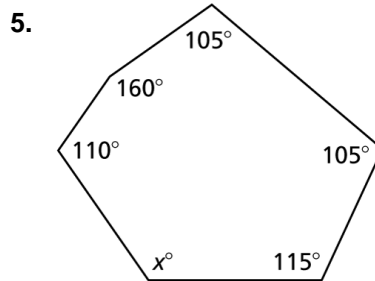
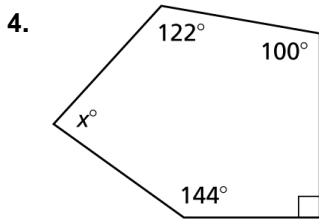


7.1

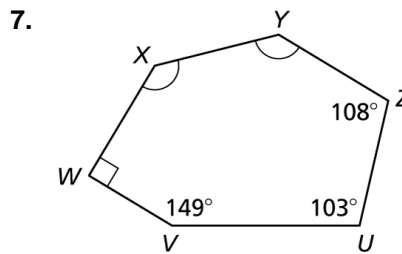
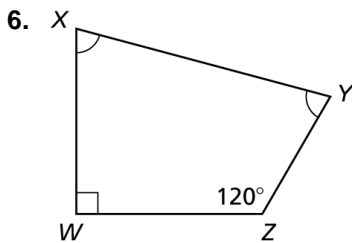
Practice A

- 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° . Classify the polygon by the number of sides.
- Find the measure of each interior and exterior angle of a regular 30-gon.

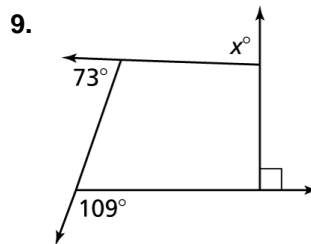
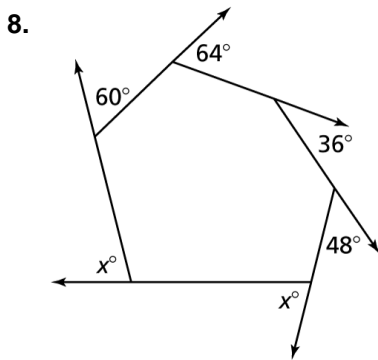
In Exercises 4 and 5, find the value of x .



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



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

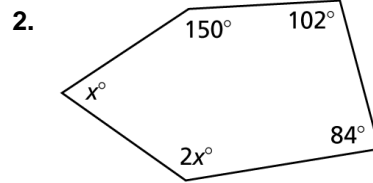
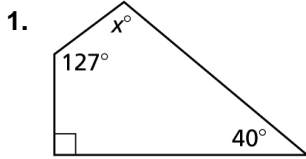


- A pentagon has three angles that are congruent and two other angles that are supplementary to each other. Find the measure of each of the three congruent angles in the pentagon.
- You are designing an amusement park ride with cars that will spin in a circle around a center axis, and the cars are located at the vertices of a regular polygon. The sum of the measures of the angles' vertices is 6120° . 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?

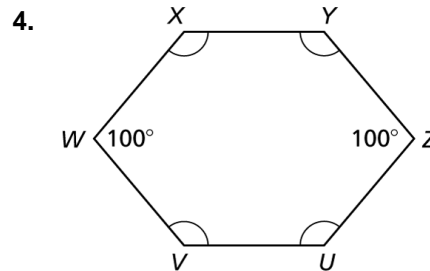
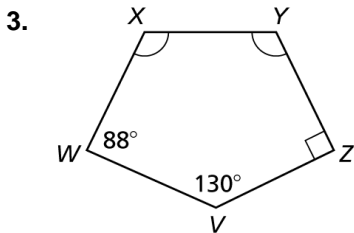
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Practice B

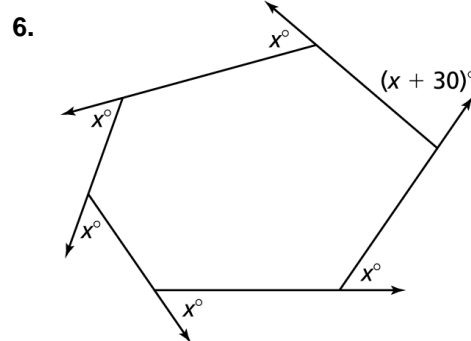
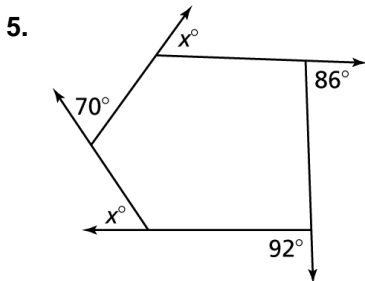
In Exercises 1 and 2, find the value of x .



In Exercises 3 and 4, find the measures of $\angle X$ and $\angle Y$.



In Exercises 5 and 6, find the value of x .



7. Find the measure of each interior angle and each exterior angle of a regular 24-gon.
8. Each exterior angle of a regular polygon has a measure of 18° . Find the number of sides of the regular polygon.
9. A polygon has two pairs of complementary interior angles and three sets of supplementary interior angles. The sum of the remaining interior angles is 1440° . How many sides does the polygon have? Explain.

10. The figure shows interior angle measures of the kite.

- a. Find the sum of the measures of the interior angles of the convex polygon.
- b. Find the value of x .

