Date:20-4-2026

Grade 12 GEN

Lesson 9-2 trigonometric functions of General angles.

Objectives

Find values of trigonometric functions for acute angles.
.Reference Angle

Mathematics

Module-8- 2025-2026

وزارة التربية و التعليم

Term-3

Trigonometric Functions

MR Rachid K

Exp-1-

The point $M(-2,0)$ is on the terminal side of a standard angle.

Find the values of the given trigonometric functions.

$\sin\theta =$ ☐ $\tan\theta =$ ☐

$\cos\theta =$ ☐ $\sec\theta =$ ☐

$$\sin\theta = \frac{y}{r} \qquad \cos\theta = \frac{x}{r} \qquad \tan\theta = \frac{y}{x} \qquad \sec\theta = \frac{r}{x}$$

Exp-2-

Trigonometric Values for Special Angles

θ	30° or $\frac{\pi}{6}$	45° or $\frac{\pi}{4}$	60° or $\frac{\pi}{3}$
$\sin\theta$			
$\cos\theta$			
$\tan\theta$			

$\frac{\sqrt{2}}{2}$ $\frac{1}{2}$ $\frac{\sqrt{3}}{2}$

1 $\frac{\sqrt{3}}{3}$ $\sqrt{3}$

$\frac{1}{2}$ $\frac{\sqrt{2}}{2}$ $\frac{\sqrt{3}}{2}$

LIVEWORKSHEETS