ALASKA PRECALCULUS · UNIT 2 · 10 QUESTIONS

Trigonometry — 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 $\sin\theta < 0$ and $\cos\theta > 0$, then θ is in quadrant**

- A I
- B II
- C III
- D IV

Understand It with Pulse | Flag a mistake

2 **For any angle x where $\cos x \neq 0$, $1 + \tan^2 x$ equals**

- A $\sec^2 x$
- B $\csc^2 x$
- C $\sin^2 x$
- D $\cos^2 x$

Understand It with Pulse | Flag a mistake

3 The amplitude of $y = 2 \cos 3x + 1$ is

- **A** 3
- **B** 2
- **C** 1
- **D** 6

Understand It with Pulse | Flag a mistake

4 The period of $y = \cos \frac{x}{2}$ is

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

Understand It with Pulse | Flag a mistake

5 **The solution of $\tan x = 1$ for $0 \le x < \pi$ is**

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

Understand It with Pulse | Flag a mistake

6 **In a triangle, A = 30°, B = 45°, a = 12. Using the law of sines, b is**

- **A** $12\sqrt{2}$
- **B** 24
- **C** $6\sqrt{2}$
- **D** 12

Understand It with Pulse | Flag a mistake

7 **The reference angle for 320° equals**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **The value of sin 270° equals**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **For any angle x, cos(-x) equals**

A -cos x

B sin x

C -sin x

D cos x

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10 **The midline of y = -sin x + 4 is**

A y = -1

B y = 1

C y = 4

D y = -4

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. D
2. A
3. B
4. C
5. D
6. A
7. 40
8. -1
9. D
10. C

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