



Mathematics Department

A Level Further Maths

WYKE START BRIDGING WORK

Name:

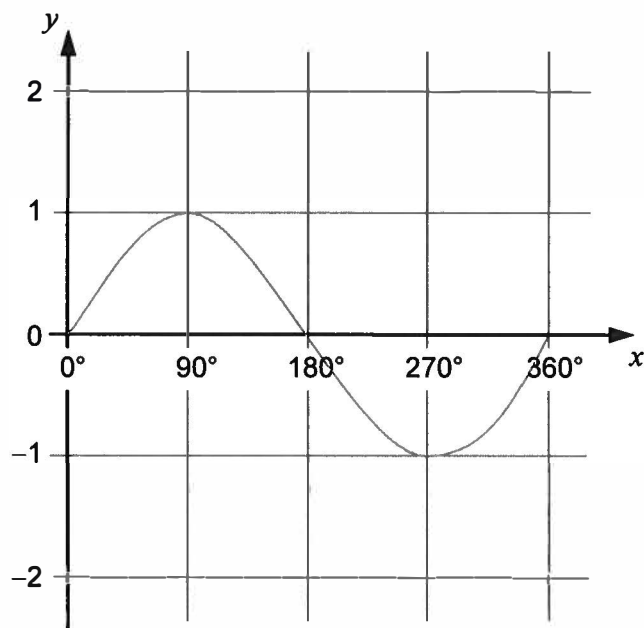
Teacher:

Questions that you need support with:

4 (a) The graph of $y = \sin x$ is shown for $0^\circ \leq x \leq 360^\circ$

On the grid sketch the graph of $y = \sin x - 1$ for $0^\circ \leq x \leq 360^\circ$

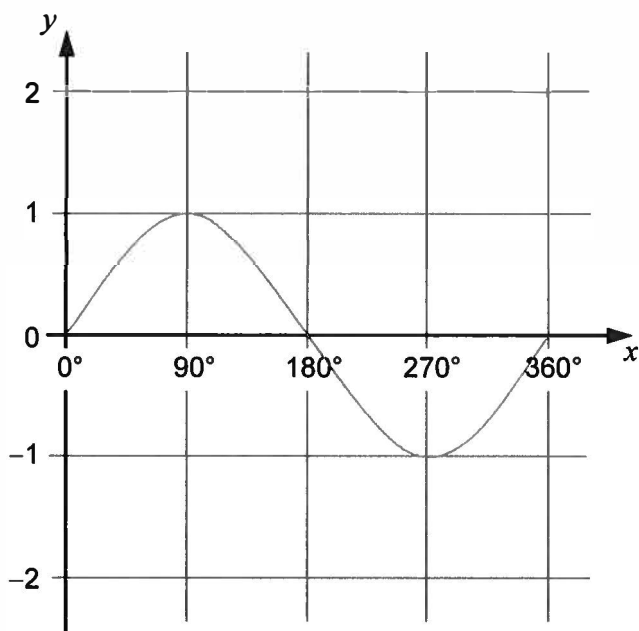
[1 mark]



4 (b) The graph of $y = \sin x$ is shown on the grid for $0^\circ \leq x \leq 360^\circ$

On this grid sketch the graph of $y = -\sin x$ for $0^\circ \leq x \leq 360^\circ$

[1 mark]



5 A bag contains n beads.
One bead is black and the rest are white.
Two beads are taken from the bag at random.

5 (a) Show that the probability that **both** beads are white is $\frac{n-2}{n}$

[2 marks]

5 (b) The probability that **both** beads are white is greater than 0.9

Work out the **least** possible value of n .

[3 marks]

Answer _____