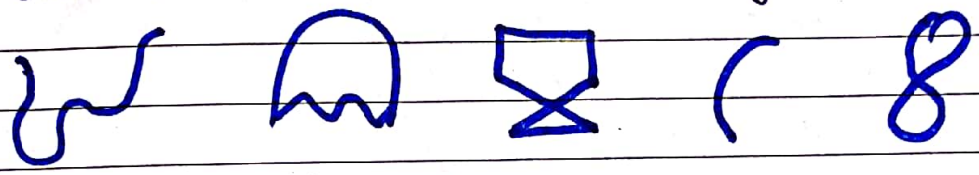
B. B. S. S. Sec School
Class - 6th Sub - maths
Ch - 5: Basic Geometrical Ideas

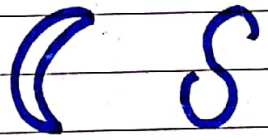
Note- Write all notes in your note book.

Topic - Curves

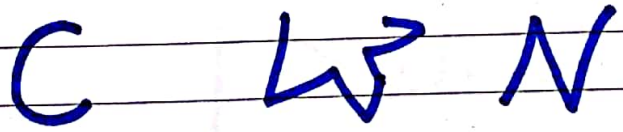
Curves → The pictures that are the result of doodling are called curves.
Curves means 'not straight'.



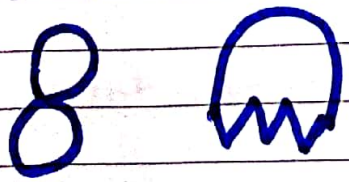
Simple curve → If a curve does not cross itself, it is called simple curve.



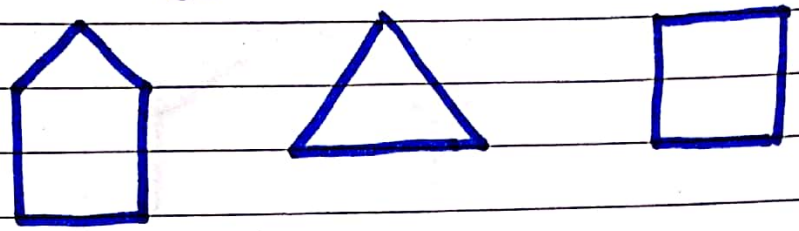
Open curves → The curves that do not begin and end at the same point are called open curves.



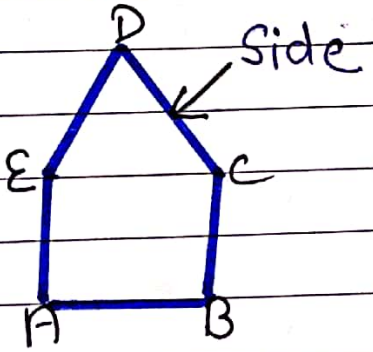
Closed curves → The curves which begin and end at the same point are called closed curves.



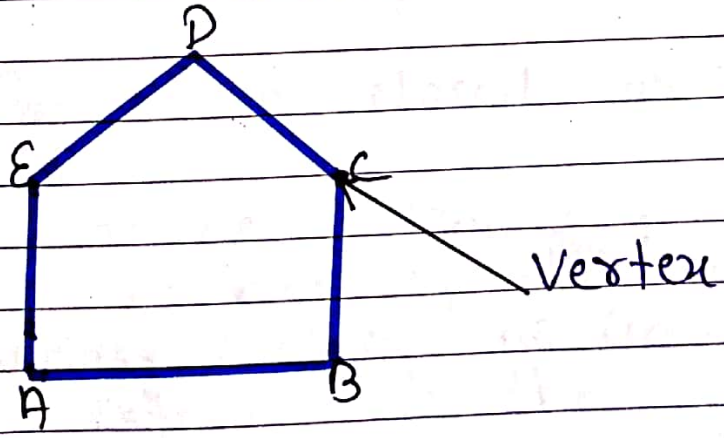
Polygons → The simple closed curves made up entirely of line segments are called polygons.



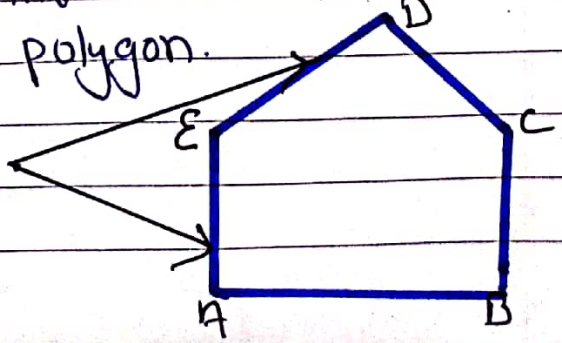
Sides → The line segments forming a polygon are called its sides



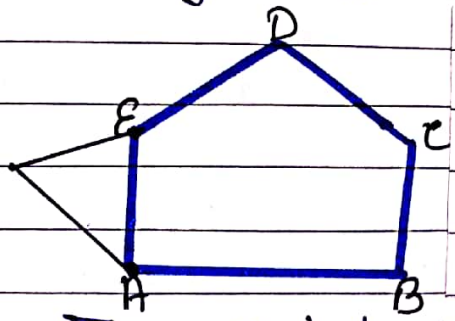
Vertices → The meeting point of a pair of sides called a vertex.



Adjacent Sides → Any two sides with a common end point are called the adjacent sides of the polygon.

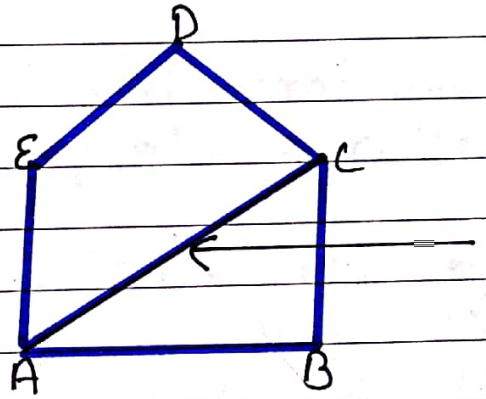


Adjacent vertices → The end points of the same side of a polygon are called adjacent vertices.



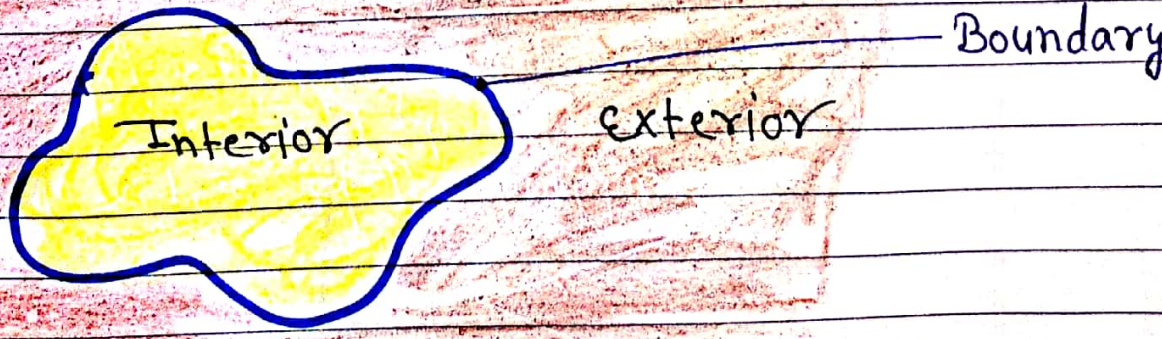
Adjacent vertices.

Diagonals :- The joint of the pairs of vertices which are not adjacent are called diagonals of the polygon.



Position in a closed curve → In a closed curve there are three disjointed parts:

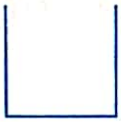
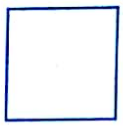
(i) The interior of the curve
(ii) boundary (on) of the curve
(iii) The exterior of the curve

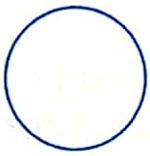


Note → Do Assignment 5.2 in your copy.

ASSIGNMENT – 5.2

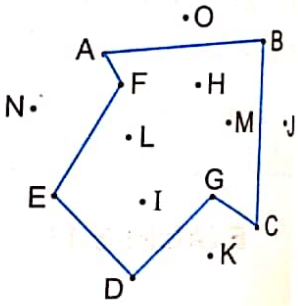
2. Identify the closed figures :

(*i*)  (*ii*)  (*iii*)  (*iv*)  (*v*) 

(*vi*)  (*vii*)  (*viii*)  (*ix*)  (*x*) 

(*xi*)  (*xii*)  (*xiii*) 

3. In the adjoining Fig., name the points which are inside, outside and on the figure.

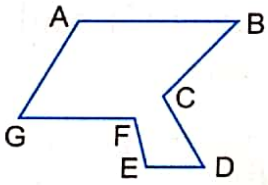


4. In a ΔPQR, mark :

(*i*) the points A, B, C on the exterior of ΔPQR.
(*ii*) the points X, Y, Z in the interior of ΔPQR.
(*iii*) the points H, I, J on ΔPQR.

5. In the following figure, answer the following :

(*i*) Is it a curve ?
(*ii*) Is it an open/closed figure ?



6. Considering the given figure, answer the following :

(*i*) Is it a polygon ?
Why/Why not ?
(*ii*) Is it a closed figure ?