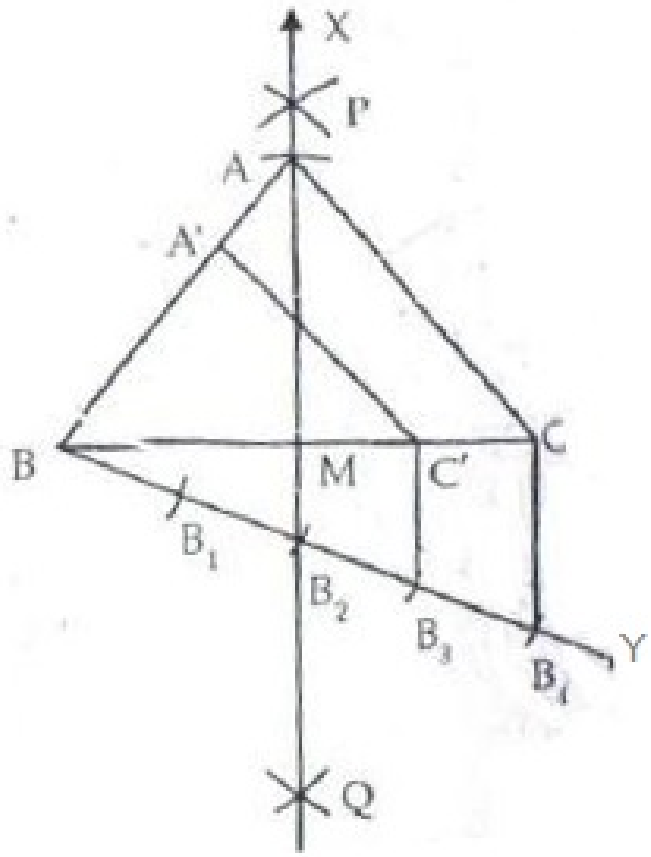
Exercise 13A

Question 11:



Steps of Construction:
Step 1: Draw a line segment BC = 9 cm
Step 2: with centre B and radius more than 1/2 BC, draw arcs on both sides of BC.
Step 3: With centre C and same radius draw other arcs on both sides of BC intersecting previous arcs at P and Q.
Step 4: join PQ and produce it to a point X. PQ meets BC at M.
Step 5: With centre M and radius 5 cm, draw an arc intersecting MX at A.
Step 6: Join AB and AC.
Δ ABC is the required triangle.
Step 7: Draw a line BY below BC.
Step 8: Cut off 4 equal distances from BY so that
$BB_1 = B_1B_2 = B_2B_3 = B_3B_4$
Step 9: Join CB_4
Step 10: Draw $C'B_3$ parallel to CB_4
Step 11: Draw C'A' parallel to CA, through C' intersecting BA at A'.
Δ A'BC' is the required similar triangle.

********** END **********