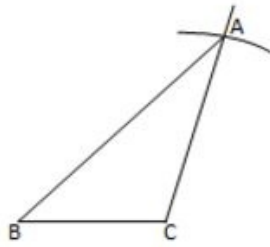




Properties of Triangles Ex 15.5 Q15

Answer :



Draw $\triangle ABC$.

Draw a line $BC = 3$ cm.

At point C, draw a line at 105° angle with BC .

Take an arc of 4 cm from point C, which will cut the line at point A.

Now, join AB, which will be approximately 5.5 cm.

$$AC^2 + BC^2 = 4^2 + 3^2 = 9 + 16 = 25$$

$$AB^2 = 5.5^2 = 30.25$$

$$(AB)^2 \neq (AC)^2 + (BC)^2$$

Here,

$$(AB)^2 > (AC)^2 + (BC)^2$$

Properties of Triangles Ex 15.5 Q16

Answer :

First draw $\triangle ABC$.



Draw a line $BC = 3$ cm.

At point C, draw a line at 80° angle with BC .

Take an arc of 4 cm from point C, which will cut the line at point A.

Now, join AB ; it will be approximately 4.5 cm.

$$AC^2 + BC^2 = 4^2 + 3^2 = 9 + 16 = 25$$

$$AB^2 = 4.5^2 = 20.25$$

$$(AB)^2 \neq (AC)^2 + (BC)^2$$

Here,

$$(AB)^2 < (AC)^2 + (BC)^2$$

***** END *****