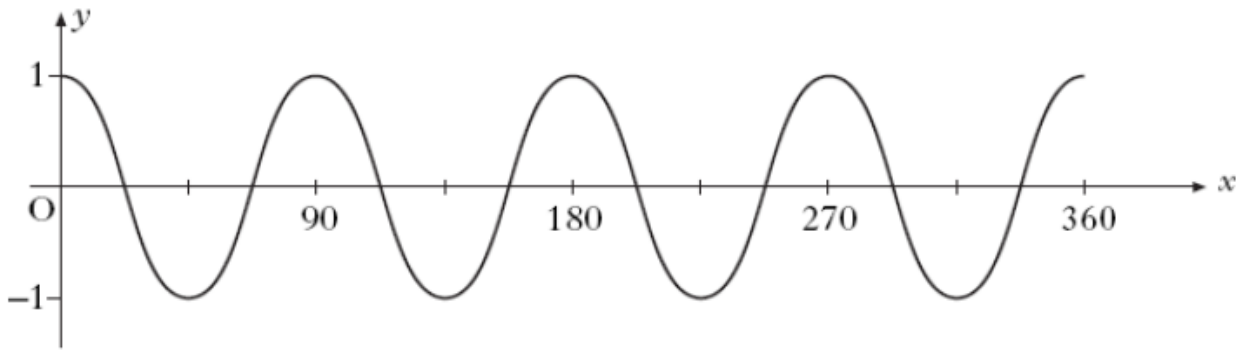
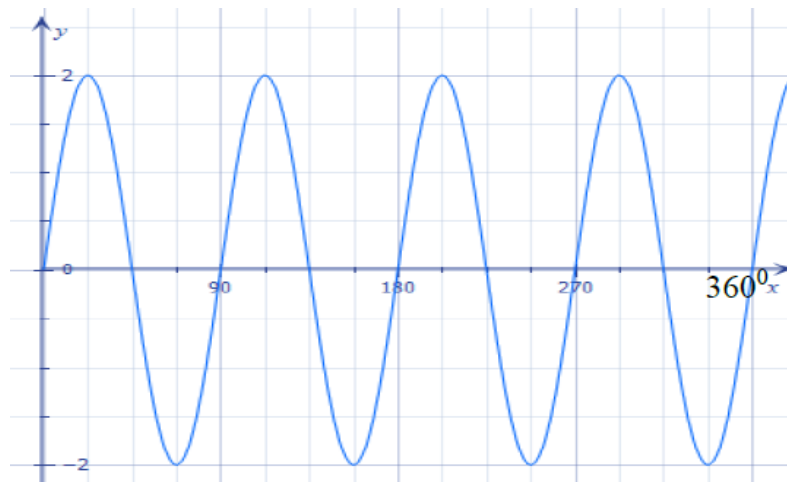


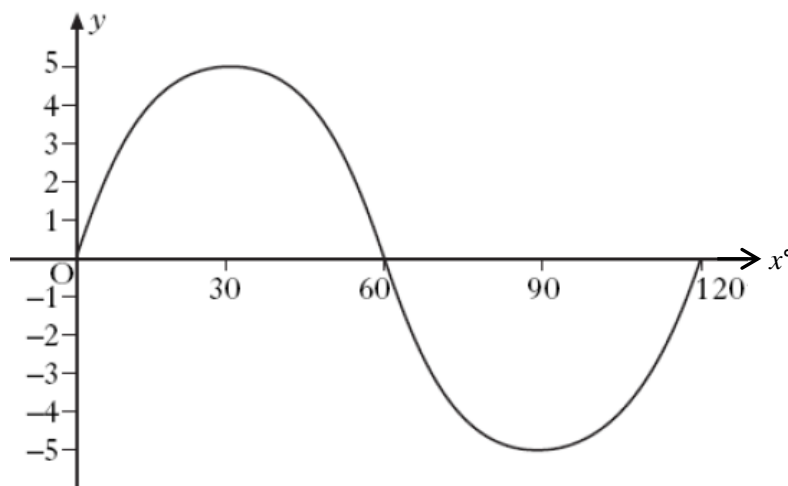
1. Below is the graph of the function $y = a \cos bx^\circ$. State the values of a and b .



2. Below is the graph of the function $y = a \sin bx^\circ$. State the values of a and b .



3. Below is the graph of the function $y = a \sin bx^\circ$. State the values of a and b .



4. Sketch graphs of the following: $0^\circ \leq x \leq 360^\circ$

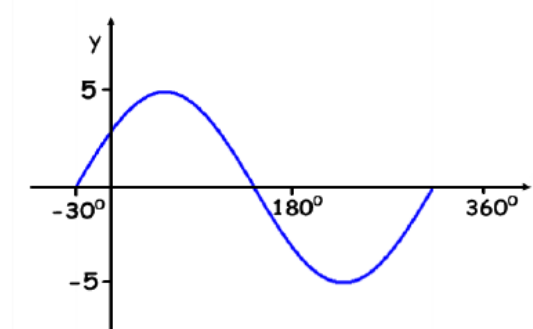
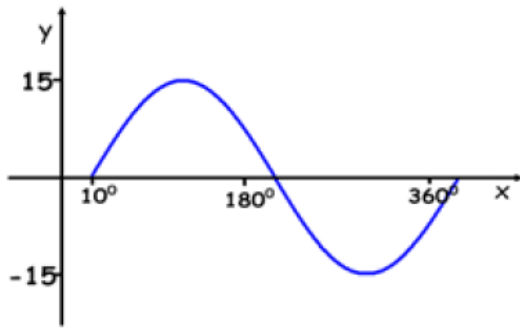
(a) $y = \sin 2x^\circ$

(c) $y = 3\cos 3x^\circ$

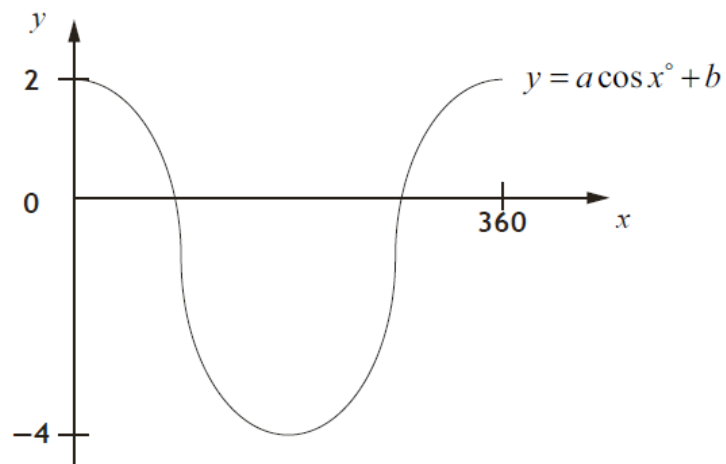
(b) $y = 1 - \cos x^\circ$

(d) $y = 4\sin x^\circ + 2$

5. Write down the equations of the following trigonometric functions:



6. 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 $b = -1$.

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