1. Construct a   triangle by 3 sides.

6 cm

9 cm

5 cm

M

A   O   B

N
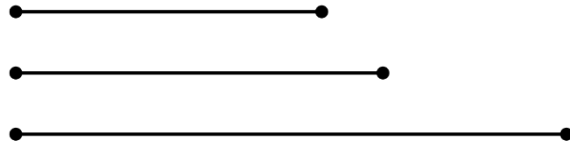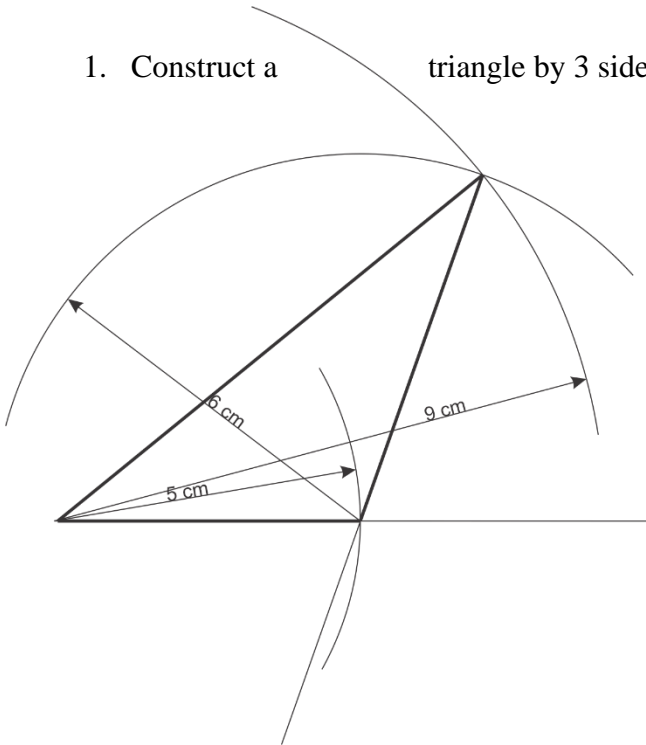
2. Divide a segment into two equal
   parts.
   $[AM] = [MB] = [AN] = [NB]$
   Triangles AMB and ANB are
   isosceles and congruent
   Triangles AMN and MNB are
   isosceles and congruent. Angle
   $\angle AMN = \angle NMB$, so MN is a
   bisector of the angle ∠AMB. In
   isosceles triangle this bisector is a
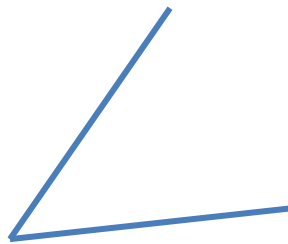   median and altitude. So, point O is
   a midpoint of a segment [AB].
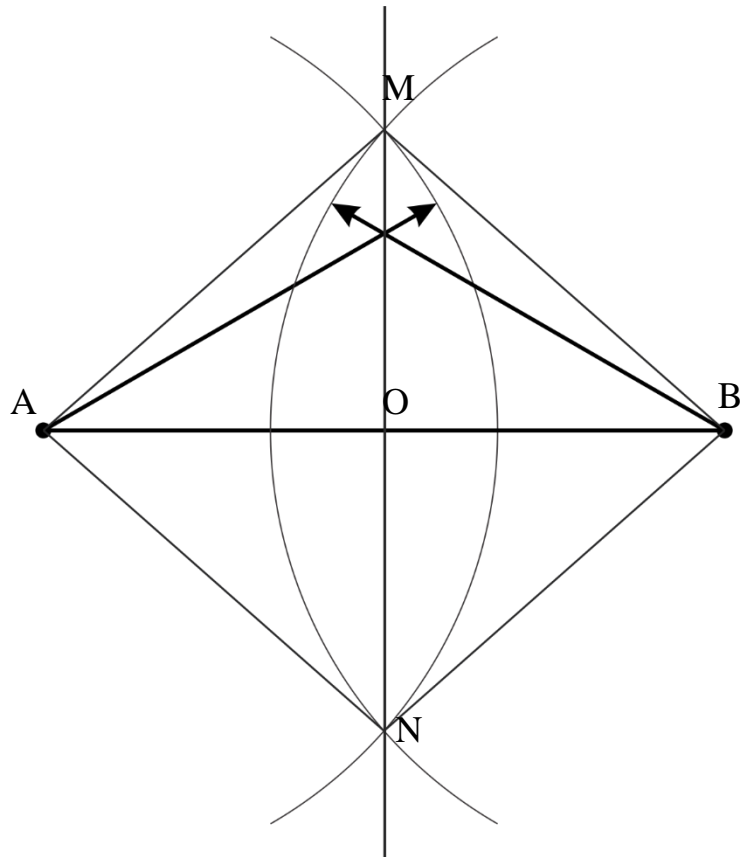
3. Construct a perpendicular to a line, passing through the point on the line.
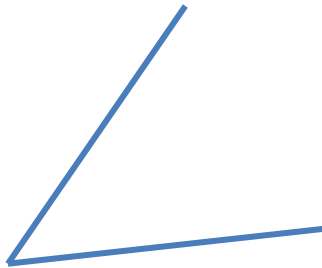
4. Construct a perpendicular to a line, passing through the point outside the line.

5. Construct a bisector of an angle.

6. Construct an angle equal to a given angle.

7. Construct an isosceles triangle by a leg and the altitude, drawn to this leg.