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

- **A** $\frac{12}{13}$
- **B** $\frac{5}{12}$
- **C** $-\frac{12}{13}$
- **D** $\frac{13}{12}$

Understand It with Pulse | Flag a mistake

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

- 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

- 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**

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

Understand It with Pulse | Flag a mistake

5 **The value of $\csc 30°$ is ____.**

ANSWER _____

Understand It with Pulse | Flag a mistake

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 $\frac{9}{25}$

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

- A $\frac{6}{10}$
- B $\frac{8}{10}$
- C $\frac{10}{8}$
- D $\frac{6}{8}$

Understand It with Pulse | Flag a mistake

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

- A 40°
- B 140°
- C 220°
- D 320°

Understand It with Pulse | Flag a mistake

9 **The value of sin 270° is**

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

Understand It with Pulse | Flag a mistake

10 **The value of tan 0° is ____.**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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