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8.1 Angle Measures in a Polygon

Date: $\qquad$



Ex 1: Find the measure of each interior angle of the regular polygon listed below.
a. pentagon
b. nonagon
c.


Ex 2: You are given the measure of each exterior angle of a regular $n$-gon. Find the value of $n$.
a. $60^{\circ}$
b. $45^{\circ}$
c. $30^{\circ}$

Ex 3: You are given the measure of each interior angle of a regular $n$-gon. Find the value of $n$.
a. $90^{\circ}$
b. $108^{\circ}$
c. $144^{\circ}$

Ex 4: If you were designing a sign for a new building, would it be possible to make a sign that is a regular polygon with each angle having a measure of:
a. $160^{\circ}$
b. $115^{\circ}$

