

Ch-6 Triangles

1. **Similar Triangles** – Two triangles are said to be similar if –
 - a. their corresponding angles are equal, and
 - b. their corresponding sides are proportional.
2. All congruent triangles are similar but the similar triangles need not be congruent.
3. Two polygons of the same numbers of sides are similar, if –
 - a. their corresponding angles are equal, and
 - b. their corresponding sides are in the same ratio.
4. **Basic Proportionality Theorem (BPT)** – In a triangle, a line drawn parallel to one side, to intersect the other sides in distinct points, divides the two sides in the same ratio.
5. **Converse of BPT** – If a line divides any two sides of a triangle in the same ratio, the line must be parallel to the third side.