

Geometry of Circles

Students who successfully complete this primer will be able to:

- Calculate the area and circumference of a circle.
- Apply the relationship between the radius of a circle and an arc length.

Radius, radius, and arc length

In many physics applications, it is necessary to convert between the distance from the center of a circle, the radius r , and the distance along the circumference, called the arc length s . These two parameters are related by the angle θ swept out from the starting point of the arc, typically defined as the *sector*, and the *central angle* (Figure 2).

Scientists and mathematicians typically measure the angle θ in radians rather than degrees, which is defined as

$$\text{1 radian} = \frac{\pi}{180} \approx 57.3^\circ$$

The second formula is another way to write the definition of circumference with π being an arc the constant of entire circle and r being the radius of the circle. That means that 2π must be the angle of the entire circle.

$$2\pi \text{ radians} = 360^\circ$$

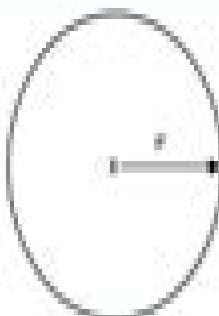
In fact, the radius of a circle can be thought of as a conversion factor between the angular position θ and the arc length s :

$$1 \text{ radian} = 1 \text{ radius} \left(\frac{2\pi}{360^\circ} \right) = 0.1745 \text{ m}$$

Click here to watch a video that walks through the geometry of circles, including a worked-out example, that covers the questions that follow.



Part C



Part C - Determining arc length

What is the length of an arc on a circle of radius 30 if the angle $\theta = 60^\circ$?

Express your answer (in m) to three significant figures.

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Physics for Scientists and Engineers with Modern Physics Randall Dewey Knight,David Pritchard,2004

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