

Quiz#1**Multiple Choice**

Identify the choice that best completes the statement or answers the question.

- _____ 1. Determine the quadrant in which an angle, θ , lies if $\theta = \frac{5\pi}{4}$.
- 4th quadrant
 - 2nd quadrant
 - 1st quadrant
 - 3rd quadrant
- _____ 2. Determine two coterminal angles (one positive and one negative) for $\theta = \frac{3\pi}{4}$.
- $\frac{13\pi}{4}, -\frac{11\pi}{4}$
 - $\frac{9\pi}{4}, -\frac{5\pi}{8}$
 - $\frac{7\pi}{4}, -\frac{9\pi}{4}$
 - $\frac{3\pi}{2}, -\frac{5\pi}{12}$
 - $\frac{11\pi}{4}, -\frac{5\pi}{4}$
- _____ 3. Find (if possible) the supplement of $\frac{11\pi}{13}$.
- $\frac{11\pi}{26}$
 - $\frac{12\pi}{13}$
 - $\frac{2\pi}{13}$
 - $\frac{5\pi}{13}$
 - not possible
- _____ 4. Rewrite 675° in radian measure as a multiple of π .
- $\frac{15\pi}{4}$
 - $\frac{15\pi}{4}$
 - $\frac{45\pi}{2}$
 - $\frac{15\pi}{2}$
 - $\frac{5\pi}{2}$

- _____ 5. Rewrite $-\frac{7\pi}{18}$ in degree measure.
- -70°
 - -105°
 - -140°
 - -35°
 - -47°
- _____ 6. Find the length of the arc, S , on a circle of radius 3 meters intercepted by a central angle of 210° . Round to two decimal places.
- $S = 11.00$ meters
 - $S = 14.66$ meters
 - $S = 21.99$ meters
 - $S = 7.33$ meters
 - $S = 8.80$ meters
- _____ 7. Find the radian measure of the central angle of the circle of radius 6 centimeters that intercepts an arc of length 32 centimeters.
- $\theta = \frac{16}{3}$
 - $\theta = \frac{2}{3}$
 - $\theta = \frac{3}{16}$
 - $\theta = \frac{32}{7}$
 - $\theta = \frac{6}{5}$
- _____ 8. Find the area of the sector of the circle with radius 2 meters and central angle $\frac{11\pi}{6}$.
- $A = \frac{11\pi}{6} \text{ m}^2$
 - $A = \frac{121\pi}{3} \text{ m}^2$
 - $A = \frac{11\pi}{3} \text{ m}^2$
 - $A = \frac{11\pi}{4} \text{ m}^2$
 - $A = \frac{22\pi}{3} \text{ m}^2$

Quiz#1
Answer Section

MULTIPLE CHOICE

- | | | |
|-----------|--------|---|
| 1. ANS: D | PTS: 1 | OBJ: Determine in which quadrant an angle lies |
| 2. ANS: E | PTS: 1 | OBJ: Determine two coterminal angles (radians) |
| 3. ANS: C | PTS: 1 | OBJ: Find the complement of an angle (radians) |
| 4. ANS: B | PTS: 1 | OBJ: Convert degree measure to radian measure |
| 5. ANS: A | PTS: 1 | OBJ: Convert radian measure to degree measure |
| 6. ANS: A | PTS: 1 | OBJ: Find length of arc given radius and central angle |
| 7. ANS: A | PTS: 1 | OBJ: Find measure of central angle given radius and arc length |
| 8. ANS: C | PTS: 1 | OBJ: Find the area of a sector given the radius and central angle |

A 5.

 D 1.

 A 6.

 E 2.

 A 7.

 C 3.

 C 8.

 B 4.