

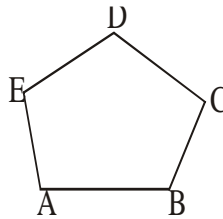
UNDERSTANDING QUADRILATERALS

CONVEX AND CONCAVE POLYGON

Convex and Concave Polygons

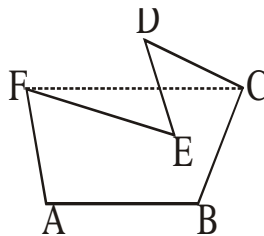
A polygon in which measure of each angle is less than 180° , is called a convex polygon.

In the figure, ABCDE is a convex polygon.



A polygon in which at least one angle is greater than 180° is called a concave polygon.

In the figure, ABCDEF is a concave polygon.



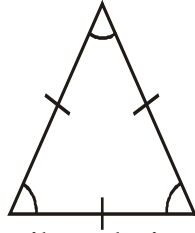
We also observe that in a convex polygon no portions of its diagonals lie in its exterior.

However, in a concave polygon some portion of at least one diagonal lies in its exterior.

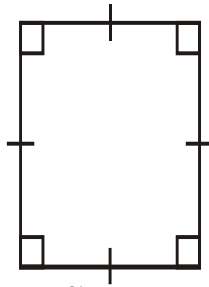
Regular and Irregular Polygons

A polygon having all sides equal and all angles equal is called a regular polygon. For example, a square is a regular polygon, because it has sides of equal measure and angles of equal measure. A rhombus has sides of equal length but its angles are not equal. Hence, it is not a regular polygon.

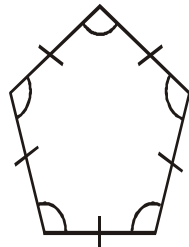
Following polygons are regular :



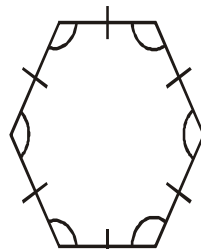
Equilateral triangle



Square



Regular pentagon



Regular hexagon