

Lab Activity : Trigonometry

Objective

To verify the fundamental identity:

$$\sin^2 \theta + \cos^2 \theta = 1$$

Pre-requisite Knowledge

- Concept of a right triangle.
- Concept of trigonometric ratios, particularly:

$$\sin \theta = \frac{\text{Perpendicular}}{\text{Hypotenuse}}, \text{ and } \cos \theta = \frac{\text{Base}}{\text{Hypotenuse}}$$

Materials Required

- A drawing sheet
- A pencil
- A geometry box
- Coloured sketch pens



Logical Steps of the Activity

1. On a drawing sheet, draw a right triangle ABC , right angled at B , such that its base $BC = 4$ cm, side $AB = 3$ cm, and hypotenuse $AC = 5$ cm, as shown in Fig. (i). Mark the acute angle C on its base as θ .



Fig (i)

2. Similarly, draw two more right triangles, say PQR and LMN , right angled at Q and M respectively, and with dimensions different from those of triangle ABC , as shown in Fig. (ii).

Trigonometry Lab Manual

RM Cervero



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