Notes for Lesson 11-4: Areas of Regular Polygons

Before beginning this section we must remind ourselves what the definition of a regular polygon is.

A regular polygon is... a polygon where all sides torgirs are a

We must also remember the formula for finding the sum of the interior angles of a polygon.

The formula is...



Look at the following regular polygons. You are given information about some pieces of each and the area of the entire polygon. Use formulas that you already know (hint: try the area of a triangle) and try to find a system for finding the area of each regular polygon.



Label the apothem, center, radius, and side of the following regular polygon.



Find the perimeter and area of the following.

1) A square with apothem 6.



2) A pentagon with perimeter of 75.



3) A regular hexagon with radius 4.

