages with over 164 problems covering the topics The Number Properties Calculating Slope Graphing in Slope Intercept Form Determining Parallel and Perpendicular Lines Solving Multi Step Equations Solving Inequalities Substitution to Solve Systems of Equations Factoring Trinomials Simplifying Radicals Operations with Radicals Classifying Segments Rays and Lines Number of Edges and Vertices Angle Measurements Types of Triangles Types of Quadrilaterals Parts of a Circle Area Formulas of Basic Shapes Volume Formulas of Basic Figures Basic Transformations Congruent or Similar Each topic has its own page with enough space to do each problem A complete answer key is included *A First Course in Geometry* Edward T Walsh,2014-08-04 Suitable for college courses this introductory text covers the language of mathematics geometric sets of points separation and angles triangles parallel lines similarity polygons and area circles and space and coordinate geometry 1974 edition

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