

National 5 Mathematics

Exam Questions by Topic

Trig Graphs

Step-by-step worked solutions to these questions in the N5 Maths Study Pack



2015 N5 Past Paper P1, Q6

1. Part of the graph of y = asinbx is shown in the diagram.



State the values of a and b.

(2 marks)

2014 N5 Past Paper P1, Q10

2. The graph of $y = asin(x + b)^\circ$, $0 \le x \le 360$ is shown below.



Write down the values of a and b.

(2 marks)



2013 N5 Specimen P2, Q10

3. Part of the graph of $y = acosx^{\circ} + b$ is shown below.



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

(b) Calculate the x – coordinates of the points where the graph cuts the x – axis. (4 marks)

N5 Practice Paper A, P1, Q7



Part of the graph of y = acosbx is shown in the diagram.

State the value of *b*

(1 mark)



N5 Practice Paper B, P1, Q8



Part of the graph of y = acosbx is shown above.

If $\cos x^\circ = 0.5$, state two values for x for which $\cos x^\circ = -0.5$, $0 \le x \le 360$. (2 marks)

N5 Practice Paper C, P1, Q7

6. Part of the graph of $y = asin(x + b)^{\circ}$ is shown in the diagram.



State the values of *a* and *b*.

(2 marks)