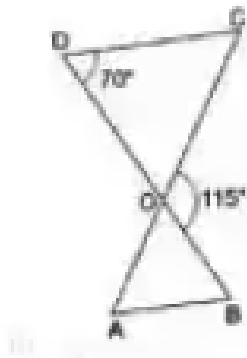


Questions:

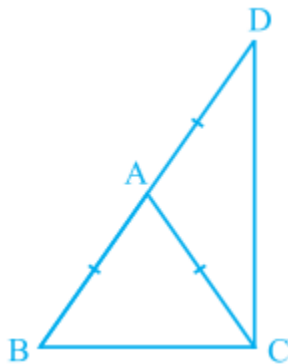
Q1. Find the sum of all interior angles of a
(i) heptagon (ii) polygon of 12 sides

Q2. What would be each exterior angle and each interior angle of a regular decagon?

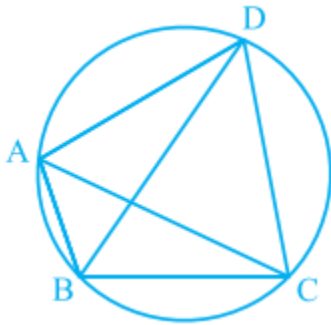
Q3. In the given figure, $\triangle ODC \sim \triangle OBA$, $\angle BOC = 115^\circ$ and $\angle CDO = 70^\circ$. Find $\angle OAB$. (HINT - Angles of similar triangles are equal)



Q4. In the given figure, $\triangle ABC$ is an isosceles triangle with $AB=AC$. Side BA is produced to D such that $AD=AB$. Find $\angle BCD$



Q5. In the following figure, ABCD is cyclic Quadrilateral. Given that $\angle DBC = 55^\circ$ and $\angle BAC = 45^\circ$, find $\angle BCD$.



Q6. Find the number of diagonals in a polygon having 16 sides.

Answers:

Ans1) (i) 900° (ii) 1800°

Ans2) each exterior angle = 36°
each interior angle = 144°

Ans3) 45°

Ans4) 90°

Ans5) 80°

Ans6) 104