

## Chapter 8: Introduction to Trigonometry

### Exercise 8.1 (Page 181 of Grade 10 NCERT Textbook)

**Q1.** In  $\triangle ABC$ , right-angled at B,  $AB = 24$  cm,  $BC = 7$  cm, determine:

- (i)  $\sin A$ ,  $\cos A$
- (ii)  $\sin C$ ,  $\cos C$

**Difficulty level:** Easy

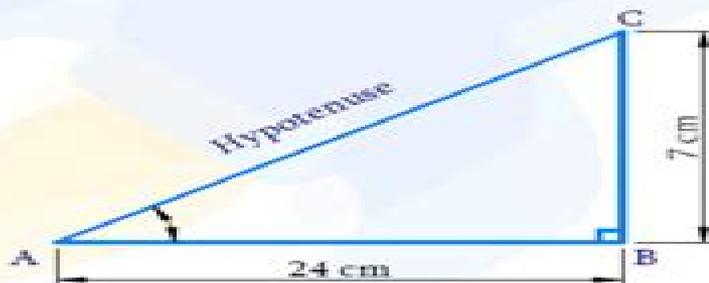
**What is the known?**

Two sides of a right-angled triangle  $\triangle ABC$

**What is the unknown?**

Sine and cosine of angle A and C.

**Reasoning:**



Applying Pythagoras theorem for  $\triangle ABC$ , we can find hypotenuse (side AC). Once hypotenuse is known, we can find sine and cosine angle using trigonometric ratios.

**Solution:**

In  $\triangle ABC$ , we obtain,

$$\begin{aligned} AC^2 &= AB^2 + BC^2 \\ &= (24\text{cm})^2 + (7\text{cm})^2 \\ &= (576 + 49)\text{cm}^2 \\ &= 625\text{cm}^2 \end{aligned}$$

# Functions Statistics And Trigonometry Chapter 8

**Thomas Griffiths**



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