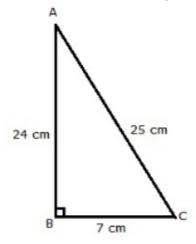


## Question 18

Given:  $\triangle$ ABC in which  $\angle$ B = 900, AB = 24 cm and BC = 7cm



## By Pythagoras theorem, we have

$$\Rightarrow$$
  $(AC)^2 = [(24)^2 + (7)^2] cm^2$ 

$$(AC)^2 = (576 + 49) \text{ cm}^2$$

$$(AC)^2 = 625 cm^2$$

(i) For T-ratio of ∠A, we have

Base AB= 24cm

Perpendicular BC = 7cm

Hypotenuse AC = 25cm

$$\cos A = \frac{AB}{AC} = \frac{24}{25}, \sin A = \frac{BC}{AC} = \frac{7}{25}$$

## (ii) For T-ratio of ∠C, we have

Base BC = 7 cm

Perpendicular AB = 24cm

Hypotenuse AC = 25cm

$$\therefore \sin C = \frac{AB}{AC} = \frac{24}{25}, \cos C = \frac{BC}{AC} = \frac{7}{25}$$

\*\*\*\*\*\*\*\*\* END \*\*\*\*\*\*\*