

# AL MOATTASSEM INTERNATIONAL SCHOOL - JUBAIL

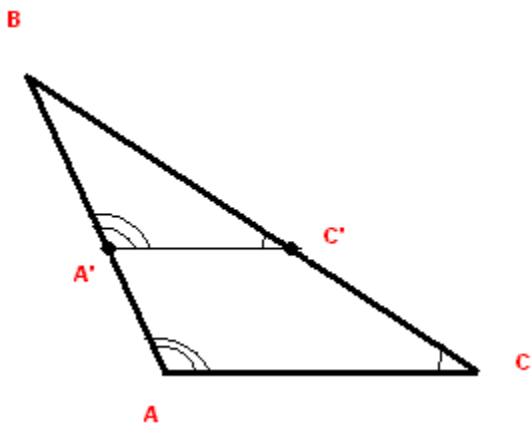
## Level - 8 Mathematics

### Revision worksheet -2

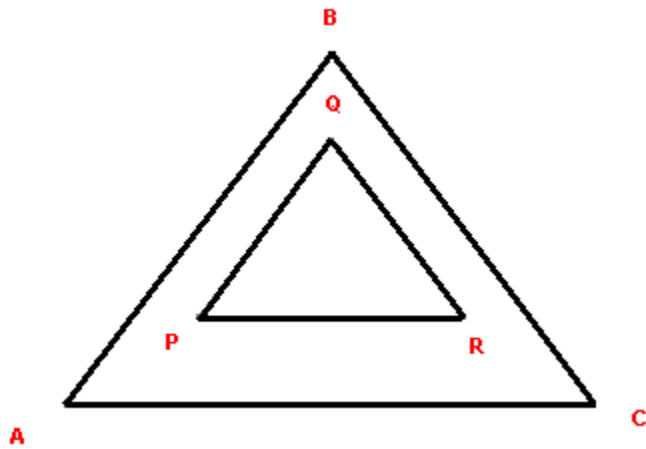
#### Ch -4 Geometry

#### Similarity unsolved

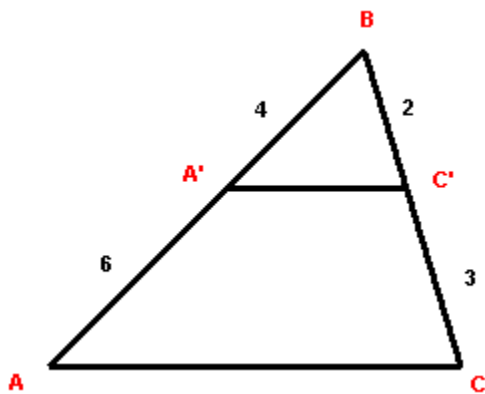
Q1) Let  $ABC$  be a triangle and  $A'C'$  a segment parallel to  $AC$ . What can you say about triangles  $ABC$  and  $A'BC'$ ? Explain your answer.



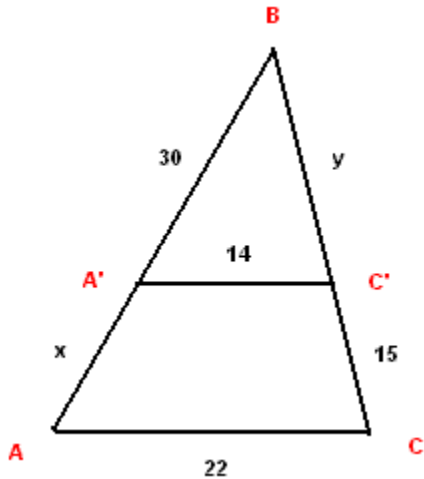
Q2) Let the vertices of triangles ABC and PQR defined by the coordinates: A(-2,0), B(0,4), C(2,0), P(-1,1), Q(0,3), and R(1,1). Show that the two triangles are similar.



Q3) Show that triangles ABC and A'BC', in the figure below, are similar.



Q4) In the triangle ABC shown below, A'C' is parallel to AC. Find the length y of BC' and the length x of A'A.



Q5) The two triangles are similar and the ratio of the lengths of their sides is equal to k:  $AB / A'B' = BC / B'C' = CA / C'A' = k$ . Find the ratio  $BH / B'H'$  of the lengths of the altitudes of the two triangles.

