



MATHS

BOOKS - UNITED BOOK HOUSE

Trigonometry : Concept of Measurement of Angle

Exercise

1. Multiple Choice Questions (MCQ) Circular
measure of $11^{\circ} 15'$ is

A. $\frac{\Pi^c}{16}$

B. $\frac{11\Pi^c}{16}$

C. $\frac{15\Pi^c}{16}$

D. $\frac{\Pi^c}{12}$.

Answer:



Watch Video Solution

2. Sexagesimal value of $\frac{5\Pi^c}{12}$ is

A. 65°

B. 75°

C. 85°

D. 95°

Answer:



Watch Video Solution

3. $3750'' =$

A. $3^\circ 7' 50''$

B. $37^\circ 50'$

C. $1^{\circ} 2' 30''$

D. $1^{\circ} 23'$.

Answer:



Watch Video Solution

4. Complementary angle of $27^{\circ} 27' 27''$ is

A. $62^{\circ} 32' 33''$

B. $62^{\circ} 33' 32''$

C. $62^{\circ} 23' 33''$

D. $62^{\circ} 33$.

Answer:



Watch Video Solution

5. $85.12^{\circ} =$

A. $85^{\circ} 1' 2$

B. $85^{\circ} 12'$

C. $85^{\circ} 7' 12$

D. none of these.

Answer:



Watch Video Solution

6. The minute hand of a clock rotates in 45 minutes an angle equal to

A. $\frac{\Pi^c}{2}$

B. $\frac{3\Pi^c}{2}$

C. $\frac{3\Pi^c}{4}$

D. $\frac{\Pi^c}{4}$.

Answer:



Watch Video Solution

7. If the arc of length 330cm. Of a circle makes an angle. 42° at the centre, then the radius of the circle is

A. 450cm.

B. 540cm.

C. 242cm.

D. 422cm.

Answer:



Watch Video Solution

8. Two unequal arcs of a circle make two angles at the centre which are in the ratio 3 : 5 and the greater angle in degree is 75° , then the circular measure of smaller angle is

A. $\frac{\Pi^c}{2}$

B. $\frac{\Pi^c}{3}$

C. $\frac{\Pi^c}{4}$

D. $\frac{\Pi^c}{6}$.

Answer:



Watch Video Solution

9. In two circles two arc of same length makes an angle 30° and 60° respectively at the centre. The ratio of the radii of two circle is

A. 3 : 2

B. 1 : 2

C. 2 : 3

D. 2 : 1.

Answer:



Watch Video Solution

10. An arc of a circle of diameter 280cm. Makes an angle 27° at the centre. The length of the arc is

A. 68cm.

B. 66cm.

C. 64cm.

D. 60cm.

Answer:



Watch Video Solution

11. In circular measure, the value of the angle

$11^\circ 15'$ is ___

A. $\frac{\Pi^c}{16}$

B. $\frac{\Pi^c}{8}$

C. $\frac{\Pi^c}{4}$

D. $\frac{\Pi^c}{12}$

Answer:



Watch Video Solution

12. In a triangle ABC , $\angle ABC = 75^\circ$ and $\angle ACB = \frac{\Pi^c}{4}$. The circular measure of $\angle BAC$ is_____

A. $5\frac{\pi}{12}$

B. $\frac{\pi}{3}$

C. $\frac{\pi}{6}$

D. $\frac{\pi}{2}$

Answer:



Watch Video Solution

13. The circular measure of an angle of an isosceles triangle is $5\frac{\pi}{9}$. Circular measure of one of the other angles must be ___

A. $5\frac{\pi}{18}$

B. $5\frac{\pi}{9}$

C. $2\frac{\pi}{9}$

D. $4\frac{\pi}{9}$

Answer:



Watch Video Solution

14. The degree measure of 1 radian is ___

A. $57^{\circ} 61' 22''$

B. $57^{\circ} 16' 22$

C. $57^{\circ} 32' 16$

D. $57^{\circ} 32' 16$

Answer:



Watch Video Solution

15. If the sum of two angles is 135° and their difference is $\frac{\pi}{2}$, then determine the sexagesimal and circular value of two angles.

A. $2\frac{\pi}{3}$

B. $3\frac{\pi}{5}$

C. $5\frac{\pi}{12}$

D. $\frac{\pi}{3}$

Answer:



Watch Video Solution

16. Which is correct relation?

A. $1^\circ < 1^\circ$

B. $1^\circ > 1^\circ$

C. $1^\circ = 1^\circ$

D. $1^\circ = \frac{1}{90}$ right angle

Answer:



Watch Video Solution

17. In formula $s = r\theta$, θ is measured in ____

A. sexagesimal system

B. circular system

C. in both system

D. none of these.

Answer:



Watch Video Solution

18. The measures of an angle are D and R in degree and radian respectively. Then R/D is equal_____

A. $\frac{\Pi}{180}$

B. $\frac{180}{\pi}$

C. $\frac{22}{7}$

D. none of these.

Answer:



Watch Video Solution

19. The ratio of three angles of a triangle is 2 : 5 : 3. The circular measure of greatest angle is _____

A. $\frac{\pi}{5}$

B. $3\frac{\pi}{10}$

C. $\frac{\pi}{2}$

D. π

Answer:



Watch Video Solution

20. If placed in standard position, an angle of $7\frac{\pi}{4}$ radians has the same terminal side as angle of _____

A. -315°

B. -135°

C. -45°

D. -15°

Answer:



Watch Video Solution

21. A wedge shaped slice is cut from a circular pizza. The radius of the pizza is 8 inches and the rounded edge of crust of the slice

measures 6.4 inches. What is the angle of the pointed end of the pizza slice, in radians to the nearest tenth?

A. 0.8

B. 1.6

C. 8

D. 51.2

Answer:



Watch Video Solution

22. if $(3x-2y):(5x-7y)=5:3$ then, find $x:y$.



[Watch Video Solution](#)

23. In a circle with a radius of a 3 centimetres, what is the length, in centimeters, of an arc intercepted by a central angle of 2 radians?

- A. 3
- B. 4
- C. 6
- D. 12

Answer:



Watch Video Solution

24. Express in radians, 235° is equivalent to _____

A. $36\frac{\pi}{47}$

B. $47\frac{\pi}{36}$

C. $\frac{\pi}{235}$

D. 235π

Answer:



Watch Video Solution