

Date: 24-4-2026

Grade 12 GEN

Lesson 9-2  
trigonometric  
functions of  
General angles.

### Objectives

Find values of  
trigonometric  
functions for  
acute angles.



Module-8-

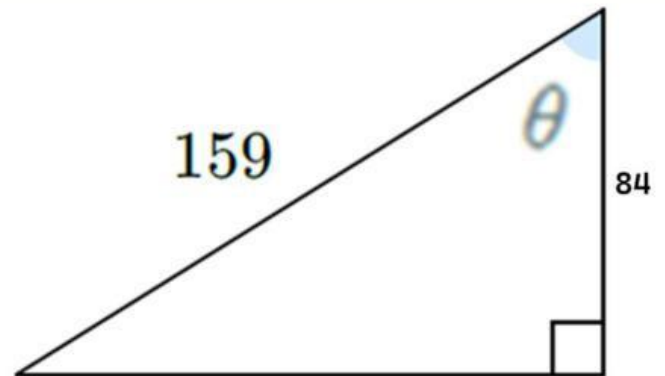
2025-2026

# Mathematics

## Trigonometric Functions



Exp-1-



opp

adj

hyp

Find the exact values of the six trigonometric functions for angle  $\theta$ .

|               |       |               |       |               |       |
|---------------|-------|---------------|-------|---------------|-------|
| $\sin \theta$ | _____ | $\cos \theta$ | _____ | $\tan \theta$ | _____ |
| $\csc \theta$ | _____ | $\sec \theta$ | _____ | $\cot \theta$ | _____ |

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# Mathematics

## Trigonometric Functions



### Exp- 2-

If  $\sin \theta = \frac{1}{\sqrt{2}}$  and  $\cos \theta < 0$ ,

1- find  $\cos \theta$  ?

a)  $\cos \theta = \frac{1}{\sqrt{2}}$

b)  $\cos \theta = -\frac{1}{\sqrt{2}}$

c)  $\cos \theta = 1$

d)  $\cos \theta = -1$

2-

Find  $\tan \theta$

a)  $\tan \theta = \frac{1}{\sqrt{2}}$

b)  $\tan \theta = -\frac{1}{\sqrt{2}}$

c)  $\tan \theta = 1$

d)  $\tan \theta = -1$