Grade 12 GEN

Lesson 9-4
Graphing Sine and Cosine Functions

Mathematics

Module-8- 2025-2026

وزارة التربية و التعليم

Term-3

Trigonometric Functions

AL-QUDRA SCHOOL

MR Rachid K

1. Identify the amplitude and period of

1. $y = \sin 4x$ amplitude : ____ period : ____ °

2. $y = \cos 5x$ amplitude : ____ period : ____ °

3. $y = 4\cos 4x$ amplitude : ____ period : ____ °

4. $y = 2\cos(-4x)$ amplitude ____ period : ____ °

5. $y = -2\sin x$ amplitude : ____ period : ____ °

LIVEWORKSHEETS

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2. Identify the amplitude and period of

$y = -\cos(2x)$

amplitude

- 2
- 1
- -0.5
- -1

$y = 3\sin(5x)$

amplitude

- 5
- 15
- 3
- 2

$y = 2\cos x + 1$

amplitude

- 3
- -2
- -1
- 2

$y = 0.5\sin x - 3$

amplitude

- 1.5
- 0.5
- -2.5
- 6

$f(x) = 3\sin(4\pi x)$

period

- 3
- $\frac{1}{2}$
- 4
- $\frac{4}{3}$

amplitude

- 7
- 1
- 4
- 3

$f(x) = -10\cos\left(2x + \frac{\pi}{2}\right)$

period

- a 2π
- b π
- c -10
- d 5

amplitude

- a -10
- b 5
- c 10
- d 6

LIVEWORKSHEETS