



Constructions Ex 17.4 Q4

Answer :

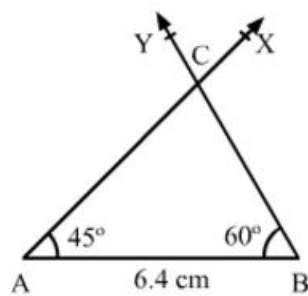
Steps of construction:

Draw a line segment $AB = 6.4$ cm.

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

Draw $\angle ABY$ with Y on the same side of AB as X such that $\angle ABY = 60^\circ$.

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



Constructions Ex 17.4 Q5

Answer :

We can see that $\angle A + \angle B + \angle C = 180^\circ$. Therefore $\angle C = 180^\circ - 60^\circ - 90^\circ = 30^\circ$.

Steps of construction:

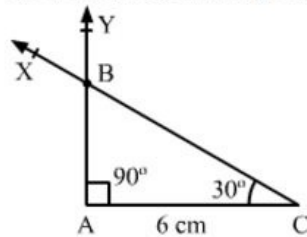
Draw a line segment $AC = 6$ cm.

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

Draw $\angle CAY$ with Y on the same side of AC as X such that $\angle CAY = 90^\circ$.

Join CX and AY . Let these intersect at B .

ABC is the required triangle where angle $\angle ABC = 60^\circ$.



***** END *****