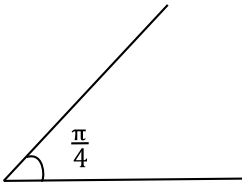


Questions Angles Arcs And Trig

1) In the diagram below, angle X is measured in radians. What is angle X in degrees? *(no calculator)*

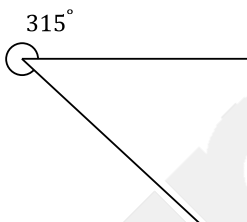


- A) 30°
- B) 60°
- C) 45°
- D) 55°

2) What is the value of $\cos 225^\circ$? *(no calculator)*

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

3) The angle below has a measure of 315° degrees. What is the measure of this angle in radians? *(no calculator)*



- A) $\frac{\pi}{4}$
- B) $\frac{5\pi}{4}$
- C) $\frac{7\pi}{4}$
- D) $\frac{5\pi}{6}$

4) If the measure of $\theta = \frac{4\pi}{6}$, then what is the measure of θ in degrees? *(no calculator)*

- A) 10°
- B) 120°
- C) 60°
- D) 90°

5) The measure of an angle is $\frac{11\pi}{6}$. What is the value of the tan of this angle? *(no calculator)*

- A) 1
- B) undefined
- C) $\frac{\sqrt{3}}{2}$
- D) $-\frac{\sqrt{3}}{3}$

6) Which of the following trig functions are equal to the same as $\cos 90^\circ$? *(no calculator)*

- A) $\sin(60^\circ)$
- B) $\sin(120^\circ)$
- C) $\sin(\frac{7\pi}{6})$
- D) $\sin(\pi)$

7) What is the value of $\tan 60^\circ$? *(no calculator)*

- A) 1
- B) $\frac{\sqrt{3}}{2}$
- C) $\sqrt{3}$
- D) $\sin(\pi)$

8) Which of the following has a value of undefined? *(no calculator)*

- A) $\tan(90^\circ)$
- B) $\cos(\frac{\pi}{6})$
- C) $\sin(\frac{7\pi}{6})$
- D) $\tan(225^\circ)$

Questions Angles Arcs And Trig

9) If the measure of $\theta = 60^\circ$, then what is the measure of θ in radians? (*no calculator*)

- A) $\frac{2\pi}{3}$
- B) $\frac{\pi}{3}$
- C) $\frac{7\pi}{6}$
- D) $\frac{\pi}{6}$

10) What is the value of $\sin \frac{3\pi}{2}$? (*no calculator*)

- A) $\frac{\sqrt{3}}{2}$
- B) 0
- C) - 1
- D) undefined