Triangles
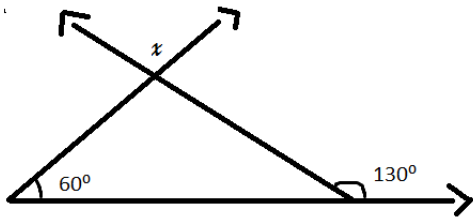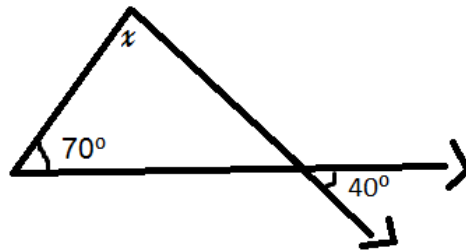
1) Draw a rough sketch of ΔPQR in which PS is an altitude interior of triangle.
2) ΔXYZ is right angled a X, where the three altitudes meet?
3) Two angles of a triangle are 30^0 and 70^0, Find the third angle.
4) In a triangle measures of two angles are equal and third angle is 40^0. What are the measures of the equal angles?
5) Measures of two angles of a triangle are equal and third angle is thrice the measure of one of the equal angles. Find the measures of the angles of the triangle.
6) The angles of a triangle are in the ratio 1:3:5, find the angles of the triangle.
7) Exterior angle of a triangle is 120^0 and one of its opposite interior angle is 70^0, find the measure of the other two angles.
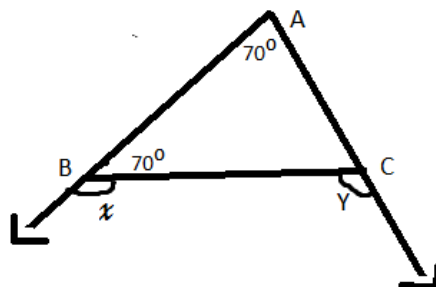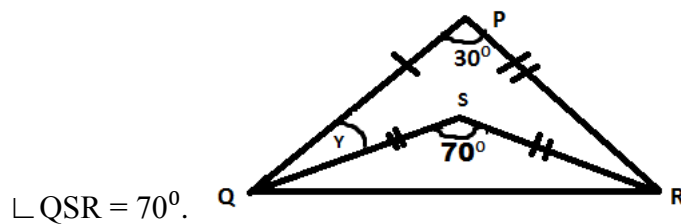8) From the figure find the value of x.

$$(i) \qquad (ii)$$

9) Find the value of Y from the following figure, if PQ = PR and QS = QR ∟QPR = 30^0 ;

∟QSR = 70^0.

10) In figure ∟A = 70^0, ∟CBA = 70^0. Find x and y.

11) In figure $\llcorner P = 30^0$, $\llcorner PEF = 70^0$ and EF ∥ QR. Find $\llcorner Q$ and $\llcorner R$.