Trigonometry, 10-question test — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **If sin θ = 5/13 and θ is in Quadrant I, then cos θ is**

Question 1

If $\sin\ \theta\ =\ \frac{5}{13}$ and θ is in Quadrant I, then $\cos\ \theta$ is

A) $\frac{12}{13}$

B) $\frac{5}{12}$

C) $-\frac{12}{13}$

D) $\frac{13}{12}$

- **A** 12/13
- **B** 5/12
- **C** -12/13
- **D** 13/12

Understand It with Pulse | Flag a mistake

2 The period of y = sin(2x) is

Question 2

The period of $y = \sin(2x)$ is

A) 2π

B) π

C) $\frac{\pi}{2}$

D) 4π

A 2π

B π

C π/2

D 4π

Understand It with Pulse

Flag a mistake

3 The amplitude of y = 3 cos x + 1 is

Question 3

The amplitude of $y = 3 \cos x + 1$ is

A) 1

B) 3

C) 4

D) 2

A 1

B 3

C 4

D 2

Understand It with Pulse

Flag a mistake

4 The midline of y = 3 cos x + 1 is

Question 4

The midline of $y = 3 \cos x + 1$ is

A) $y = 1$

B) $y = 0$

C) $y = 3$

D) $y = 4$

- **A** y = 0
- **B** y = 1
- **C** y = 3
- **D** y = 4

Understand It with Pulse | Flag a mistake

5 The value of csc 30° is ____.

Question 5

The value of csc 30° is _____.

ANSWER _____

Understand It with Pulse | Flag a mistake

6 If cos θ = 4/5 and sin θ = 3/5, then cos 2θ is

Question 6

If $\cos\ \theta\ =\ \frac{4}{5}$ and $\sin\ \theta\ =\ \frac{3}{5}$, then $\cos\ 2\theta$ is

A) $\frac{7}{25}$

B) $\frac{24}{25}$

C) $\frac{16}{25}$

D) $\frac{9}{25}$

A 7/25

B 24/25

C 16/25

D 9/25

Understand It with Pulse

Flag a mistake

7

In a right triangle with adjacent side 8 and hypotenuse 10, the cosine of the angle is

Question 7

In a right triangle with adjacent side 8 and hypotenuse 10, the cosine of the angle is

A) $\frac{6}{10}$

B) $\frac{8}{10}$

C) $\frac{10}{8}$

D) $\frac{6}{8}$

A 6/10

B 8/10

C 10/8

D 6/8

Understand It with Pulse

Flag a mistake

8 An angle coterminal with 400° between 0° and 360° is

Question 8

An angle coterminal with 400° between 0° and 360° is

A) 40°

B) 140°

C) 220°

D) 320°

A 40°

B 140°

C 220°

D 320°

Understand It with Pulse

Flag a mistake

9 **The value of sin 270° is**

Question 9

The value of sin 270° is

A) 1

B) 0

C) $\frac{1}{2}$

D) −1

- **A** 1
- **B** 0
- **C** 1/2
- **D** -1

Understand It with Pulse | Flag a mistake

10 **The value of tan 0° is ____.**

Question 10

The value of tan 0° is _____.

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. A
2. B
3. B
4. B
5. 2
6. A
7. B
8. A
9. D
10. 0

© 2026 Brett Robbins. All Rights Reserved.