Trigonometric Functions - Class XI

Related Questions with Solutions

Questions

Quetion: 01

A circular wire of radius 7 cm is cut and bend again into an arc of a circle of radius 12 cm. The angle subtended by the arc at the centre is

A. 50°

B. 210°

C. 100°

D. 60°

Solutions

Solution: 01

Circumference of a circular wire of radius 7 cm $= 2\pi \times 7 = 14\pi$

As we know $\theta = \frac{l}{r} \Rightarrow \theta = \frac{14\pi}{12} = \frac{7\pi \times 180^\circ}{6\pi} = 210^\circ$.

Correct Options

Answer:01

Correct Options: B