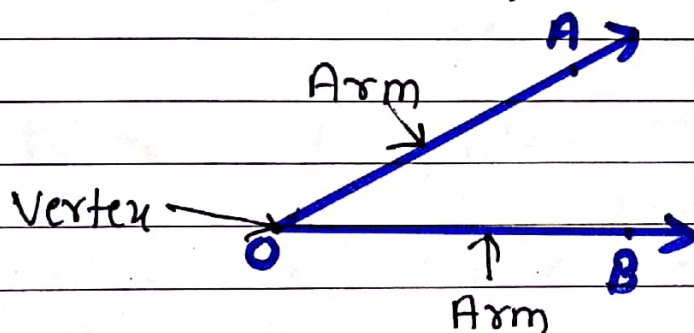
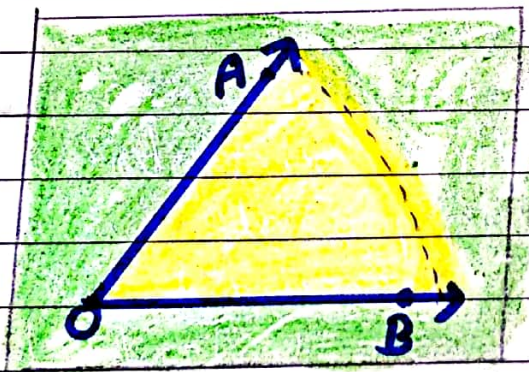


Topic - Angles -

An angle is formed by two different rays starting from the same initial point. The two rays forming the angle are called the arms or sides of the angle. The common end point is the vertex of the angle.



The Interior And Exterior Of An Angle →



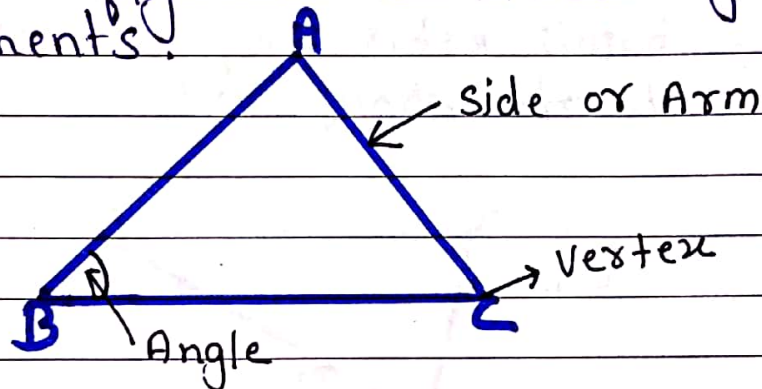
Interior → The region shown by yellow colour is the interior of $\angle AOB$.

Exterior → The region shown by green colour is the exterior of the $\angle AOB$.



Angular Region \rightarrow The interior of an angle together with its boundary is called the angular region.

Triangles \rightarrow A triangle is a closed plane figure bounded by three line segments.



Parts of a triangle \rightarrow The three sides and the three angles together are called the six parts of a triangle.

*In a triangle

- (i) Three line segments \overline{AB} , \overline{BC} and \overline{CA}
- (ii) Three vertices A, B and C
- (iii) Three Angles $\angle ABC$, $\angle BCA$, $\angle CAB$.

Note \rightarrow 1) Write all the notes in your copy.
 11) Do Assignment 5.3 and 5.4 in your copy.

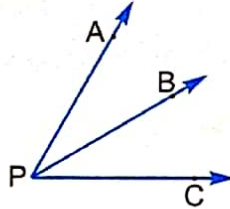
ASSIGNMENT 5.3

1. Multiple Choice Questions (MCQ) Choose the correct option.

- (i) A figure formed by two rays with a common initial point, is
 (a) a line segment. (b) a ray. (c) a line. (d) an angle.
- (ii) An angle QPR is written as $\angle P$. It can also be named as
 (a) $\angle PQR$ (b) $\angle PRQ$ (c) $\angle RPQ$ (d) $\angle RQP$

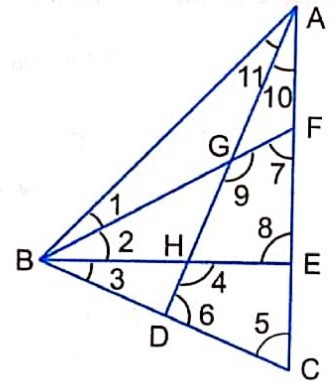
2. In the given figure :

- (i) name the three rays.
 (ii) name the three angles.



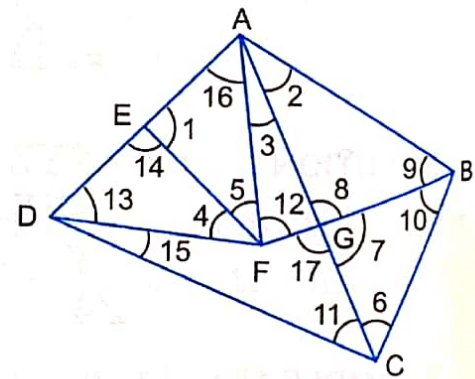
3. In the adjoining figure, name the angles indicated by using three letters for each :

- (i) $\angle 9$ (ii) $\angle 5$ (iii) $\angle 11$
 (iv) $\angle 3$ (v) $\angle 4$ (vi) $\angle 7$
 (vii) $\angle 1$ (viii) $\angle 10$

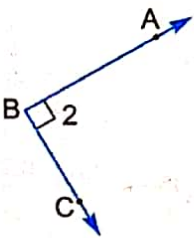
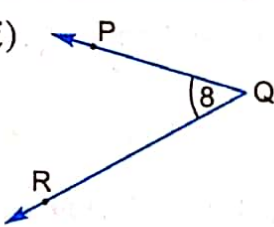
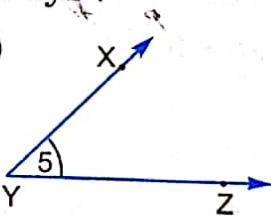
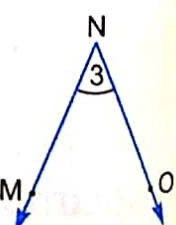


4. In the adjoining figure, name the angles indicated :

- (i) $\angle 16$ (ii) $\angle 4$ (iii) $\angle 12$
 (iv) $\angle 10$ (v) $\angle 1$ (vi) $\angle 11$
 (vii) $\angle 3$ (viii) $\angle 15$ (ix) $\angle 7$
 (x) $\angle 2$

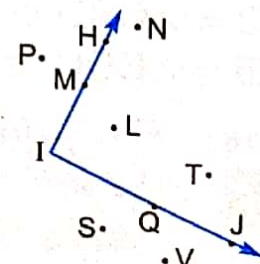


5. Name the following angles in three different ways :

- (i)  (ii)  (iii)  (iv) 

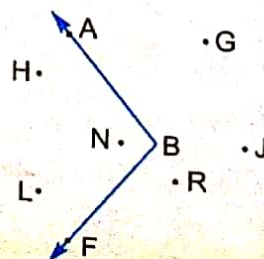
6. From the adjoining figure, list the points which are

- (i) in the exterior of $\angle HIJ$.
 (ii) in the interior of $\angle HIJ$.
 (iii) on $\angle HIJ$.



7. In the adjoining figure, list the points which are

- (i) in the interior of $\angle B$.
 (ii) in the exterior of $\angle B$.
 (iii) lying on $\angle B$.

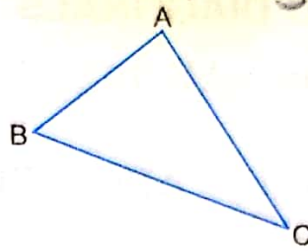


3

ASSIGNMENT - 5.4

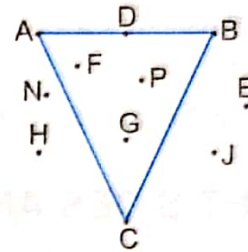
2. In the given triangle, name :

- (i) side opposite to $\angle B$.
- (ii) angle opposite to side BC.
- (iii) side opposite to vertex A.
- (iv) vertex opposite to side AB.



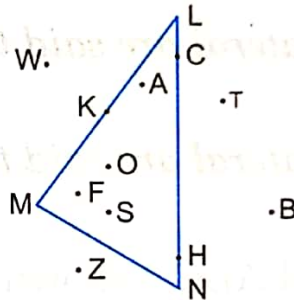
3. In the adjoining figure, name :

- (i) points which lie in the interior of ΔABC .
- (ii) points which lie in the exterior of ΔABC .
- (iii) points which lie on ΔABC .



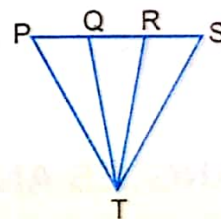
4. In the figure, name the points which are :

- (i) on ΔLMN .
- (ii) in the exterior of ΔLMN .
- (iii) in the interior of ΔLMN .



5. In the adjoining figure, name :

- (i) all the triangles.
- (ii) all the angles.
- (iii) all the line segments.
- (iv) triangles which have $\angle S$ as common.



(4)