

MATH 261 - Trigonometric Functions: Practice Exam

(Multiple Choice)

Which of the following two trigonometric statements is correct? Justify.

1. Suppose θ is an angle for which $\sin \theta = 1$ and $\cos \theta = 1$. Is θ the measure of an angle?
 - (a) Yes
 - (b) No
 - (c) Yes
 - (d) No
2. The value of an angle is called the cotangent if it is the ratio of the adjacent side to the opposite side.
 - (a) Yes
 - (b) No
 - (c) Yes
 - (d) No
3. Every trigonometric function has a period.
 - (a) Yes
 - (b) No
 - (c) Yes
 - (d) No
4. Which of the following properties do the sine and cosine functions have?
 - (a) Periodicity
 - (b) Boundedness
 - (c) Injectivity
 - (d) Surjectivity
5. Which of the following is a true statement?
 - (a) $\sin(\theta + 2\pi) = \sin \theta$
 - (b) $\cos(\theta + 2\pi) = \cos \theta$
 - (c) $\tan(\theta + 2\pi) = \tan \theta$
 - (d) $\cot(\theta + 2\pi) = \cot \theta$
6. Which of the following is a true statement?
 - (a) $\sin(\theta + \pi) = \sin \theta$
 - (b) $\cos(\theta + \pi) = \cos \theta$
 - (c) $\tan(\theta + \pi) = \tan \theta$
 - (d) $\cot(\theta + \pi) = \cot \theta$
7. Which of the following is a true statement?
 - (a) $\sin(\theta + \frac{\pi}{2}) = \cos \theta$
 - (b) $\cos(\theta + \frac{\pi}{2}) = \sin \theta$
 - (c) $\tan(\theta + \frac{\pi}{2}) = \cot \theta$
 - (d) $\cot(\theta + \frac{\pi}{2}) = \tan \theta$
8. Which of the following is a true statement?
 - (a) $\sin(\theta + \frac{\pi}{4}) = \cos \theta$
 - (b) $\cos(\theta + \frac{\pi}{4}) = \sin \theta$
 - (c) $\tan(\theta + \frac{\pi}{4}) = \cot \theta$
 - (d) $\cot(\theta + \frac{\pi}{4}) = \tan \theta$



- (a) $f(x) = 2 \sin(2x)$
- (b) $f(x) = \sin(2x)$

- (c) $f(x) = 2 \sin(x)$
- (d) $f(x) = \sin(x)$

Mcr3u Trigonometric Functions Test

JL Elias

A decorative red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the author's name.

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