

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

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

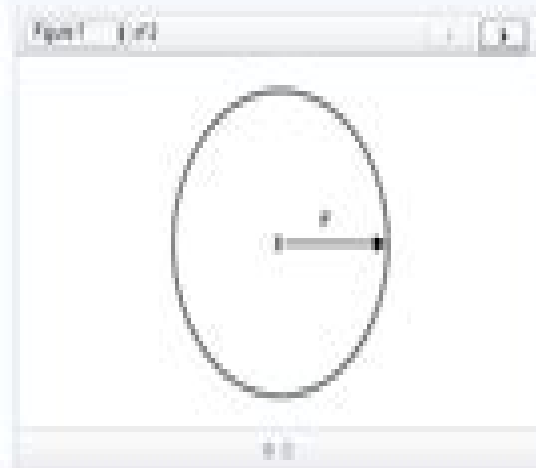
This second formula is another way to write the definition of circumference with s being an arc that comprises an entire circle and r being the radius of the circle. That means that 2π must be the angle of the entire circle:

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

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 Chapter9

**Kelvin Sung,Jebediah
Pavleas,Fernando Arnez,Jason Pace**

Mastering Physics Answers Chapter9:

Mastering Physics Martin Harrison, Frank McKim, 1999-11-11 This new edition of Mastering Physics has been completely updated and rewritten to give all the information needed to learn and master the essentials of physics It is a self contained clearly explained course for individual study or classroom use which requires no prior knowledge The book is highly illustrated throughout to show the importance of physics in the natural world as well as in such fields as athletics engineering medicine and music Questions and examples are also included throughout covering a broad range of topics such as environmental issues motor racing and space flight *High School Physics Unlocked* The Princeton Review, 2016-11-29 UNLOCK THE SECRETS OF PHYSICS with THE PRINCETON REVIEW High School Physics Unlocked focuses on giving you a wide range of key lessons to help increase your understanding of physics With this book you ll move from foundational concepts to complicated real world applications building confidence as your skills improve End of chapter drills will help test your comprehension of each facet of physics from mechanics to magnetic fields Don t feel locked out Everything You Need to Know About Physics Complex concepts explained in straightforward ways Clear goals and self assessments to help you pinpoint areas for further review Bonus chapter on modern physics Practice Your Way to Excellence 340 hands on practice questions in the book and online Complete answer explanations to boost understanding plus extended step by step solutions for all drill questions online Bonus online questions similar to those you ll find on the AP Physics 1 2 and C Exams and the SAT Physics Subject Test High School Physics Unlocked covers One and Multi dimensional Motion Forces and Mechanics Energy and Momentum Gravity and Satellite Motion Thermodynamics Waves and Sound Electric Interactions and Electric Circuits Magnetic Interactions Light and Optics and more **Introductory Physics with Algebra as a Second Language** Stuart E. Loucks, 2006-08-04 Many students find it difficult to master the fundamental skills that are essential to succeeding in physics Now with this helpful book they ll quickly learn how to break physics down into basic steps Author Stuart Loucks presents the material in a way that will motivate and empower them He offers clear explanations of key concepts while examining the fundamental topics and approaches needed to solve algebra based physics problems Understand the basic language of physics Introductory Physics with Algebra as a Second Language™ will help you make sense of your textbook and class notes so that you can use them more effectively The text explains key topics in algebra based physics in clear easy to understand language Break problems down into simple steps Introductory Physics with Algebra as a Second Language™ teaches you to recognize details that tell you how to begin new problems You will learn how to effectively organize the information decide on the correct equations and ultimately solve the problem Learn how to tackle unfamiliar physics problems Stuart Loucks coaches you in the fundamental concepts and approaches needed to set up and solve the major problem types As you learn how to deal with these kinds of problems you will be better equipped to tackle problems you have never seen before Improve your problem solving skills You ll learn timesaving problem solving strategies that will help you

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Quantum Mechanics Richard Fitzpatrick,2015-05-19 Quantum mechanics was developed during the first few decades of the twentieth century via a series of inspired guesses made by various physicists including Planck Einstein Bohr Schroedinger Heisenberg Pauli and Dirac All these scientists were trying to construct a self consistent theory of microscopic dynamics that was compatible with experimental observations The purpose of this book is to present quantum mechanics in a clear concise and systematic fashion starting from the fundamental postulates and developing the theory in as logical a manner as possible Topics covered in the book include the fundamental postulates of quantum mechanics angular momentum time independent and time dependent perturbation theory scattering theory identical particles and relativistic electron theory

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Build your own 2D Game Engine and Create Great Web Games Kelvin Sung,Jebediah

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