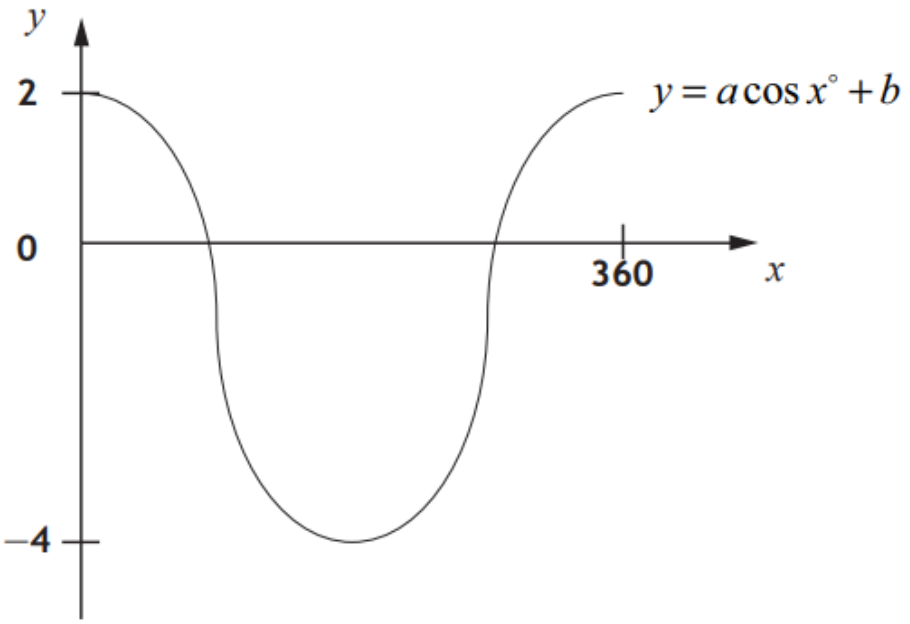
National 5 Maths
SQA 2013 Specimen
Paper 2 Question 10

National 5 Maths
Maths.scot

Part of the graph of $y = a\cos x^\circ + b$ is shown below.



(a) Explain how you can tell from the graph that $a = 3$ and $b = -1$. **2**

(b) Calculate the x-coordinates of the points where the graph cuts the x-axis. **4**

Answers:

(a) $a = 3$ because 2 – (–4) = 6, which is 3 × (1 – (–1)).

$b = -1$ because the graph of $y = 3\cos x$ has been moved down 1.

(b) 70·5°, 289·5°