CALIFORNIA PRECALCULUS · UNIT 2 · 10 QUESTIONS

Trigonometry and Trigonometric Functions — 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 $\sin\theta = \frac{2}{3}$, then $\csc\theta$ is

- **A** 3
- **B** $\frac{3}{2}$
- **C** $\frac{2}{3}$
- **D** $\frac{1}{3}$

Understand It with Pulse | Flag a mistake

2 **The period of y = tan x is**

- **A** 4π
- **B** π
- **C** 2π
- **D** $\frac{\pi}{2}$

Understand It with Pulse | Flag a mistake

3 **The amplitude of y = 5 cos x is**

- **A** 5
- **B** 1
- **C** 2
- **D** 2π

Understand It with Pulse | Flag a mistake

4 **The solutions of $\sin x = 0$ on $[0, 2\pi)$ are**

- **A** $\frac{\pi}{2}$ and $\frac{3\pi}{2}$
- **B** 0 and π
- **C** 0 only
- **D** π only

Understand It with Pulse | Flag a mistake

5 **If $\sin\theta = \frac{5}{13}$ and $\cos\theta = \frac{12}{13}$, then $\cos 2\theta$ is**

- **A** $\frac{25}{169}$
- **B** $\frac{144}{169}$
- **C** $\frac{119}{169}$
- **D** $\frac{120}{169}$

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6 In a triangle with A = 30°, a = 6, and B = 45°, the side b is

- **A** 6
- **B** 12
- **C** $3\sqrt{2}$
- **D** $6\sqrt{2}$

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7 The principal value of $\arctan \sqrt{3}$ is

- **A** $\frac{\pi}{6}$
- **B** $\frac{\pi}{4}$
- **C** $\frac{\pi}{2}$
- **D** $\frac{\pi}{3}$

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8 The principal value of $\arccos \frac{1}{2}$ is

- A $\frac{\pi}{6}$
- B $\frac{\pi}{3}$
- C $\frac{\pi}{4}$
- D $\frac{2\pi}{3}$

Understand It with Pulse | Flag a mistake

9 The value of $\cos \pi$ is

ANSWER _____

Understand It with Pulse | Flag a mistake

10 The value of $2 \sin \frac{\pi}{6}$ is

ANSWER _____

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ANSWER KEY

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

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