

Unit level:

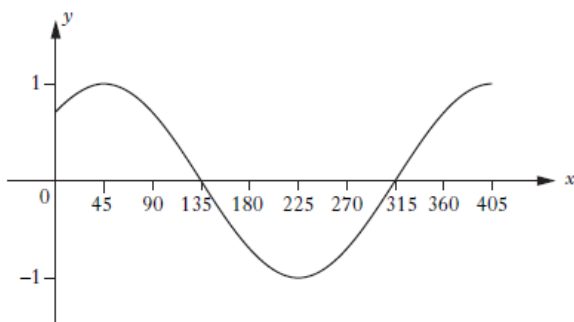
- Write down the period and amplitude of the graphs of:
 - $y = 2\sin x$
 - $y = \cos 3x$
 - $y = 4\cos 5x$
- Sketch graphs for $0 \leq x \leq 360$ of:
 - $y = 2\cos x$
 - $y = \sin 3x$
- Solve the equations: (a) $4\sin x - 3 = 0$ (b) $2\tan x - 7 = 0$

Assessment level:

- Solve the equations: (a) $5\cos x + 4 = 0$ (b) $7\sin x + 1 = -5$
- An angle, a° , can be described by the following statements.
 - a is greater than 0 and less than 360
 - $\sin a^\circ$ is negative
 - $\cos a^\circ$ is positive
 - $\tan a^\circ$ is negative

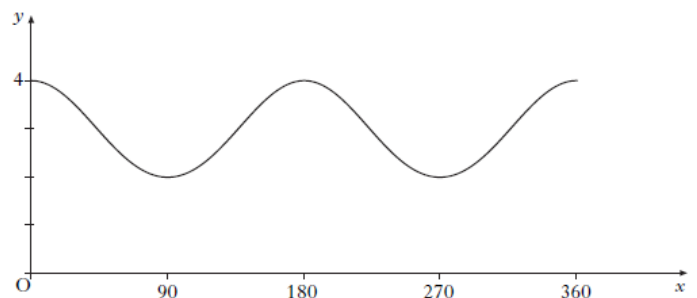
Write down a possible value for a° .

- The graph shows $y = \cos(x - a)$



Write down the value of a

- The graph shows $y = \cos bx + c$



Write the values of b and c

- A Ferris wheel is turning at a steady rate.

The height, h metres, of one of the cars above the ground at a time t seconds is given by the formula $h = 7 + 5\sin t$.

Find **TWO** times during the first turn when the car is at a height of 10.8 metres above the ground.

