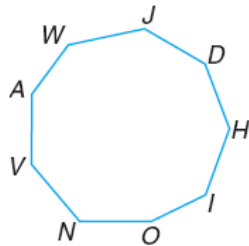


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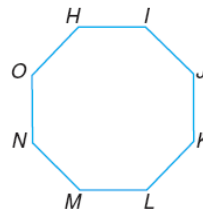
Polygons

Exercise 1: Find the sum of the measures of the interior angles in each figure.

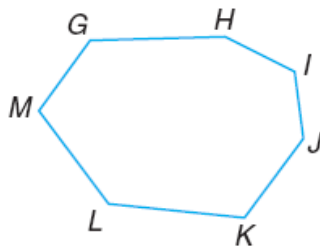
1)



2)



3)



Exercise 2: The sum of the measures of five exterior angles of a hexagon is 284. What is the measure of the sixth angle?

Exercise 3: The measures of seven interior angles of an octagon are 142, 140, 125, 156, 133, 160, and 134. Find the measure of the eighth interior angle.

Exercise 4: The measures of the exterior angles of a quadrilateral are x , $2x$, $3x$, and $4x$. Find x and the measure of each exterior angle of the quadrilateral.

Exercise 5: The measure of an exterior angle of a regular octagon is $x + 10$. Find x and the measure of each exterior angle of the octagon.

Exercise 6: The sum of the measures of the interior angles of a convex polygon is 1800. Find the number of sides of the polygon.