

### 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:

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

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:

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

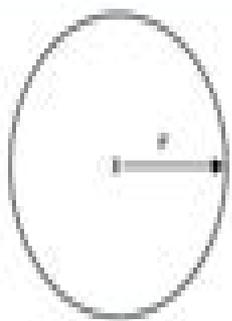
In fact, the radius of a circle can be thought of as a conversion factor between the angular position  $\theta$  and the arc length  $s$ :

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

[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 2



#### 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

✖ ✕ ↶ ↷ ↺ ↻

s =  cm

# Mastering Physics Answers Chapter 21

**Jessica J Manson**



**Mastering Physics Answers Chapter 21:**

## Unveiling the Magic of Words: A Overview of "**Mastering Physics Answers Chapter 21**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Mastering Physics Answers Chapter 21**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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