MICHIGAN 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 -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 $\pi/2$
- 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 $\frac{9}{25}$

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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°

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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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