

11X MOE – C – Trigonometric Functions (sol)

OBJECTIVE EXERCISES

ANGLES

1. If the initial side is overlapping on the terminal side, then angle is _____

- a) 0° b) 180°
c) 90° d) 270°

Answer: a

Explanation: The angle is formed if we start to rotate from initial side till terminal side comes. If they both overlap then angle is said to be 0° .

2. If we start to rotate and after completing one revolution again initial side overlap with terminal side, then the angle formed is _____

- a) 0° b) 180°
c) 90° d) 360°

Answer: d

Explanation: The angle is formed if we start to rotate from initial side till terminal side comes. If we start to rotate and after completing one revolution again initial side overlap with terminal side, then the angle formed is 360° .

3. 1 radian is _____

- a) $54^\circ 48'$ b) $57^\circ 16'$
c) 180° d) $17^\circ 46'$

Answer: b

Explanation: We know, π radian = 180 degree
1 radian = $180/\pi$ degree = $57.27^\circ = 57^\circ$
(0.27×60)' = $57^\circ 16'$.

4. 1 degree is _____ radian.

- a) π b) 0.046
c) 0.1746 d) 0.01746

Answer: d

Explanation: 180 degree = π radian
1 degree = $\pi/180$ radian = 0.01746 radian.

5. 4 radians = _____

- a) 720° b) $240^\circ 51' 53''$
c) $229^\circ 10' 59''$ d) $233^\circ 11' 48''$

Answer: c

Explanation: We know, π radians = 180 degrees
1 radian = $180/\pi$ degrees

4 radians = $720/\pi$ degrees = $229.183^\circ = 229^\circ$
(0.183×60)' = $229^\circ (10.98)' = 229^\circ 10' 59''$.

6. If angle of arc is 60° and the length of arc is 20 cm. Find the radius of the circle from which arc is intercepted.

- a) 18.08 cm b) 17.07 cm
c) 19.09 cm d) 18 cm

Answer: c

Explanation: 180 degree = π radian
1 degree = $\pi/180$ radians
 60 degrees = $60 \times \pi/180$ radians = $\pi/3$ radians
Angle = Arc length / Radius
 $\pi/3 = 20/\text{Radius} \Rightarrow \text{Radius} = 60/\pi = 19.09$ cm.

7. If length of arc is 40 cm and radius of circle of arc is 10 cm then find the angle made by the arc.

- a) 720° b) $240^\circ 51' 53''$
c) $229^\circ 10' 59''$ d) $233^\circ 11' 48''$

Answer: c

Explanation: We know, Angle = Arc length / Radius
Angle = $40/10 = 4$ radians
 π radians = 180 degrees
1 radian = $180/\pi$ degrees
4 radians = $720/\pi$ degrees = $229.183^\circ = 229^\circ$
(0.183×60)' = $229^\circ (10.98)' = 229^\circ 10' 59''$.

8. The second hand of the watch is 2 cm long. How far the tip will move in 40 seconds?

- a) 6.28 cm b) 12.56 cm
c) 3.14 cm d) 1.57 cm

Answer: b

Explanation: Radius of circle = 2 cm
In 60 seconds, angle covered by second hand is 360°
In 40 seconds, angle covered by second hand is $360^\circ \times 4/6 = 240^\circ$
 $240^\circ = 240^\circ$
Angle = Arc length / Radius
 $240^\circ \pi/180 = \text{Arc length}/2$
Arc length = $8 \pi/3 = 12.56$ cm.

Trigonometric Functions C Scope Answer Key

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