Determine the unknown interior angle measure of a convex octagon in which the measures of the seven other angles have a sum of 940°.

$$n =$$

Sum =
$$\left(-2 \right) 180^{\circ} = \left(-2$$

$$+x=$$

$$x =$$

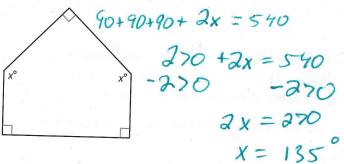
The unknown angle measure is _

Reflect

How might you use the Polygon Angle Sum Theorem to write a rule for determining the measure of each interior angle of any regular convex polygon with n sides?

Your Turn

6. Determine the unknown angle measures in this pentagon.



- Determine the measure of the fourth interior angle of a quadrilateral if you know the other three measures are 89°, 80°, and 104°.
 - 273 + x = 360x = 87°

Determine the measure of the fourth interior agle of a quadrilateral if you know the other aree measures are 89°, 80°, and 104°.

By
$$+80+104+X=360$$
 $+80+104+X=360$
 $+80+104$

Determine the unknown angle measures in a