

Triangles Worksheet for Class 9

1. Find the measure of an angle which is 36° more than its complement.
2. Find the measure of an angle which is 25° less than its supplement.
3. Two supplementary angles are in the ratio 3:2. Find the angles.
4. Two lines AB and CD intersect at O. If $\angle AOC = 50^\circ$, find $\angle AOC$, $\angle BOD$ and $\angle BOC$
5. The vertical angle of an isosceles triangle is 100° . Find its base angles.
6. In a $\triangle ABC$, if $AB = AC$ and $\angle B = 65^\circ$, find $\angle C$ and $\angle A$.
7. In an isosceles triangle, if the vertex angle is twice the sum of the base angles, calculate the angles of the triangle
8. Find the measure of each exterior angle of an equilateral triangle.
9. If the base of an isosceles triangle is produced on both sides, prove that the exterior angles so formed are equal to each other.
10. Prove that the median from the vertex of an isosceles triangle is the bisector of the vertical angle.