

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 θ 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 θ in radians rather than degrees, which is defined as

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

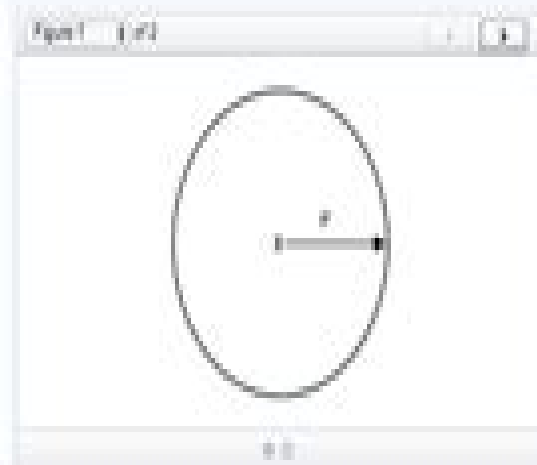
This second formula is another way to write the definition of circumference with s being an arc that comprises an entire circle and r being the radius of the circle. That means that 2π must be the angle of the entire circle:

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

In fact, the radius of a circle can be thought of as a conversion factor between the angular position θ 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 Answers Chapter6

Janet Belsky



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Table of Contents Mastering Physics Answers Chapter6

1. Understanding the eBook Mastering Physics Answers Chapter6
 - The Rise of Digital Reading Mastering Physics Answers Chapter6
 - Advantages of eBooks Over Traditional Books
2. Identifying Mastering Physics Answers Chapter6
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mastering Physics Answers Chapter6
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mastering Physics Answers Chapter6
 - Personalized Recommendations
 - Mastering Physics Answers Chapter6 User Reviews and Ratings
 - Mastering Physics Answers Chapter6 and Bestseller Lists
5. Accessing Mastering Physics Answers Chapter6 Free and Paid eBooks
 - Mastering Physics Answers Chapter6 Public Domain eBooks
 - Mastering Physics Answers Chapter6 eBook Subscription Services
 - Mastering Physics Answers Chapter6 Budget-Friendly Options
6. Navigating Mastering Physics Answers Chapter6 eBook Formats

- ePub, PDF, MOBI, and More
- Mastering Physics Answers Chapter6 Compatibility with Devices
- Mastering Physics Answers Chapter6 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mastering Physics Answers Chapter6
 - Highlighting and Note-Taking Mastering Physics Answers Chapter6
 - Interactive Elements Mastering Physics Answers Chapter6
- 8. Staying Engaged with Mastering Physics Answers Chapter6
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mastering Physics Answers Chapter6
- 9. Balancing eBooks and Physical Books Mastering Physics Answers Chapter6
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mastering Physics Answers Chapter6
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mastering Physics Answers Chapter6
 - Setting Reading Goals Mastering Physics Answers Chapter6
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mastering Physics Answers Chapter6
 - Fact-Checking eBook Content of Mastering Physics Answers Chapter6
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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