KENTUCKY PRECALCULUS · KENTUCKY

# Kentucky Precalculus

## Practice Test

### Unit 2: Trigonometry

10 Questions

Original practice test based on the Kentucky curriculum. Work through each question, then check your answers at the end.

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.

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Question 1

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

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

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

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

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

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Question 2

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

A) $2\pi$

B) $\pi$

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

D) $4\pi$

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Question 3

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

A) 1

B) 3

C) 4

D) 2

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Question 4

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

A) $y = 0$

B) $y = 1$

C) $y = 3$

D) $y = 4$

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Question 5

The value of $\csc 30^\circ$ is ____.

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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) $\frac{9}{25}$

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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) $\frac{6}{8}$

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Question 8

An angle coterminal with $400^\circ$ between $0^\circ$ and $360^\circ$ is

A) $40^\circ$

B) $140^\circ$

C) $220^\circ$

D) $320^\circ$

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Question 9

The value of $\sin 270^\circ$ is

A) 1

B) 0

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

D) $-1$

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Question 10

The value of $\tan 0^\circ$ is ____.

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# ANSWER KEY

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

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