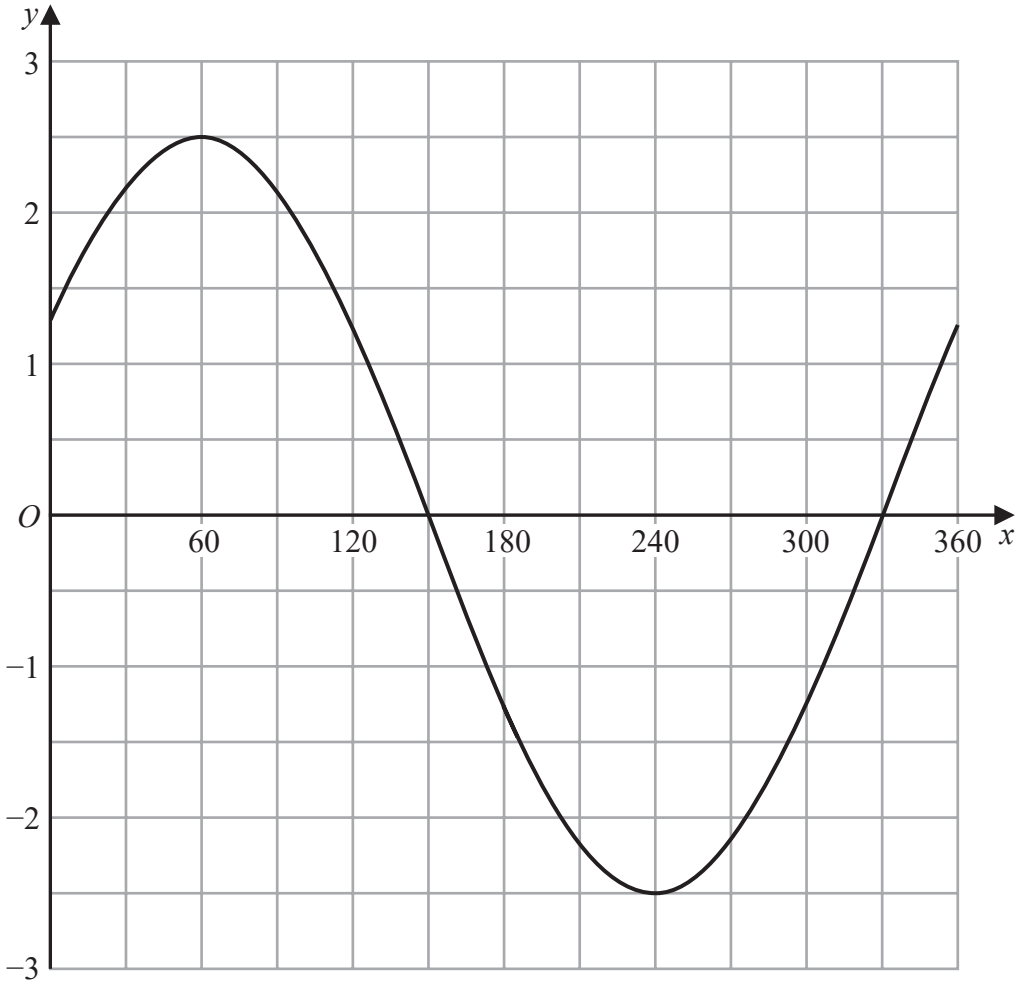
**22** The graph of $y = a\cos(x + b)°$ for $0 \leqslant x \leqslant 360$ is drawn on the grid.




(a) Find the value of $a$ and the value of $b$.

$a =$ .....

$b =$ .....

**(2)**

Another curve $C$ has equation $y = f(x)$
The coordinates of the minimum point of $C$ are (4, 5)

(b) Write down the coordinates of the minimum point of the curve with equation

(i) $y = f(2x)$

(..... , .....)

(ii) $y = f(x) - 7$

(..... , .....)

**(2)**

**(Total for Question 22 is 4 marks)**

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA