Cosmo School

Class-4

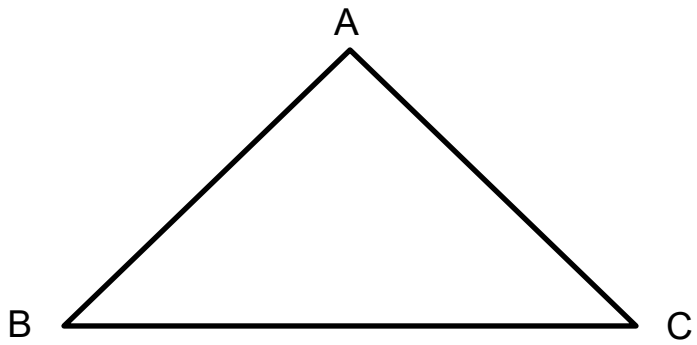
Subject-Mathematics

Chapter - 14 (Triangle)

Date: 20/10/2020

Lecture - 1

Triangle: A triangle is a closed figure with three sides.



Here, ABC is a triangle.

Characteristics:

1) It has three sides.

2) It has three corners / vertices.

3) It has three angles.

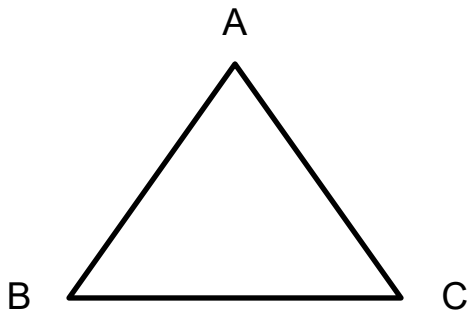
4) All triangles have angles adding up to 180°.

Types of triangles based on sides:

There are three types of triangle based on the sides. They are:

1) Equilateral triangle
2) Isosceles triangle
3) Scalene triangle

1) Equilateral triangle: Equilateral triangle has three equal sides, three equal angles and they are always 60°.

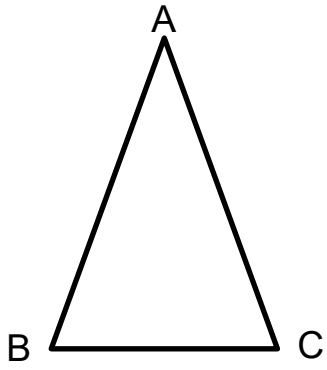


Here, ABC is an equilateral triangle.

Characteristics:

1) Three sides are equal.
2) Three angles are equal.
3) All angles are 60°.

2) Isosceles triangle: Isosceles triangle has two equal sides.

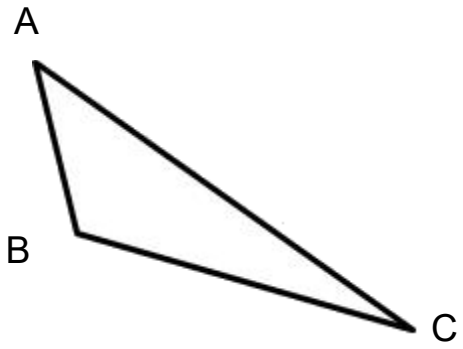


Here, ABC is an isosceles triangle.

Characteristics:

1) Two sides are equal.
2) Two angles are equal.

3) Scalene triangle: Scalene triangle has no equal sides.



Here, ABC is a scalene triangle.

Characteristics:

1) No equal sides.
2) No equal angles.

Exercise

1) Draw an equilateral triangle with sides of 6 cm.
2) Draw an isosceles triangle with sides of 9 cm, 7 cm and 7 cm.
3) Draw a scalene triangle with sides of 3 cm, 5 cm and 8 cm.
4) How many types of triangles are there based on sides? What are they?
5) What is triangle?
6) Write three characteristics of triangle?
7) What is the sum of three angles of any triangle?
8) Which triangle has three 60° angles?
9) Which triangle has two equal sides?
10) A triangle that has no equal sides and no equal angles is known as what?
11) A triangle that has 2 equal sides and 2 equal angles is known as what?
12) A triangle that has 3 equal sides and 3 equal angles is known as what?

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