

RELATIONSHIPS HOMEWORK 7

Non calculator:

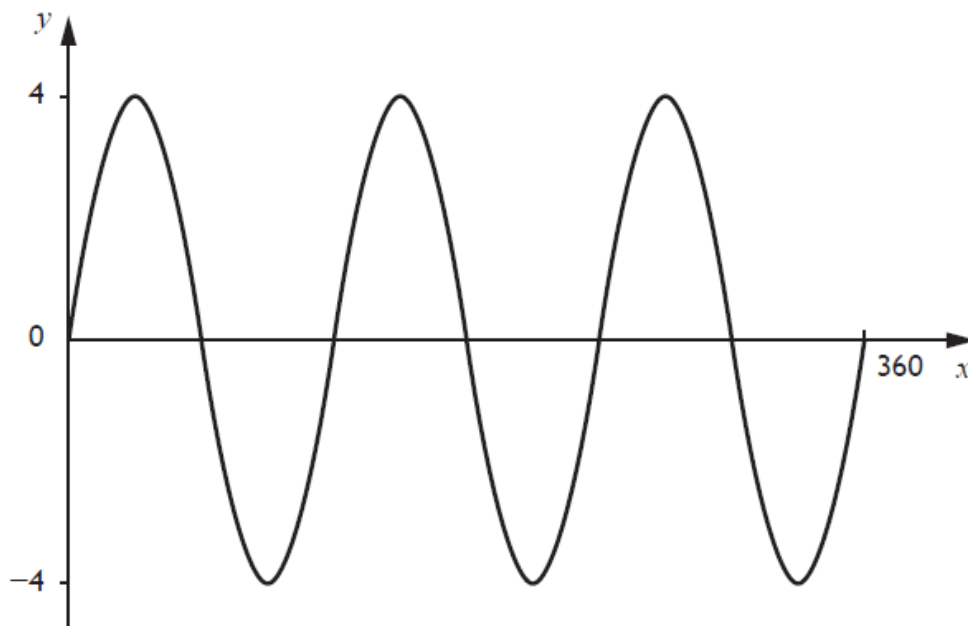
Sketch the graph of $y = (x - 3)^2 + 1$.

On your sketch, show clearly the coordinates of the turning point and the point of intersection with the y -axis.

3

Calculator

Part of the graph of $y = a \sin bx^\circ$ is shown in the diagram.



State the values of a and b .

2

Challenge Question (Calculator)

A function is given by the formula, $f(x) = 4 \times 2^x$.

(a) Evaluate $f(3)$.

2

(b) Given that $f(m) = 4$, find the value of m .

2