

A Closer Look at Areas of Regular Polygons **10.5.1**

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



Equilateral triangle
 Equilateral triangle



Square



Regular pentagon

Any regular polygon can be decomposed into congruent triangles. The area of the regular polygon can be found by finding the area of one of the congruent triangles and multiplying by the number of sides of the polygon. This method can be expressed algebraically by the formula:

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

where P represents the perimeter and n represents the number of sides.

The **apothem** is a segment that connects 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 **radius** extends from the center of the regular polygon, in Figure 1 below, to the length of the apothem.

The **radius** is a segment that connects the center of the regular polygon to a vertex of the polygon. The **side** is also the distance from the center of the polygon to a vertex of the polygon. The **interior angle** is an angle of the regular polygon, in Figure 1 below, and the length of that side.



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

Geometry Hs Mathematics Unit 08 Lesson 01

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rotational kinematics in the section on uniform circular motion we discussed motion in a circle at constant speed and therefore constant angular velocity however there are times when angular velocity is not constant rotational motion can speed up

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evaluate problem solving strategies for rotational kinematics just by using our intuition we can begin to see how rotational quantities like θ , ω and α are related to one another for example if a motorcycle wheel has a large angular acceleration for a fairly long time it ends up spinning rapidly and rotates through many revolutions

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