

Name _____

Homework # _____

Sum of the Interior Angles of a Polygon

For each polygon draw the polygon and show the number of triangles that can be drawn from a vertex. Find the sum of the interior angles.

1. quadrilateral	2. hexagon	3. decagon
4. pentagon	5. octagon	6. dodecagon

7. A _____ polygon is a polygon that is both equilateral and equiangular.

8. The formula for finding the measure of one of the angles in a regular polygon is

For each regular polygon find the measure of one of the interior angles.

9. triangle	10. hexagon
11. decagon	12. quadrilateral

13. How many sides does a regular polygon have if the measure of each of interior angle is 108° ?