

## 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, radians, 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  $\theta$  swept out from the starting point of the arc, typically defined as the  $x$ -axis, and the end point ([Figure 1](#)).

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

$$\theta(\text{radians}) = \frac{s}{r} \rightarrow s = r\theta$$

This second formula is another way to write the definition of circumference with  $s$  being an arc that comprises an entire circle and  $r$  being the radius of the circle. That means that  $2\pi$  must be the angle of the entire circle:

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

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

$$1 \text{ radius} = 1 \text{ radius} \left( \frac{2\pi \text{ radians}}{1 \text{ full circle}} \right) = 2\pi \theta$$

[Click here](#) to watch a video that walks through the geometry of circles, including a worked-out example. Then answer the questions that follow.



### Part C - Determining arc length

What is the length of an arc on a circle of radius 30.0 cm when  $\theta = 60^\circ$ ?

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

• [Hint](#)

s =cm

# Mastering Physics

**Eugenia Etkina, Michael Gentile, Alan  
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