Grade 12 GEN

Lesson 9-2 trigonometric functions of General angles.

Mathematics

Module-8- 2025-2026

وزارة التربية و التعليم

Term-3

Trigonometric Functions

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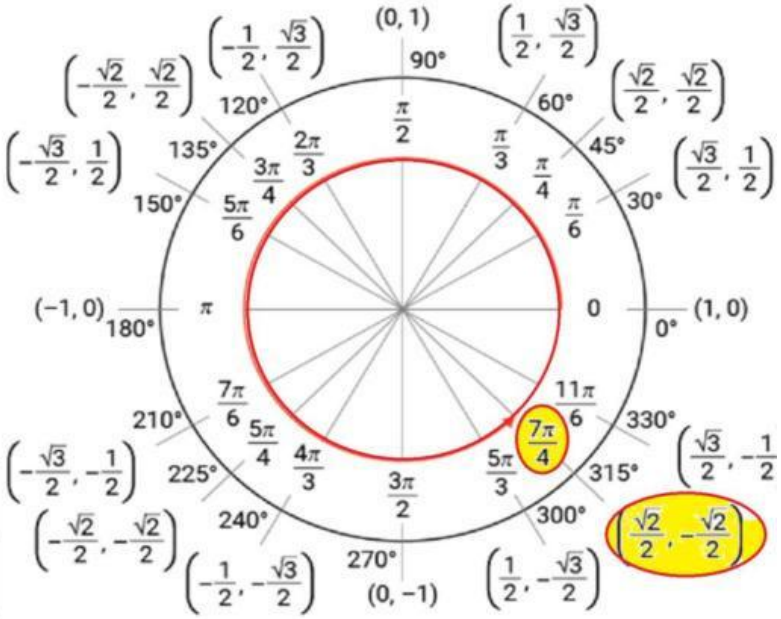
Exp-1- **Trigonometric Functions Values**

Find the exact values of the trigonometric functions of an angle that measures $\frac{7\pi}{4}$ radians.

Choose the correct option from the drop-down list.



$\tan\theta =$ ☐ a. 1 b. $\sqrt{2}$ c. -1 d. $-\sqrt{2}$

; $\cot\theta =$ ☐ a. 1 b. $\sqrt{2}$ c. -1 d. $-\sqrt{2}$

$\csc\theta =$ ☐ a. -1 b. $\sqrt{2}$ c. $\frac{\sqrt{2}}{2}$ d. $-\sqrt{2}$

; $\sec\theta =$ ☐ a. 1 b. $\sqrt{2}$ c. $-\frac{\sqrt{2}}{2}$ d. $-\sqrt{2}$

Trigonometric Functions Values

Find the exact values of the trigonometric functions of an angle that measures $\frac{5\pi}{4}$ radians.

Choose the correct option from the drop-down list.

Exp-2-

$\tan\theta =$ ☐ a. 1 b. $\sqrt{2}$ c. -1 d. $-\sqrt{2}$

; $\cot\theta =$ ☐ a. 1 b. $\sqrt{2}$ c. -1 d. $-\sqrt{2}$

$\csc\theta =$ ☐ a. -1 b. $\sqrt{2}$ c. $\frac{\sqrt{2}}{2}$ d. $-\sqrt{2}$

; $\sec\theta =$ ☐ a. 1 b. $\sqrt{2}$ c. $-\frac{\sqrt{2}}{2}$ d. $-\sqrt{2}$

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LIVEWORKSHEETS