

Class 7-Mathematics

Instructions for students: The notes provided must be copied to the Maths copy and then do the homework in the same copy.

Chapter 11

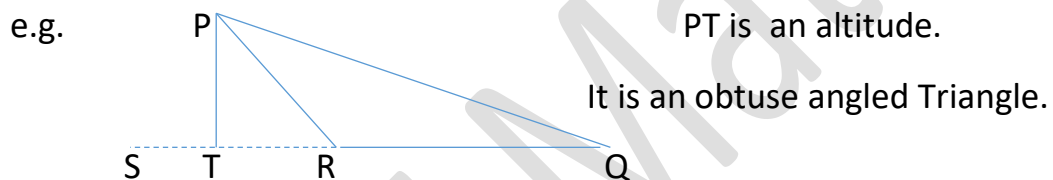
Triangle and its Properties

Median: A line segment joining a vertex of a triangle to the mid-point of the opposite side is called a **median** of the triangle.

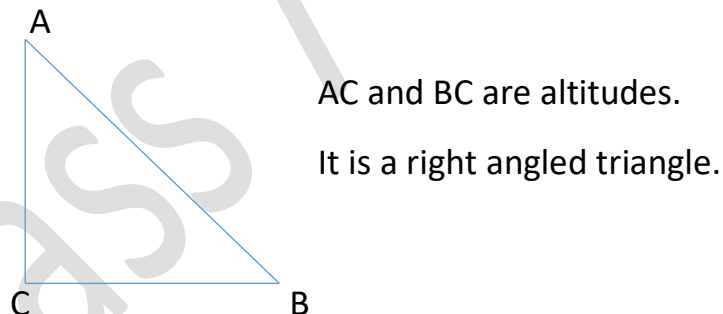
Altitude: The perpendicular line segment from a vertex of a triangle to the opposite side is called an **altitude** of the triangle.

Exercise 11.1

4. No. An altitude may not always lie in the interior.



5. Yes.



Properties of a Triangle

- 1) An exterior angle + Adjacent interior angle = 180°
- 2) An exterior angle of a triangle is equal to sum of its two interior opposite angles.
- 3) Sum of angles of a triangle is 180° .

Question1: Prove that in a triangle an exterior angle of a triangle is equal to sum of its two interior opposite angles.

Question2: Prove that Sum of angles of a triangle is 180° .

(Answer the above questions from video or textbook)

Home work: Solve Exercise 11.1 and 11.2 Questions 1,2 and 3 in Maths copy.