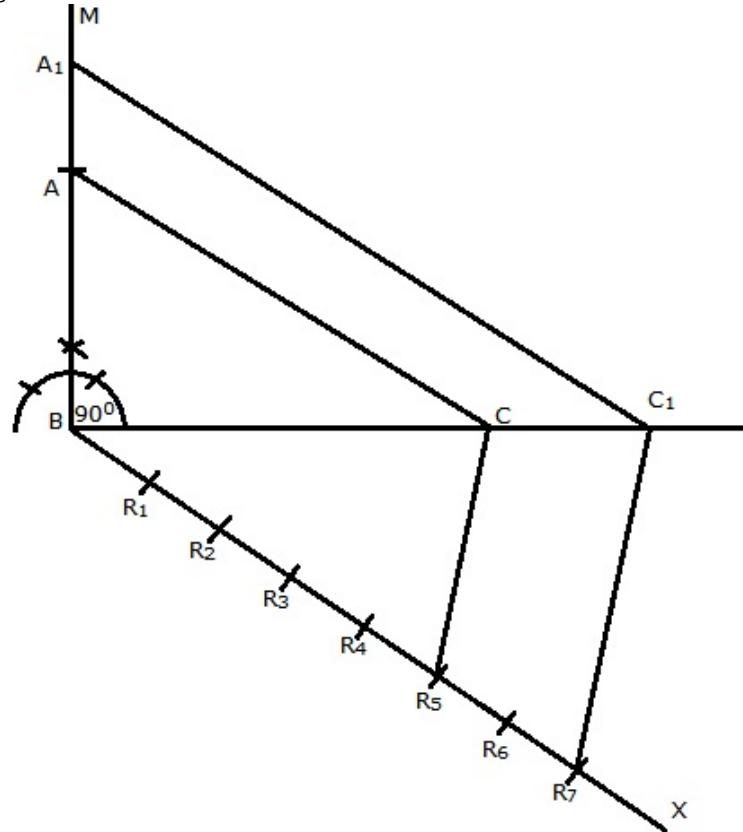




### Exercise 13A

Question 7:



Steps of Construction:

Step 1: Draw a line segment  $BC = 4\text{ cm}$

Step 2: Draw a right- angle  $CBM$  at  $B$ .

Step 3: Cut-off  $BA = 3\text{cm}$  from  $BM$ .

Step 4: Join  $AC$ .

$\Delta ABC$  is the given triangle.

Step 5: Below  $BC$  draw a line  $BX$ .

Step 6: Along  $BX$ , cut-off 7 equal distances such that

$BR_1 = R_1R_2 = R_2R_3 = R_3R_4 = R_4R_5 = R_5R_6 = R_6R_7$

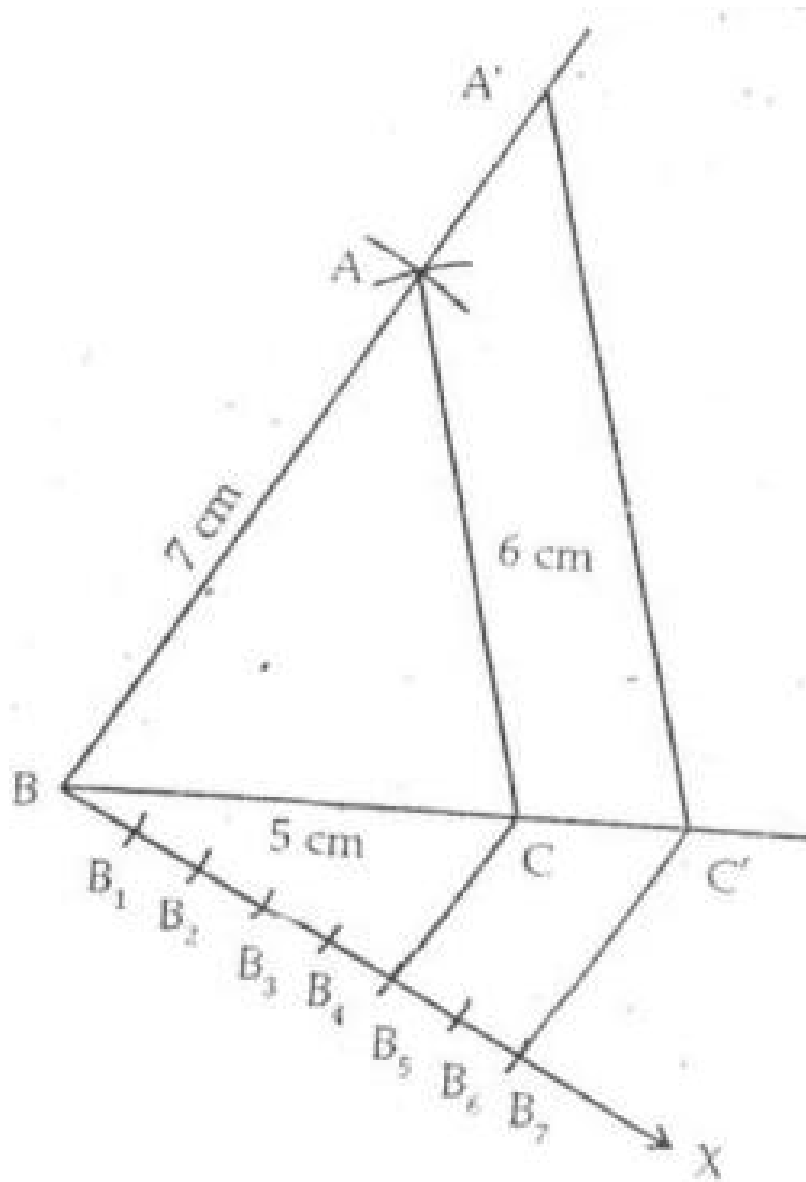
Step 7: Join  $R_5C$ .

Step 8: Through  $R_7$  draw a line parallel to  $R_5C$  cutting  $BC$  produced at  $C_1$

Step 9: Through  $C_1$  draw a line parallel to  $CA$  cutting  $BA$  at  $A_1$

$\Delta A_1BC_1$  is the required triangle.

Question 8:



Steps of Construction:

Step 1: draw a line segment  $BC = 5\text{ cm}$

Step 2: With B as centre and radius  $7\text{ cm}$  an arc is drawn.

Step 3: With C as centre and radius  $6\text{ cm}$  another arc is drawn intersecting the previous arc at A.

Step 4: Join AB and AC.

Step 5:  $\triangle ABC$  is the given triangle.

Step 6: Draw a line BX below BC.

Step 7: Cut- off equal distances from BX such that

$BB_1 = B_1B_2 = B_2B_3 = B_3B_4 = B_4B_5 = B_5B_6 = B_6B_7$

Step 8: join  $B_5C$ .

Step 9: Draw a line through  $B_7$  parallel to  $B_5C$  cutting BC produced at  $C'$ .

Step 10: Through  $C'$  draw a line parallel to CA, cutting BA produced at  $A'$ .

Step 11:  $\triangle A'BC'$  is the required triangle.

\*\*\*\*\* END \*\*\*\*\*