NORTHWEST TERRITORIES PRE-CALCULUS 12 (MPREC12) · UNIT C · 10 QUESTIONS

Trigonometric Functions and Identities — 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 The exact value of $\cos \frac{\pi}{6}$ is

- **A** 1
- **B** $\frac{1}{2}$
- **C** 0
- **D** $\frac{\sqrt{3}}{2}$

Understand It with Pulse | Flag a mistake

2 The exact value of $\tan \frac{\pi}{3}$ is

- A $\frac{1}{\sqrt{3}}$
- B 1
- C $\sqrt{3}$
- D 0

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3 The identity $\sin^2 \theta + \cos^2 \theta$ equals

- A 0
- B 1
- C $\tan \theta$
- D 2

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4 If $\cos\theta = \frac{5}{13}$ and $\sin\theta > 0$, then $\sin\theta$ is

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

B $\frac{12}{13}$

C $\frac{5}{12}$

D $\frac{13}{12}$

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5 The solutions of $\sin x = \frac{1}{2}$ are for x from 0 to 2π, not including 2π

A $\frac{5\pi}{6}, \frac{11\pi}{6}$

B $\frac{\pi}{3}, \frac{2\pi}{3}$

C $\frac{\pi}{6}, \frac{7\pi}{6}$

D $\frac{\pi}{6}, \frac{5\pi}{6}$

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6 **The solutions of cos x = 0 are for x from 0 to 2π, not including 2π**

- **A** $\frac{\pi}{4}, \frac{5\pi}{4}$
- **B** 0, π
- **C** $\frac{\pi}{2}, \frac{3\pi}{2}$
- **D** $\frac{\pi}{3}, \frac{5\pi}{3}$

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7 **For y = 2 sin x - 3, the minimum value is**

ANSWER _____

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8 **The function $y = \cos\left(x - \frac{\pi}{2}\right)$ equals**

A -sin x

B sin x

C cos x

D -cos x

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9 **The value of sin π is**

A $\frac{1}{2}$

B 1

C -1

D 0

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10 **For y = 3 sin(2x) + 1, the midline is**

A y = 3

B y = 1

C y = 0

D y = 2

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ANSWER KEY

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

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