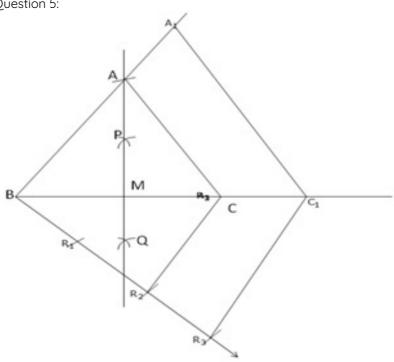


Exercise 13A

Question 5:



Steps of construction:

Step 1: Draw a line segment BC = 6 cm

Step 2: Draw a right bisector PQ of BC meeting it at M.

Step 3: From QP cut - off a distance MA = 4 cm

Step 4: Join AB, AC.

 $\boldsymbol{\Delta}$ ABC is the given triangle.

Step 5: Below BC, draw a line BX.

Step 6: Along BX, cut - off 3 equal distances such that

 $BR_1 = R_1R_2 = R_2R_3$

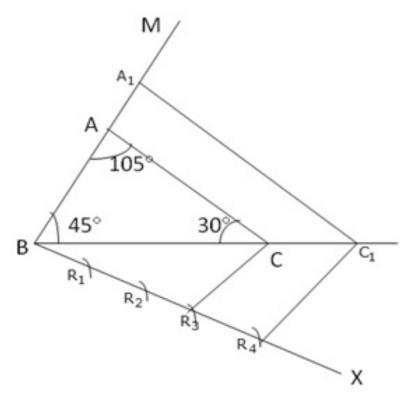
Step 7: Join R₂C.

Step 8: Through R_3 draw a line $R_3C_1 \parallel R_2C$.

Step 9 : Through C_1 draw line $C_1A_1 \parallel CA$

 $\Delta~\text{A}_1\text{BC}_1$ is the required triangle.

Question 6:



Steps of Construction:

Step 1: Draw a line segment BC = 5.4 cm

Step 2. At B, draw \angle CBM = 45°

Step 3: Now \angle A = 105°, \angle B = 45°, \angle C = 180° - (105°+ 45°) = 30°

At C draw \angle BCA = 30°.

 Δ ABC is the given triangle.

Step 4: Draw a line BX below BC.

Step 5: Cut-off equal distances such that $BR_1 = R_1R_2 = R_2R_3 = R_3R_4$

Step 6: Join R₃C.

Step 7: Through R_4 , draw a line $R_4C_1 \parallel R_3C$.

Step 8: Through C_1 draw a line C_1A_1 parallel to CA.

 Δ A₁BC₁ is the required triangle.

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