

A Closer Look at Area of Regular Polygons **NOT**

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



Equilateral triangle
Equilateral triangle



Square



Regular pentagon

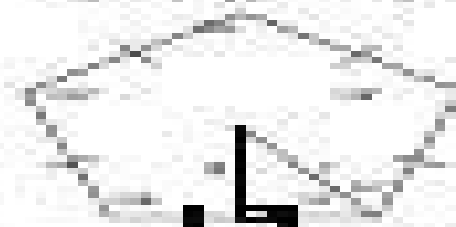
Any regular polygon can be divided into non-overlapping congruent triangles. The area of the regular polygon can be found by finding the area of one of the triangular regions and multiplying by the number of sides of the polygon. This method can be written as follows in the formula.

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

where P represents the perimeter and n represents the number

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 **apothem** divides a side of the regular polygon. In Figure 1 below, a is the length of the apothem.

The **radius** is a segment that connects 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** divides an interior angle of the regular polygon. In Figure 1 below, r is the length of the radius.



Triangles of special right triangles, $30^\circ-60^\circ-90^\circ$ and $45^\circ-45^\circ-90^\circ$ and the trigonometric ratios can be used to solve problems involving regular polygons.

Geometry Hs Mathematics Unit 7 Lesson Key

L Cohen



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