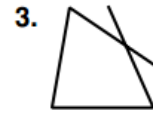


LESSON
6-1 Practice B
Properties and Attributes of Polygons

Tell whether each figure is a polygon. If it is a polygon, name it by the number of its sides.

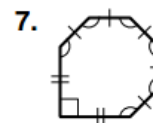
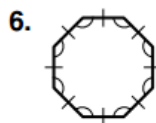






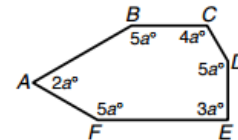
4. For a polygon to be regular, it must be both equiangular and equilateral.
 Name the only type of polygon that must be regular if it is equiangular. _____

Tell whether each polygon is regular or irregular. Then tell whether it is concave or convex.

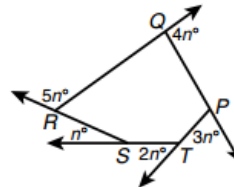


8. Find the sum of the interior angle measures of a 14-gon. _____

9. Find the measure of each interior angle of hexagon $ABCDEF$.



10. Find the value of n in pentagon $PQRST$.



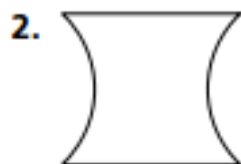
Before electric or steam power, a common way to power machinery was with a waterwheel. The simplest form of waterwheel is a series of paddles on a frame partially submerged in a stream. The current in the stream pushes the paddles forward and turns the frame. The power of the turning frame can then be used to drive machinery to saw wood or grind grain. The waterwheel shown has a frame in the shape of a regular octagon.



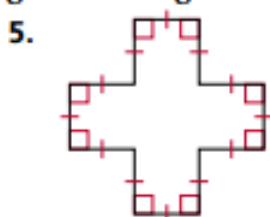
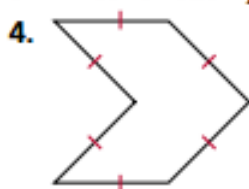
11. Find the measure of one interior angle of the waterwheel. _____

12. Find the measure of one exterior angle of the waterwheel. _____

Tell whether each figure is a polygon. If it is a polygon, name it by the number of its sides.



Tell whether each polygon is regular or irregular. Tell whether it is concave or convex.



7. Find the measure of each interior angle of pentagon $ABCDE$.

8. Find the sum of the interior angle measures of a convex heptagon.

9. Find the measure of each interior angle of a regular 15-gon.

10. Find the value of x in polygon $FGHJKL$.

11. Find the measure of each exterior angle of a regular dodecagon.

