



Angles, Circles, Velocity (a.k.a. arcs)

Circle
Circumference

1 circle = 360 degrees 1 arc = 1 degree 1 radian = 57.3°	1 arc length = 1 unit "Central angle" $\theta = 1 \text{ radian}$ if measured in radians	r_1, r_2, r_3 Linear velocity $v = r \cdot \omega$ (angular velocity) ω , measured in radians per second
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1) 100 miles per hour is how many feet per second?
100 mph $\times \frac{5280 \text{ feet}}{1 \text{ mile}} \times \frac{1 \text{ hour}}{3600 \text{ seconds}} = 146.67 \text{ feet per second}$

2) 100 is how many per second in kilometers kilometers per hour?
100 km $\times \frac{1000 \text{ meters}}{1 \text{ km}} \times \frac{1 \text{ hour}}{3600 \text{ seconds}} = 27.78 \text{ meters per second}$

3) The second hand of a clock completes one revolution every minute.
Convert this rate into degrees per sec.
1 revolution = 360 degrees
1 minute = 60 seconds
360 degrees / 60 seconds = 6 degrees per second

4) On the line, the earth spins once every day. Convert this rate into degrees per minute.
1 day = 24 hours
1 hour = 60 minutes
1 day = 1440 minutes
360 degrees / 1440 minutes = 0.25 degrees per minute

Convert each degree measure to radians

60 degrees $\left(\frac{\pi}{180}\right) = \frac{\pi}{3}$

90 degrees $\left(\frac{\pi}{180}\right) = \frac{\pi}{2}$

180 degrees $\left(\frac{\pi}{180}\right) = \pi$

Convert each radian measure to degrees

60 radians $\left(\frac{180}{\pi}\right) \approx 3438$ degrees

90 radians $\left(\frac{180}{\pi}\right) \approx 5157$ degrees

180 radians $\left(\frac{180}{\pi}\right) \approx 10313$ degrees

For each figure below, a) convert the measure of the central angle to radians. b) find the length of that intercepted arc, and c) find the arc-length of the entire circle.



a) 60 degrees = $\frac{\pi}{3}$ radians
b) $s = r\theta = 10 \times \frac{\pi}{3} = \frac{10\pi}{3}$
c) $C = 2\pi r = 2\pi \times 10 = 20\pi$



a) 90 degrees = $\frac{\pi}{2}$ radians
b) $s = r\theta = 10 \times \frac{\pi}{2} = 5\pi$
c) $C = 2\pi r = 2\pi \times 10 = 20\pi$

Angles Circles Velocity Pi Key

M Mark



Angles Circles Velocity Pi Key:

Fundamentals of Weather and Climate Robin McIlveen, 2010-05-27 Originally published in 1986 as Basic meteorology a physical outline

Modelling with Differential and Difference Equations Glenn Fulford, Peter Forrester, Arthur Jones, 1997-06-12 Any student wishing to solve problems via mathematical modelling will find that this book provides an excellent introduction to the subject

Trigonometry Cynthia Y. Young, 2021-08-03 Cynthia Young's Trigonometry 5th Edition helps students take the guesswork out of studying by offering them an easy to read and clear roadmap that tells them what to do how to do it and whether they did it right With this revision Cynthia Young tackles the most challenging topics in trigonometry bringing clarity to those learning objectives Trigonometry Fifth Edition is written in a voice that speaks to students and mirrors how effective instructors communicate in lecture Young's hallmark pedagogy enables students to become independent successful learners Key features like Parallel Words and Math and Catch the Mistake exercises are taken directly from classroom experience and keep the learning fresh and motivating

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GO TO Objective NEET 2021 Physics Guide 8th Edition Disha Experts,

A Level Further Mathematics for OCR A Mechanics Student Book (AS/A Level) Jess Barker, Nathan Barker, Michele Conway, Janet Such, 2017-12-14 New 2017 Cambridge A Level Maths and Further Maths resources to help students with learning and revision Written for the OCR AS A Level Further Mathematics specification for first teaching from 2017 this print Student Book covers the Mechanics content for AS and A Level It balances accessible exposition with a wealth of worked examples exercises and opportunities to test and consolidate learning providing a clear and structured pathway for progressing through the course It is underpinned by a strong pedagogical approach with an emphasis on skills development and the synoptic nature of the course Includes answers to aid independent study

Vol 02: Mechanics-I : Adaptive Problems

Book in Physics for College & High School SATYAM SIR, 2021-11-26 This book will cover the following Chapter s Motion in a Straight Line Motion in a Plane Laws of Motion This book contains Basic Math for Physics Vectors Units and Measurements It is divided into several subtopics where it has levelwise easy medium and difficult problems on every subtopic It is a collection of more than 300 Adaptive Physics Problems for IIT JEE Mains and JEE Advanced NEET CBSE Boards NCERT Book AP Physics SAT Physics Olympiad Level questions Key Features of this book Sub topic wise Questions with detailed Solutions Each Topic has Level 1 Level 2 Questions Chapter wise Test with Level 1 Level 2 Difficulty NCERT BOARD Level Questions for Practice Previous Year Questions JEE Mains Previous Year Questions JEE Advanced Previous Year Questions NEET CBSE More than 300 Questions from Each Chapter About Author Satyam Sir has graduated from IIT Kharagpur in Civil Engineering and has been teaching Physics for JEE Mains and Advanced for more than 8 years He has mentored over ten thousand students and continues mentoring in regular classroom coaching The students from his class have made into IIT institutions including ranks in top 100 The main goal of this book is to enhance problem solving ability in students Sir is having hope that you would enjoy this journey of learning physics In case of query visit www.physicsfactor.com or whatsapp to our customer care number 91 7618717227

CIRCULAR MOTION Dr. Sanjay Kumar, 2020-10-13 This text book is primarily intended for students who are preparing for the entrance tests of IIT JEE NEET AIIMS and other esteemed colleges in same fields This text is equally useful to the students preparing for their school exams Our main goals in writing this text book are to present the basic concepts and principles of physics that students need to know for their competitive exams 1 to provide a balance of quantitative reasoning and conceptual understanding with special attention to concepts that have been causing difficulties to student in understanding the concepts 2 to develop students problem solving skills and confidence in a systematic manner 3 to motivate students by integrating real world examples that build upon their everyday experiences Main Features of the Book 1 Every concept is up to the mark and it is given in student friendly language with various solved problems The solution is provided with problem solving approach and discussion 2 Checkpoint questions have been added to applicable sections of the text to allow students to pause and test their understanding of the concept explored within the current section The answers and solutions to the Checkpoints are given in answer keys at the end of the chapter so that students can confirm their knowledge without jumping too quickly to the provided answer 3 Special attention is given to all tricky topics like centripetal and tangential acceleration uniform circular motion vs projectile motion relative angular velocity centripetal and centrifugal force unbanked and banked curves motion in a vertical circle Coriolis force optional effect of rotation of earth on apparent weight and the physics of artificial gravity so that student can easily solve them with fun 4 To test the understanding level of students multiple choice questions conceptual questions practice problems with previous years JEE Main and Advanced problems are provided at the end of the whole discussion Number of dots indicates level of problem difficulty Straightforward problems basic level are indicated by single dot intermediate problems JEE mains and

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