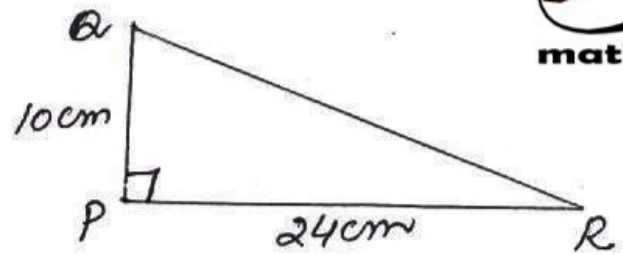


1.

In rt ΔQPR

$$\begin{aligned} QR^2 &= PQ^2 + PR^2 \quad (*) \\ &= 10^2 + 24^2 \\ &= 100 + 576 \end{aligned}$$

$$\begin{aligned} QR &= \sqrt{676} \\ &= 26 \text{ cm} \end{aligned}$$

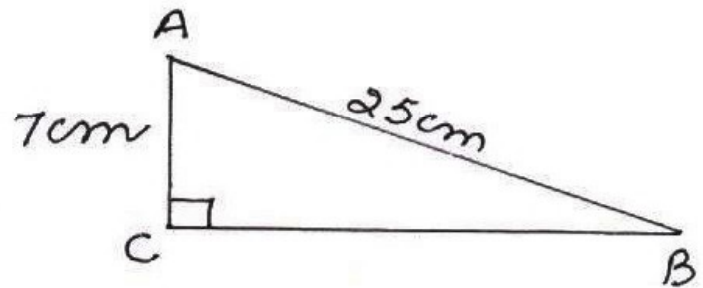


2. In rt ΔBCA

$$\begin{aligned} AB^2 &= AC^2 + BC^2 \quad (*) \\ 25^2 &= 7^2 + BC^2 \end{aligned}$$

$$\begin{aligned} \Rightarrow BC^2 &= 25^2 - 7^2 \\ &= (25-7)(25+7) \end{aligned}$$

$$\begin{aligned} \Rightarrow BC &= \sqrt{18 \times 32} \\ &= \sqrt{3^2 \times 2 \times 2 \times 2^2 \times 2^2} \\ &= 3 \times 2 \times 2 \times 2 \\ &= 24 \text{ cm} \end{aligned}$$



* Pythagoras theorem