



Angles, Circles, Velocity (see notes)

Chapter 10

1 circle = 360 degrees 1 degree = 60 minutes 1 minute = 60 seconds 1 revolution = 1 turn	Arc length: $s = r\theta$ Central angle: $\theta = \frac{s}{r}$ rad θ measured in radians	ω , ω_0 & ω_f Linear velocity: $v = r\omega$ (angular velocity: ω , measured in radians per second)
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- 1) 100 miles per hour is how many feet per second?

$$1 \text{ second} = 3600 \text{ seconds} \quad 1 \text{ mile} = 5280 \text{ feet}$$

100 mph

- 2) 100 is inches per second is how many kilometers per hour?

$$1 \text{ km} = 1000 \text{ m} \quad 1 \text{ m} = 39.37 \text{ inches}$$

- 3) The second hand of a clock completes one revolution every minute.

Convert this rate into degrees per min.

$$1 \text{ revolution} = 360^\circ \quad 1 \text{ min} = 60 \text{ seconds} \quad 1 \text{ revolution} = 1 \text{ min}$$

- 4) On 10/10/10, the earth spins once every day. Convert this rate into degrees per minute.

$$1 \text{ day} = 24 \text{ hours} \quad 1 \text{ hour} = 60 \text{ minutes} \quad 1 \text{ day} = 1440 \text{ minutes}$$

Convert this degree measure to radians

1000 $\left(\frac{\pi}{180}\right) = \frac{1000\pi}{180}$

10000 $\left(\frac{\pi}{180}\right) = \frac{10000\pi}{180}$

100000 $\left(\frac{\pi}{180}\right) = \frac{100000\pi}{180}$

Convert this radian measure to degrees

10 $\left(\frac{180}{\pi}\right) = \frac{1800}{\pi}$ deg

100 $\left(\frac{180}{\pi}\right) = \frac{18000}{\pi}$ deg

1000 $\left(\frac{180}{\pi}\right) = \frac{180000}{\pi}$ deg

For each figure below, (i) convert the measure of the central angle to radians, (ii) find the length of the intercepted arc, and (iii) find the area of the sector formed.

FIG 1



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

10 $\left(\frac{\pi}{3}\right) = \frac{10\pi}{3}$ units

$\frac{1}{2} \left(10^2\right) \left(\frac{\pi}{3}\right) = \frac{50\pi}{3}$ units

FIG 2



120 $\left(\frac{\pi}{180}\right) = \frac{2\pi}{3}$

10 $\left(\frac{2\pi}{3}\right) = \frac{20\pi}{3}$ units

$\frac{1}{2} \left(10^2\right) \left(\frac{2\pi}{3}\right) = \frac{100\pi}{3}$ units

$\frac{1}{2} \left(10^2\right) \left(\frac{2\pi}{3}\right) = \frac{100\pi}{3}$ units

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**United States Naval Academy.
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