

Date: 24-4-2026

Grade 12 GEN

Lesson 9-2
trigonometric
functions of
General angles.

Objectives

Find values of
trigonometric
functions for
acute angles.



وزارة التربية والتعليم
Term-3

Module-8-

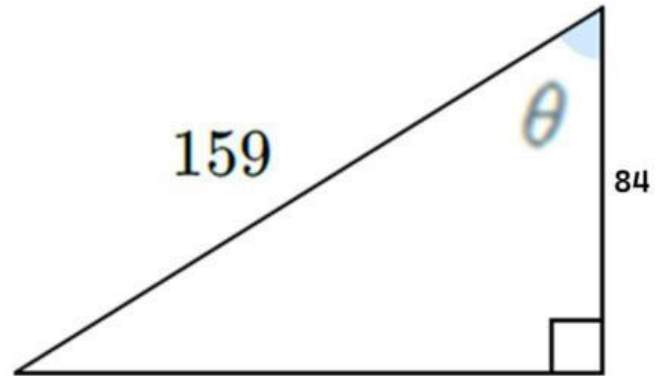
Mathematics

2025-2026

Trigonometric Functions



Exp-1-



opp	<input type="text"/>
adj	<input type="text"/>
hyp	<input type="text"/>

Find the exact values of the six trigonometric functions for angle θ .

$\sin \theta$	<input type="text"/>	$\cos \theta$	<input type="text"/>	$\tan \theta$	<input type="text"/>
$\csc \theta$	<input type="text"/>	$\sec \theta$	<input type="text"/>	$\cot \theta$	<input type="text"/>

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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) $\tan \theta = -1$