

Trigonometry – Class 9A Test

Title: Trigonometry

Grade: 9A

Description: This test assesses understanding of basic trigonometric concepts and their application in right-angled triangles.

Duration: 30 minutes

Due Date: 15-11-2025

Instructions

- Answer all questions.
- Write clearly and show all working where appropriate.
- Marks are indicated for each question.

1. Objective: Multiple Choice

Which of the following is not a trigonometric ratio for a right-angled triangle?

- A) Sine
- B) Cosine
- C) Tangent
- D) Diagonal

Mark: 1

2. Objective: True or False

State whether the following statement is true or false:

"In a right-angled triangle, the cosine of an angle is equal to the ratio of the adjacent side to the hypotenuse."

Mark: 1

3. Short Answer

In a right-angled triangle $\triangle ABC$, right-angled at B , if $\angle A = 30^\circ$ and $AB = 6$ cm, find the length of AC . (Use $\cos 30^\circ = \frac{\sqrt{3}}{2}$).

Mark: 2