

It is a simple closed curve made up of three line segments.

Triangles

Classification

On the basis of sides

Equilateral Triangle

A triangle having all three equal sides is called an Equilateral Triangle.

Isosceles Triangle

A triangle having two equal sides is called an Isosceles Triangle.

Scalene Triangle

A triangle having all three unequal sides is called a Scalene Triangle.

On the basis of angles

Acute angled Triangle

If each angle is less than 90° , then the triangle is called an acute angled triangle.

Right angled Triangle

If one angle is a right angle then the triangle is called a right angled triangle.

Obtuse Angled Triangle

If any one angle is greater than 90° , then the triangle is called an obtuse angled triangle.

Properties

Pythagoras Theorem

In a right angled triangle, the square of the hypotenuse is equal to the sum of the square of the other two sides.

An Exterior angle of a triangle is equal to the sum of its interior opposite angles.

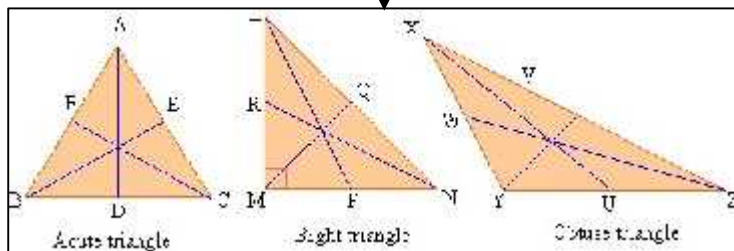
The sum of the lengths of any two sides of a triangle is greater than the third side.

The total measure of the three angles of a triangle is 180° .

ALTITUDE: PERPENDICULAR DISTANCE FROM A VERTEX TO ITS OPPOSITE BASE

MEDIAN: LINE SEGMENT JOINING MID POINT OF ONE SIDE TO OPPOSITE VERTEX

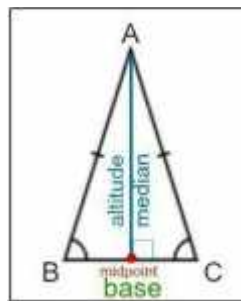
MEDIANS OF DIFFERENT TYPES OF TRIANGLES



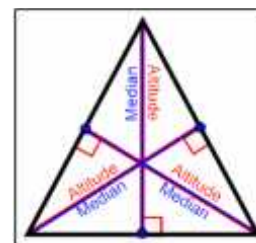
POINT OF INTERSECTION OF MEDIANS

SPECIAL TRIANGLES

ISOSCELES



EQUILATERAL



ALTITUDES OF DIFFERENT TYPES OF TRIANGLES

POINT OF INTERSECTION OF ALTITUDE

