

### 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 connect 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  $(\cos\theta, \sin\theta)$ .

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

$$1 \text{ (radian)} = \left\{ \frac{1}{r} \times s = \theta \right\}$$

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

$$2\pi \text{ (radians)} = 2\pi \text{ (radius)} = 2\pi r$$

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

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

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



Figure 1 1 of 1



#### Part C - Determining arc length

What is the length of an arc on a circle of radius 20.0 cm when  $\theta = 60^\circ$ ?

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

• Hint

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🔍
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📏
?

s =  cm

# Mastering Physics Answer Guide

**CH Cherryholmes**



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