

## Key points

- Define the radian and express angular displacement in radians.
- Understand and use angular speed to solve problems.
- Recall and use  $v = r\omega$  to solve problems.
- Understand the centripetal acceleration for motion in a circle at constant speed.
- Recall and use the centripetal acceleration equations  $a = r\omega^2$  and  $a = \frac{v^2}{r}$ .
- Describe how motion in a curved path needs a perpendicular force.
- Recall and use the centripetal force equations  $F = mr\omega^2$  and  $F = \frac{mv^2}{r}$ .

## Kinematics of uniform circular motion

## Radians and angular displacement

The **angular displacement**  $\theta$  of an object moving in a circular path is usually measured in **radians** (Figure 7.1).

For a complete circle ( $360^\circ$ ),  $l = 2\pi r$ , so  $\theta = 2\pi$  radians:

$$1 \text{ radian} = \frac{360}{2\pi} = 57.3^\circ$$

## Angular velocity

The **angular velocity**  $\omega$  of an object is the rate of change of angular displacement with time:

$$\omega = \frac{\Delta\theta}{\Delta t}$$

where  $\Delta\theta$  is the angle 'swept' by the radius in time  $\Delta t$  and is measured in radians per second ( $\text{rad s}^{-1}$  or just  $\text{s}^{-1}$ ). The linear speed  $v$  is related to the angular speed  $\omega$  by the equation:

$$v = r\omega$$

For an object moving with constant angular speed  $\omega$  around a circle of radius  $r$  (see Figure 7.2), the time for one complete revolution is  $T$ , where:

$$T = \frac{2\pi r}{v} = \frac{2\pi}{\omega}$$

## Worked example

The approximate distance from the Earth to the Moon is  $3.84 \times 10^8 \text{ m}$ ; the Moon takes 27.3 days to orbit the Earth.

Calculate:

- the angular velocity  $\omega$  of the Moon around the Earth
- the average speed  $v$  of the Moon.

**Answer**

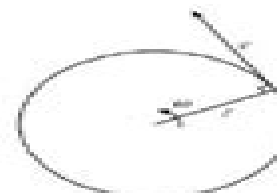
- $\omega = \frac{2\pi}{T} = \frac{2\pi}{27.3 \times 24 \times 60 \times 60} = 2.66 \times 10^{-6} \text{ rad s}^{-1}$
- $v = r\omega = 3.84 \times 10^8 \times 2.66 \times 10^{-6} = 1.02 \text{ km s}^{-1}$

## Remember

$$\theta = \frac{\text{arc length}}{\text{radius}} = \frac{l}{r}$$



▲ Figure 7.1 Radian measure



▲ Figure 7.2 Angular velocity

## Remember

$$v = r\omega$$

$$T = \frac{2\pi}{\omega}$$

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web no era extraño el tema parece muy complejo al abordarlo aunque estudiándolo puede simpli ficarse bastante la confusión ha sido creada por los masones deliberadamente ya la observancia del secreto fue siempre un obstáculo para penetrar sus designios rituales y creencias pero además también desde el principio tuvo la secta interés

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