PRE - CALCULUS

Quiz # 5

Name: _____ Date: _____ Score: _____

I. MULTIPLE CHOICES: Encircle the letter of the best answer. If the answer cannot be found from the choices, then write your own answer.

1. Which of the following is the value of tan 450°?

a. 0 c. -1

b. 1 d. undefined

2. If (-2, 2) is on the terminal side of an angle θ in standard position, then what is cos θ?

a. $\frac{\sqrt{2}}{2}$ c. $\frac{-1}{2}$

b. $\frac{1}{2}$ d. $\frac{-\sqrt{2}}{2}$

3. It is an angle in standard position which terminal side lies on one of the coordinate axes.

a. reference angle c. acute angle

b. right angle d. quadrantal angle

4. Which of the following is the reference angle of $\frac{4\pi}{5}$?

a. $\frac{5\pi}{4}$ c. $\frac{\pi}{4}$

b. $\frac{6\pi}{5}$ d. $\frac{\pi}{5}$

5. Which of the following is NOT true about a reference angle?

a. it is always acute

b. its measure is 180 – θ in Quadrant II

c. its measure is θ – 180 in Quadrant III

d. its terminal side is always the x-axis

II. Each given point lies on the terminal side of an angle θ in standard position. Find the values of the six trigonometric functions of θ.

1. (1, -2)

2. (3, -1)

III. Find the exact value of each trigonometric function, if defined. If not defined, write ***UNDEFINED*****.**

1. cos π

2. tan 810°

3. sec 2π

IV. Sketch each angle and find its reference angle.

1. 145° 2. $\frac{-5\pi}{4}$

3. 220° 4. $\frac{7\pi}{4}$