



Angles, Circles, Velocity, etc. etc.

1 circle = 360 deg 1 arc = 1 deg 1 rad = 57.3 deg 1 degree = 1 deg	Arc length: $s = r\theta$ Central angle: $\theta = s/r$ rad θ measured in radians	v_t and v_a Linear velocity $v_t = r\omega$ (angular velocity) ω , measured in radians per second
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1) 100 miles per hour is how many feet per second?
 1 degree = $\frac{\pi}{180}$ radian
 100 miles per hour is how many kilometers per hour?

2) 100 miles per second is how many kilometers per hour?
 100 miles per second is how many kilometers per hour?

3) The radius of a circle is 10 cm. Find the arc length of a sector with central angle 60 degrees.
 Convert this rate into degrees per second
 1 degree = $\frac{\pi}{180}$ radian

4) On a circle, the point (1,0) is at the origin. Find the arc length of a sector with central angle 60 degrees.
 1 degree = $\frac{\pi}{180}$ radian
 100 miles per second is how many kilometers per hour?

Convert this rate into degrees per second

100 miles per second is how many kilometers per hour?

100 miles per second is how many kilometers per hour?

100 miles per second is how many kilometers per hour?

Find the angle of the sector. (a) Find the measure of the central angle in radians. (b) Find the length of the intercepted arc. (c) Find the area of the sector.



100 miles per second is how many kilometers per hour?

100 miles per second is how many kilometers per hour?

100 miles per second is how many kilometers per hour?



100 miles per second is how many kilometers per hour?

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100 miles per second is how many kilometers per hour?

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Hydrostatics and Pneumatics (the Mechanics of Fluids). Robert Hamilton Pinkerton, 1893

Science for Engineering John Bird, 2015-09-07 A practical introduction to the engineering science required for engineering study and practice Science for Engineering is an introductory textbook that assumes no prior background in engineering This new edition covers the fundamental scientific knowledge that all trainee engineers must acquire in order to pass their exams and has been brought fully in line with the compulsory science and mathematics units in the new engineering course specifications John Bird focuses upon engineering examples enabling students to develop a sound understanding of engineering systems in terms of the basic laws and principles This book includes over 580 worked examples 1300 further problems 425 multiple choice questions with answers and contains sections covering the mathematics that students will require within their engineering studies mechanical applications electrical applications and engineering systems Colour layout helps navigation and highlights key learning points formulae and exercises Understanding can be tested with the 580 worked examples 1300 further problems and 425 multiple choice questions contained within the book Focuses on real world situations and examples in order to maximise relevance to the student reader This book is supported by a companion website of materials that can be found at www.routledge.com/bird this resource including fully worked solutions of all the further problems for students to access for the first time and the full solutions and marking schemes for the revision tests found within the book for lecturers instructors use In addition all 433 illustrations will be available for downloading by staff

Mechanics Martin Adams, June Haighton, Jeff Trim, 2000 This support file has been especially developed to support the teaching of mechanics It is one of a series and is meant to be used alongside the core book The file has been broken down into sections for flexibility and ease of use with students and according to the teacher's needs Teaching notes are broken down into general and specific notes that provide guidance and ideas on developing and enhancing the material provided in the core book Topics that students are likely to find particularly difficult as well as resources that can be used are highlighted to help with planning and preparation

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