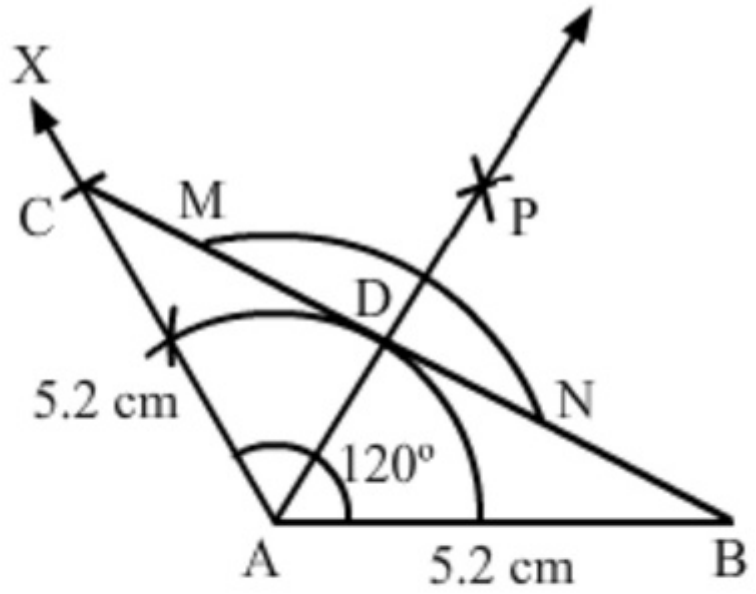
Exercise 17B



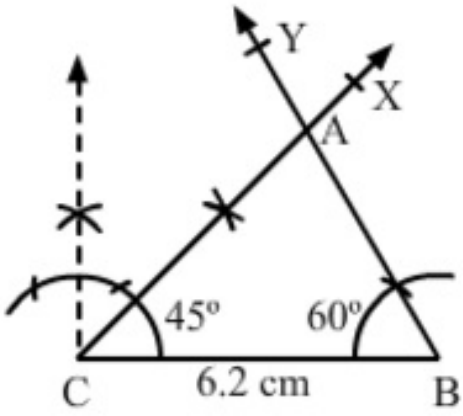
Q8

Answer :

Steps of construction:

1. Draw BC=6.2 cm
2. Draw ∠BCX=45°
3. Draw ∠CBY=60°
4. The ray CX and BY intersect at A.

Then, ABC is the required triangle.



Q9

Answer :

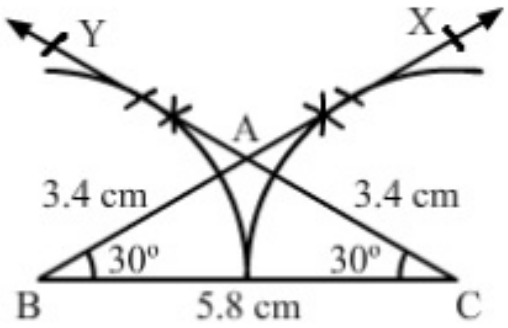
Steps of construction:

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 :

$AB = AC = 3.4$ cm



Q10

Answer :

By angle sum property :

$\angle B = 180^\circ - \angle A - \angle C$

$= 180^\circ - 45^\circ - 75^\circ$

$= 60^\circ$

Steps of construction:

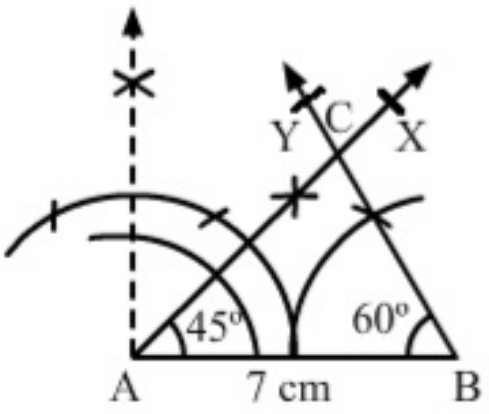
1. Draw AB=7cm

2 Draw $\angle$BAX= 45°

3. Draw $\angle$ABY= 60°

4.The ray AX and BY intersect at C.

Then, ABC is the required triangle.



Q11

Answer :

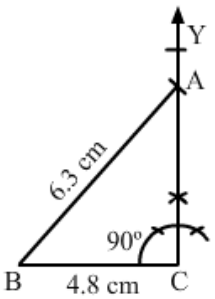
Steps of construction:

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:

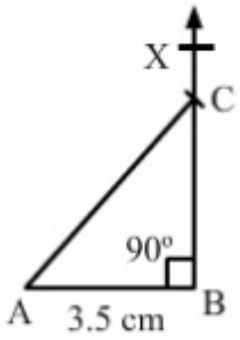
1. Draw AB=3.5 cm

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 :

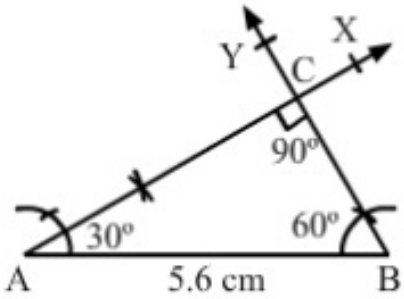
Here, $\angle A=30^\circ$ and $\angle C=90^\circ$

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.



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