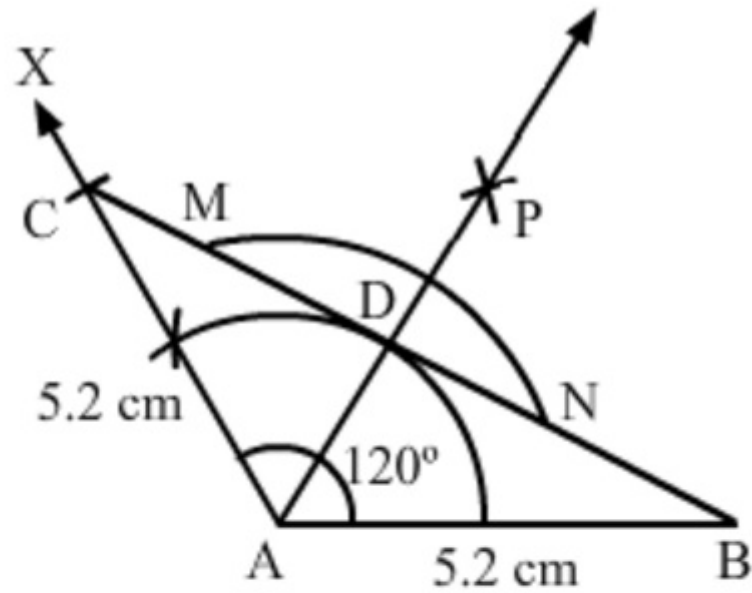




Exercise 17B

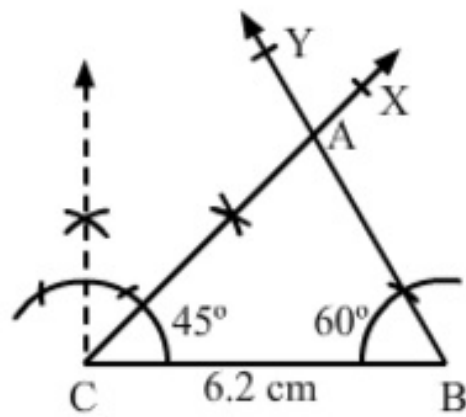


Q8

Answer :

Steps of construction:

1. Draw $BC=6.2$ cm
2. Draw $\angle BCX=45^\circ$
3. Draw $\angle CBY=60^\circ$
4. The ray CX and BY intersect at A .
Then, ABC is the required triangle.



Q9

Answer :

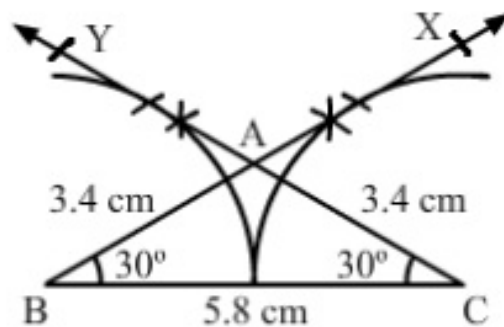
Steps of construction:

1. Draw $BC = 5.8$ cm
2. Draw $\angle BCY = 30^\circ$
3. Draw $\angle CBX = 30^\circ$
4. The ray BX and CY intersect at A .

Then, ABC is the required triangle.

On measuring AB and AC :

$$AB = AC = 3.4 \text{ cm}$$



Q10

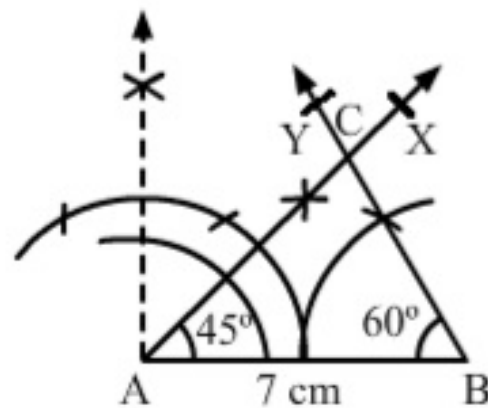
Answer :

By angle sum property :

$$\begin{aligned}\angle B &= 180^\circ - \angle A - \angle C \\ &= 180^\circ - 45^\circ - 75^\circ \\ &= 60^\circ\end{aligned}$$

Steps of construction:

1. Draw $AB=7\text{cm}$
 - 2 Draw $\angle BAX= 45^\circ$
 3. Draw $\angle ABY= 60^\circ$
 - 4.The ray AX and BY intersect at C .
- Then, ABC is the required triangle.

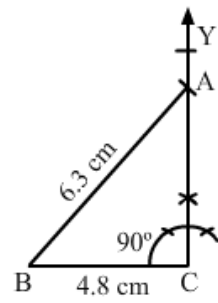


Q11

Answer :

Steps of construction:

1. Draw $BC = 4.8$ cm
2. Draw a perpendicular on C such that $\angle C$ is equal to 90° .
3. Draw an arc of radius 6.3 cm from the centre B.
4. Join AB.



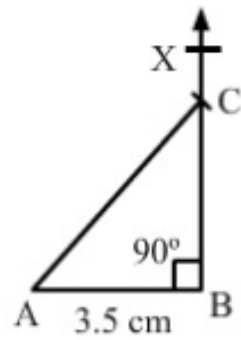
Q12

Answer :

Steps of construction:

1. Draw $AB = 3.5$ cm
2. Construct $\angle ABX = 90^\circ$
3. With centre A, draw an arc of radius 6 cm cutting BX at C.
4. Join AC.

Then, ABC is the required triangle.



Q13

Answer :

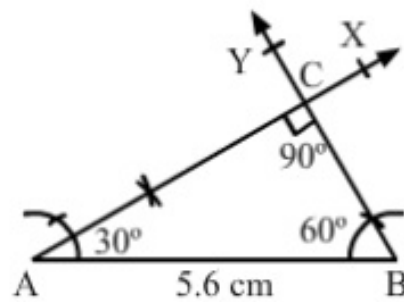
Here, $\angle A = 30^\circ$ and $\angle C = 90^\circ$

By angle sum property:

$\angle B = 60^\circ$

1. Draw the hypotenuse AB of length 5.6 cm.
2. Draw $\angle BAX = 30^\circ$ and $\angle ABY = 60^\circ$
3. The ray AX and BY intersect at C.

Then, ABC is the required triangle.



***** END *****