Grade 12 GEN

Lesson 9-2 trigonometric functions of General angles.

Mathematics

Module-8- 2025-2026

وزارة التربية و التعليم

Term-3

Trigonometric Functions

MR Rachid K

Reference Angle

Exp-1-

A **Find the measure of the reference angle of θ**

The reference angle, θ'

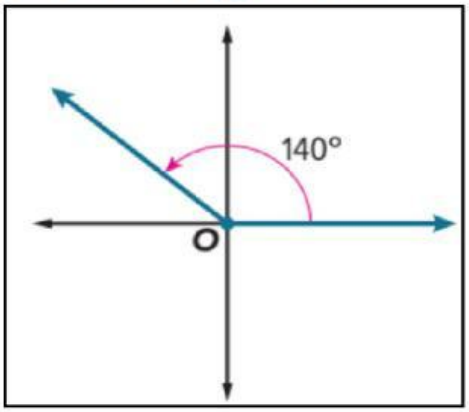
Its measure is

a. 20°

b. 140°

c. -40°

d. 40°



B

Find the exact value of $\cos(\frac{-\pi}{3})$.

The angle is in Quadrant

a. I

b. II

c. III

d. IV

so $\cos(\frac{-\pi}{3})$ is

a. Positive

b. Negative

The reference angle for $\frac{-\pi}{3}$ is

a. $\frac{\pi}{3}$

b. $\frac{\pi}{2}$

c. $\frac{\pi}{6}$

d. $\frac{\pi}{4}$

$\cos(\frac{-\pi}{3}) =$

a. $\frac{1}{2}$

b. $\frac{\sqrt{3}}{2}$

c. $-\frac{1}{2}$

d. $-\frac{\sqrt{3}}{2}$

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Exp-2-

A Find the measure of the reference angle of θ

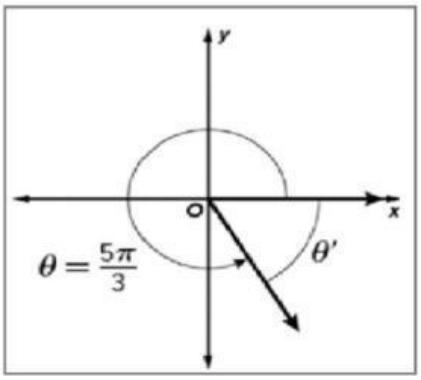
The reference angle, θ'

a) $\theta' = \frac{\pi}{3}$

b) $\theta' = \frac{5\pi}{36}$

c) $\theta' = \frac{3\pi}{8}$

d) $\theta' = \frac{\pi}{6}$



B Find the exact value of $\sin(\frac{\pi}{4})$

The angle is in Quadrant

a. I

b.II

c.III

d.IV

so : $\sin(\frac{\pi}{4})$ is

a. Positive

b. Negative

The reference angle for $\frac{\pi}{4}$ is

a. $\frac{\pi}{3}$

b. $\frac{\pi}{2}$

c. $\frac{\pi}{6}$

d. $\frac{\pi}{4}$

$\sin(\frac{\pi}{4}) =$

a. $\frac{1}{2}$

b. $\frac{\sqrt{2}}{2}$

c. $-\frac{1}{2}$

d. $-\frac{\sqrt{2}}{2}$