MAC1114 Trigonometry
5.3 Trigonometric Functions of Any Angle. Practice 03.

A point on the terminal side of angle θ is given. Find the exact value of the indicated trigonometric function of θ.

1) (18, 24) Find sin θ. 1) _____

A) $\frac{4}{3}$ B) $\frac{4}{5}$ C) $\frac{3}{4}$ D) $\frac{3}{5}$

2) (-3, -4) Find sec θ. 2) _____

A) $\frac{5}{4}$ B) $\frac{4}{3}$ C) $-\frac{3}{5}$ D) $-\frac{5}{3}$

Let θ be an angle in standard position. Name the quadrant in which the angle θ lies.

3) sec θ < 0, tan θ < 0 3) _____

A) quadrant IV B) quadrant I C) quadrant II D) quadrant III

Find the exact value of the indicated trigonometric function of θ.

4) cos θ = $\frac{2}{9}$, tan θ < 0 Find sin θ. 4) _____

A) $-\sqrt{77}$ B) $-\frac{9}{2}$ C) $-\frac{\sqrt{77}}{9}$ D) $-\frac{\sqrt{77}}{2}$

Find the reference angle for the given angle.

5) 27° 5) _____

A) 117° B) 63° C) 27° D) 153°

6) 432° 6) _____

A) 162° B) 108° C) 18° D) 72°

7) $\frac{5\pi}{4}$ 7) _____

A) $\frac{3\pi}{4}$ B) $\frac{\pi}{4}$ C) $\frac{5\pi}{4}$ D) $\frac{\pi}{8}$

8) 5.2 8) _____

A) 2.06 B) 1.08 C) -2.06 D) -1.08

9) -17° 9) _____

A) 163° B) 17° C) 73° D) 107°

Use reference angles to find the exact value of the expression.

10) sec $\frac{5\pi}{4}$ 10) _____

A) $\frac{\sqrt{2}}{2}$ B) $-\sqrt{2}$ C) -2 D) $-\frac{2\sqrt{3}}{3}$

Answer Key
Testname: PRACTICE03

1) B
2) D
3) C
4) C
5) C
6) D
7) B
8) B
9) B
10) B