

Directions: Select the letter of the correct answer for each question below.

- 1) Which of the following explains why $\tan\left(\frac{\pi}{2}\right)$ is undefined?
 - (a) Because the sine of $\frac{\pi}{2}$ to the cosine of $\frac{\pi}{2}$ are equal
 - (b) Because the ratio of the sine of $\frac{\pi}{2}$ to the cosine of $\frac{\pi}{2}$ is 0
 - (c) Because the ratio of the sine of $\frac{\pi}{2}$ to the cosine of $\frac{\pi}{2}$ is not defined in the set of real numbers
 - (d) None of the above

- 2) Which of the following angles is coterminal to -315 degrees?
 - (a) $\frac{\pi}{4}$ radians
 - (b) $-\frac{\pi}{4}$ radians
 - (c) $\frac{\pi}{2}$ radians
 - (d) π radians

- 3) At what point on the unit circle does the terminal side of the angle $\frac{5\pi}{6}$ radians coincide?
 - (a) $\left(-\frac{\sqrt{3}}{2}, \frac{1}{2}\right)$
 - (b) $\left(-\frac{1}{2}, -\frac{\sqrt{3}}{2}\right)$
 - (c) $\left(-\frac{\sqrt{3}}{2}, -\frac{1}{2}\right)$
 - (d) $(-1, 0)$

- 4) Which of the following is the value of the cosecant of $\frac{\pi}{2}$ rad?
 - (a) 1
 - (b) 0
 - (c) Undefined
 - (d) Cannot be determined



Unit Circle

Practice Questions

5) Suppose that θ is a central angle of a unit circle. If $\cos \theta = -\frac{\sqrt{2}}{2}$. Which of the following is θ ?

- (a) 45°
- (b) 135°
- (c) 270°
- (d) 315°



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To God be the glory!