Constructions Ex 17.4 Q4

Answer :

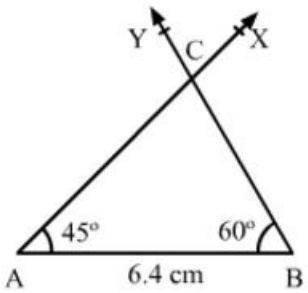
Steps of construction:

Draw a line segment AB = 6.4 cm.

Draw $\angle BAX = 45^\circ$.

Draw ∠ABY with Y on the same side of AB as X such that ∠ABY = 60°.

Let AX and BY intersect at C; ABC is the required triangle.



Constructions Ex 17.4 Q5

Answer :

We can see that ∠A+∠B+∠C = 180°. Therefore ∠C = 180° − 60° − 90° = 30°.

Steps of construction:

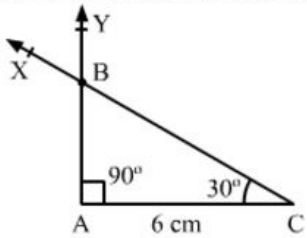
Draw a line segment AC = 6 cm.

Draw $\angle ACX = 30^\circ$.

Draw ∠CAY with Y on the same side of AC as X such that ∠CAY = 90°.

Join CX and AY. Let these intersect at B.

ABC is the required triangle where angle ∠ABC = 60°.



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