NCERT Solutions for Class 10 Maths Chapter 8 Introduction to Trigonometry

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NCERT Solutions for Class 10 Maths Chapter 8 Introduction to Trigonometry Excercise 8.1

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Question 1. In \triangle ABC, right-angled at B, AB = 24 cm, BC = 7 cm. Determine :

(i) sin A, cos A

(ii) sin C, cos C

Solution:

In ∆ABC by applying Pythagoras theorem

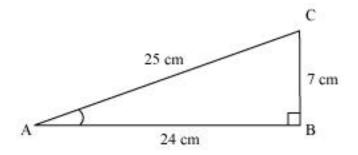
 $AC^2 = AB^2 + BC^2$

 $= (24)^2 + (7)^2$

= 576 + 49

= 625

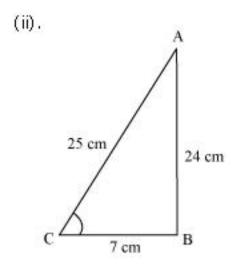
 $AC = \sqrt{625} = 25 \text{ cm}$



(i).
$$\sin A = \frac{\text{Side opposite to } \angle A}{\text{hypotenuse}} = \frac{BC}{AC}$$

$$= \frac{7}{25}$$

$$\cos A = \frac{\text{Side adjacent to } \angle A}{\text{hypotenuse}} = \frac{AB}{AC} = \frac{24}{25}$$



$$\sin C = \frac{\text{Side opposite to } \angle C}{\text{hypotenuse}} = \frac{\text{AB}}{\text{AC}}$$

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