EE24BTECH11030 - J.KEDARANANDA

Ouestion:

Draw an Right angle triangle $\triangle ABC$ in which BC = 12 cm, AB = 5 cm, and $\angle B = 90^{\circ}$. **Solution:**

Variable	Value
ВС	12 cm
AB	5 cm
∠B	90°

TABLE 0

$$AB^2 = 5^2 = 25, (0.1)$$

$$BC^2 = 12^2 = 144. ag{0.2}$$

By pythagoras theorm

$$AC^2 = AB^2 + BC^2 (0.3)$$

Now substituting in the values:

$$AC^2 = 25 + 144 \tag{0.4}$$

$$= 169.$$
 (0.5)

Thus, we find:

$$AC = \sqrt{169} \tag{0.6}$$

$$= 13 \text{ cm}.$$
 (0.7)

1

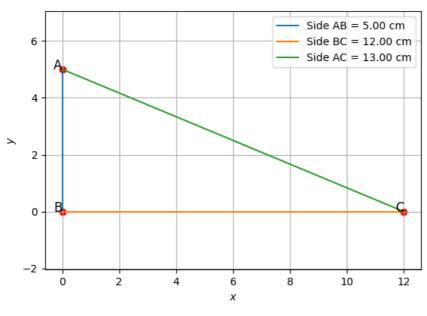


Fig. 0.1