

Chapter 11

Constructions

- **Basic Constructions**
- **Some Constructions of Triangles**

- (1) Use only ruler and compass while drawing constructions.
 - (2) Protractor may be used for drawing non-standard angles.
 - (3) Constructions of a triangle given its base, a base angle and the difference of the other two sides.
 - (4) Constructions of a triangle given its perimeter and its two base angles.
 - (5) A triangle can be constructed if its perimeter and two base angles are given.
 - (6) Geometrical construction is the process of drawing a geometrical figure using only two instruments-an ungraduated ruler and a pair of compasses.
 - (7) Some specific angles like $15^\circ, 30^\circ, 45^\circ, 60^\circ, 75^\circ, 90^\circ$, etc. can be constructed without using protractor.
 - (8) A triangle can be constructed if its base, base angle and the sum of the two sides or the difference of the other two sides are given.
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