



Angles, Circles, Velocity (see notes)

Chapter 10

1 circle = 360 deg 1 arc = 1 deg or 1 rad = 57.3 deg 1 degree = 1 deg	Arc length: $L = r\theta$ Central angle: $\theta = L/r$ rad θ measured in radians	v_t and a_c 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, 1 radian = $\frac{180}{\pi}$ degrees

2) 100 ft radius gear rotated 10 revolutions. How many kilometers per hour?
 1 km = 1000 m, 1 m = 100 cm, 1 cm = 10 mm

3) The second hand of a clock completes one revolution every minute.
 Convert this rate into degrees per sec.
 1 revolution = 360° , 1 min = 60 sec, $\frac{360^\circ}{60 \text{ sec}} = 6^\circ/\text{sec}$

4) On 10/10/10, the earth spins once every day. Convert this rate into degrees per minute.
 1 day = 24 hours, 1 hour = 60 min, $\frac{360^\circ}{24 \times 60 \text{ min}} = 0.25^\circ/\text{min}$

Convert each degree measure to radians

1) $180^\circ = \pi$

2) $90^\circ = \frac{\pi}{2}$

3) $45^\circ = \frac{\pi}{4}$

Convert each radian measure to degrees

1) $\frac{\pi}{2} = 90^\circ$

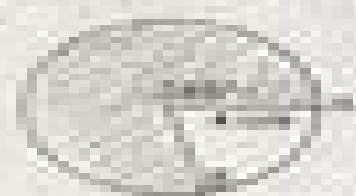
2) $\frac{\pi}{4} = 45^\circ$

3) $\frac{\pi}{6} = 30^\circ$

For each figure below, a) convert the measure of the central angle to radians, b) find the length of the intercepted arc, and c) find the area of the sector formed.



a) $60^\circ = \frac{\pi}{3}$
 b) $L = r\theta = 10 \times \frac{\pi}{3} = \frac{10\pi}{3}$
 c) $A = \frac{1}{2}r^2\theta = \frac{1}{2} \times 10^2 \times \frac{\pi}{3} = \frac{50\pi}{3}$



a) $90^\circ = \frac{\pi}{2}$
 b) $L = r\theta = 10 \times \frac{\pi}{2} = 5\pi$
 c) $A = \frac{1}{2}r^2\theta = \frac{1}{2} \times 10^2 \times \frac{\pi}{2} = \frac{25\pi}{2}$

Angles Circles Velocity Pg 3 Key

John Bird



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

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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 *MUS - Mathematimus - Hyperelliptical Geometry* Stenio Musich, 2024-03-25 M U S Mathematical Uniform Space is a new number of π representing the reality of the Universe in which we live With this number we created a new geometry Hyperelliptical Geometry which will provide the

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