10.4-10.5 Angles in a Polygon
 Name ______

 Pre-AP Geometry
 Period ______
 Date ______

 ELABORATE
 1. Each of the following is a regular polygon. Find the number of sides.
 Intervalue

a. interior angle of 162° b. exterior angle of 40°

2. Find the value of the variables in the following polygons.



3. The exterior angles of a pentagon are in a ratio of 2:2:3:4:4. Find the largest interior angle.

4. The measure of each interior angle of a regular polygon is 8 times that of an exterior angle. How many sides are in the polygon?

5. ABCDE is a regular polygon. \overrightarrow{EA} and \overrightarrow{CB} are extended to intersect at P. Find the measure of $\angle APB$ and $\angle PAB$.

