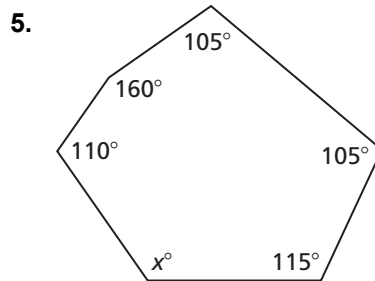
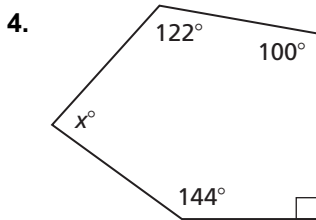


# 7.1

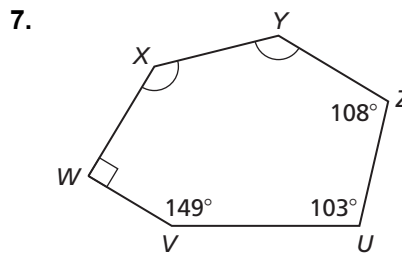
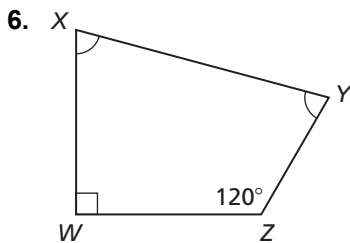
## Practice A

- Find the sum of the measures of the interior angles of a heptagon.
- The sum of the measures of the interior angles of a convex polygon is  $3060^\circ$ . Classify the polygon by the number of sides.
- Find the measure of each interior and each exterior angle of a regular 30-gon.

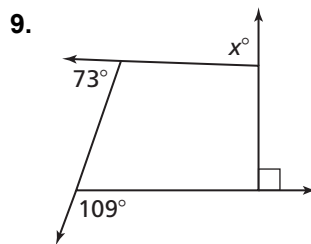
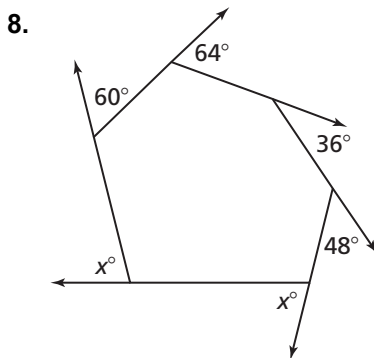
In Exercises 4 and 5, find the value of  $x$ .



In Exercises 6 and 7, find the measures of  $\angle X$  and  $\angle Y$ .



In Exercises 8 and 9, find the value of  $x$ .



- A pentagon has three angles that are congruent and two other angles that are supplementary to each other. Find the measure of each of the three congruent angles in the pentagon.
- You are designing an amusement park ride with cars that will spin in a circle around a center axis, and the cars are located at the vertices of a regular polygon. The sum of the measures of the angles' vertices is  $6120^\circ$ . If each car holds a maximum of four people, what is the maximum number of people who can be on the ride at one time?