

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 θ 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 θ 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 2π 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 θ 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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🔄
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?

$s =$ cm

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Table of Contents Mastering Physics Chapter 2solutions

1. Understanding the eBook Mastering Physics Chapter 2solutions
 - The Rise of Digital Reading Mastering Physics Chapter 2solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Mastering Physics Chapter 2solutions
 - 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 Chapter 2solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mastering Physics Chapter 2solutions

- Personalized Recommendations
 - Mastering Physics Chapter 2solutions User Reviews and Ratings
 - Mastering Physics Chapter 2solutions and Bestseller Lists
5. Accessing Mastering Physics Chapter 2solutions Free and Paid eBooks
 - Mastering Physics Chapter 2solutions Public Domain eBooks
 - Mastering Physics Chapter 2solutions eBook Subscription Services
 - Mastering Physics Chapter 2solutions Budget-Friendly Options
 6. Navigating Mastering Physics Chapter 2solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - Mastering Physics Chapter 2solutions Compatibility with Devices
 - Mastering Physics Chapter 2solutions Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mastering Physics Chapter 2solutions
 - Highlighting and Note-Taking Mastering Physics Chapter 2solutions
 - Interactive Elements Mastering Physics Chapter 2solutions
 8. Staying Engaged with Mastering Physics Chapter 2solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mastering Physics Chapter 2solutions
 9. Balancing eBooks and Physical Books Mastering Physics Chapter 2solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mastering Physics Chapter 2solutions
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Mastering Physics Chapter 2solutions
 - Setting Reading Goals Mastering Physics Chapter 2solutions
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Mastering Physics Chapter 2solutions

- Fact-Checking eBook Content of Mastering Physics Chapter 2solutions
 - 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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