Lessons 5.1 & 5.2 Assignment

Name:

1) Use the Polygon Sum Conjecture to complete the table.

/			5		-							
Number of Sides of polygon	3	4	5	6	7	8	9	10	11	20	55	100
Sum of measures of angles												

2) What is the measure of each angle of an equiangular polygon? Complete the table.

Number of Sides of	3	4	5	6	7	8	9	10	12	16	100
equiangular polygon											
Measure of each angle of											
equiangular polygon											

- 3) What is the sum of the measures of the exterior angles of a decagon?
- 4) What is the measure of an exterior angle of an equiangular pentagon?
- 5) What is the measure of an exterior angle of an equiangular hexagon?
- 6) How many sides does a regular polygon have if each exterior angle measures 24°?

Calculate the measure of each lettered angle.



- 7) How many sides does a polygon have if the sum of its interior angle measures is 7380°?
- 8) How many sides does an equiangular polygon have if each interior angle measures 156°?
- 9) How many sides does a polygon have if the sum of its angle measures is 2700°?





