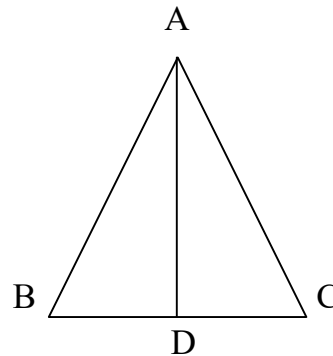
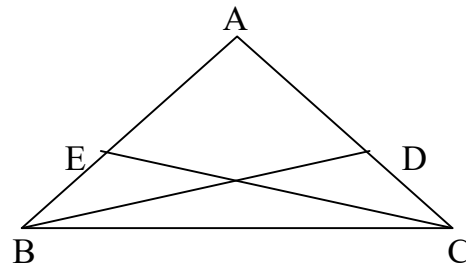


## CONGRUENCY OF TRIANGLES

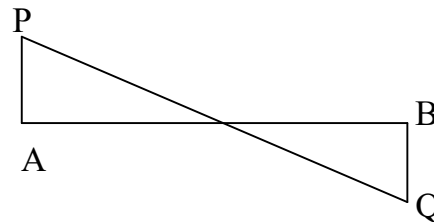
1. ABC is an isosceles triangle with side AB and AC equal. D is the midpoint of BC. Prove that-
  - a. Angle B = Angle C.
  - b. AD is perpendicular to BC.



2. ABC is a triangle in which BD is perpendicular to AC and CE is perpendicular to AB. If  $BD = CE$ , prove that  $BE = CD$ .



3. In the following figure PA and QB are both perpendicular to AB and equal. Prove that PQ bisects AB.



4. ABC is a triangle in which BD is perpendicular to AC and CE is perpendicular to AB. If  $BD = CE$ , prove that  $BE = CD$ .

