

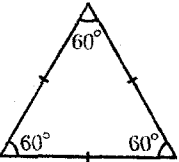
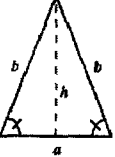
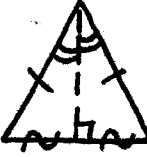
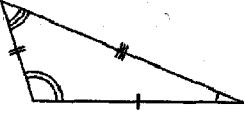
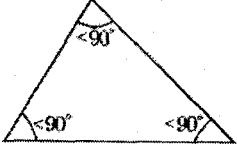
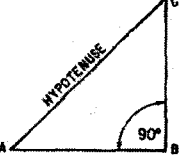
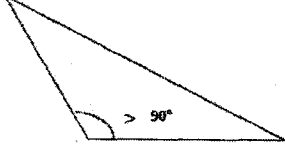
Line Segments in a Triangle

Altitude (height)

Median

Angle Bisector

Review - Types of Triangles

Type	Diagram	Information on sides and angles
Equilateral		All sides are equal (same length). All interior angles have same measurement, each being $\frac{180^\circ}{3} = 60^\circ$
Isosceles		Two sides are equal. The angles across from equal sides are equal in measurement.
Isosceles		In an isosceles triangle, an altitude drawn from the POI of two equal sides is also a median and an angle bisector.
Scalene		All three sides have different lengths. The largest angle is across from the largest side, the smallest angle is across from the smallest side, the mid-size.
Acute-Angle Triangle		All angles (interior ones) are less than 90° in size. The square of one side is less than the sum of the squares of the other two. Why?
Right-angle Triangle (RAT)		The side across from 90° angle is the longest and is called the hypotenuse. The square of the hypotenuse is exactly equal to the sum of the squares of the other two sides.
Obtuse-angle		One of the angles is greater than 90° .