King Fahd University of Petroleum and Minerals
Prep-Year Math Program
Math 002 - Term 132
Recitation (6.1)

Question 1:

(a): Convert $-315°$ to radian measure.   **Answer:** $-315° = -\dfrac{7\pi}{4}$

(b): Convert $\dfrac{9\pi}{5}$ radians to degree measure. **Answer:** $\dfrac{9\pi}{5} = 324°$

Question 2: Find the smallest positive angle coterminal with the angle $\theta = -\dfrac{23\pi}{8}$.

Answer: $\dfrac{9\pi}{8}$

Question 3: Find the reference angle of the following angles

(a): $\theta = \dfrac{13\pi}{8}$ **Answer:** $\dfrac{3\pi}{8}$

(b): $\theta = 10$ **Answer:** $10 - 3\pi$

Question 4: The length s of the arc that subtends the central angle $\theta = 35° \, 30'$ in a circle of diameter 720 centimeters is

A) 71π cm
B) 36π cm
C) 180π cm
D) 90π cm
E) 31π cm

Question5

Which one of the following is NOT conterminal with $20°$?

A) $340°$

B) $380°$

C) $740°$

D) $-700°$

E) $-340°$