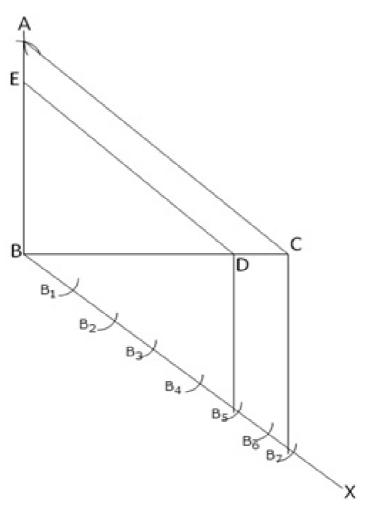


Exercise 13A

Question 3:



Steps of construction:

Step 1: Draw a line segment BC = 6 cm

Step 2: With B as centre and radius equal to 5 cm draw an arc.

Step 3: With C as centre and radius equal to 7 cm draw another arc cutting the previous arc at A.

Step 4: Join AB and AC. Thus,  $\Delta$  ABC is obtained.

Step 5: Below BC draw another line BX.

Step 6: Mark 7 points  $B_1B_2B_3B_4B_5B_6B_7$  such that

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

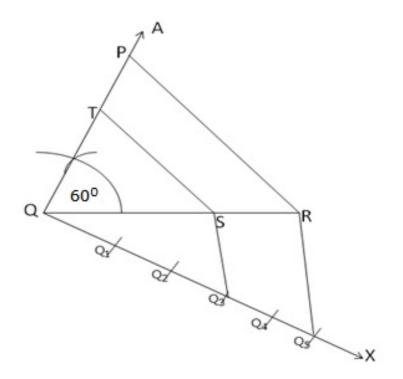
Step 7: Join B<sub>7</sub>C.

Step 8: from  $B_5$ , draw  $B_5D \parallel B_7C$ .

Step 9: Draw a line DE through D parallel to CA.

Hence  $\Delta$  BDE is the required triangle.

Question 4:



Steps of construction:

Step 1: Draw a line segment QR = 6 cm

Step 2: At Q, draw an angle RQA of 60°.

Step 3: From QA cut off a segment QP = 5 cm.

Join PR.  $\triangle$  PQR is the given triangle. Step 4: Below QR draw another line QX.

Step 5: Along QX cut - off equal distances  $Q_1Q_2Q_3Q_4Q_5$ 

 $QQ_1 = Q_1Q_2 = Q_2Q_3 = Q_3Q_4 = Q_4Q_5$ 

Step 6: Join  $Q_5R$ .

Step 7: Through Q $_3$  draw Q $_3$ S  $\parallel$  Q $_5$ R.

Step 8: Through S, draw ST || PR.

 $\Delta$  TQS is the required triangle.

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