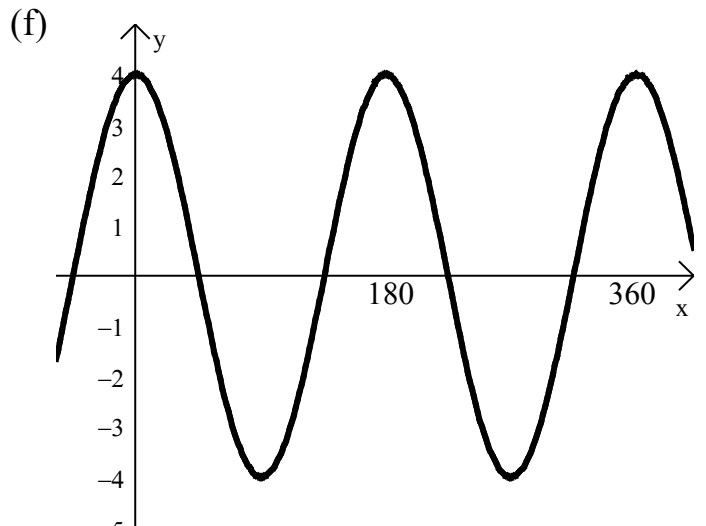
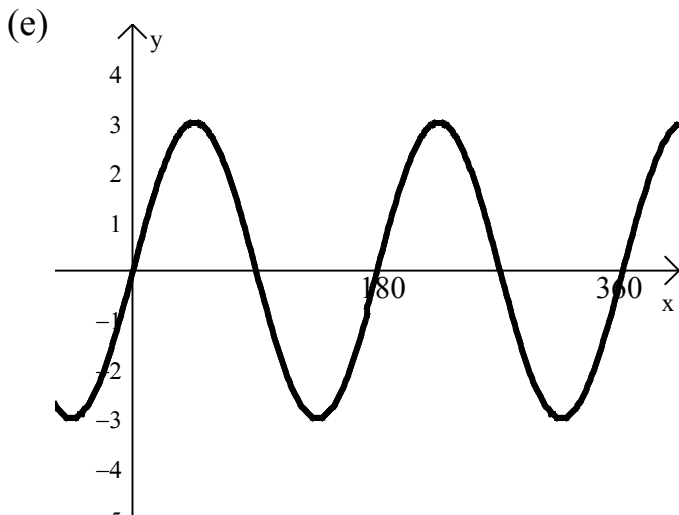
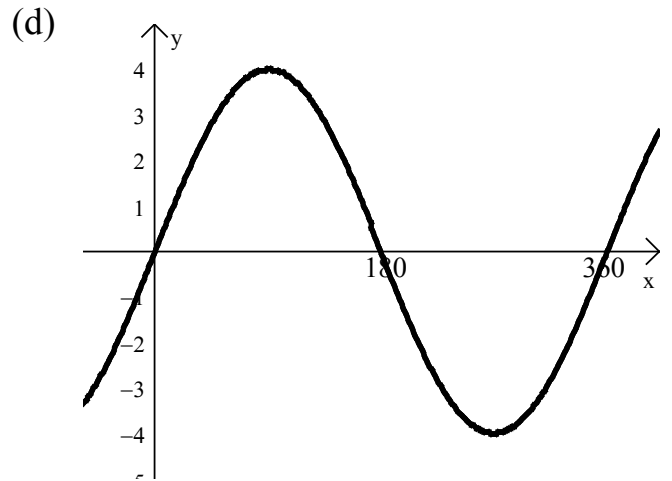
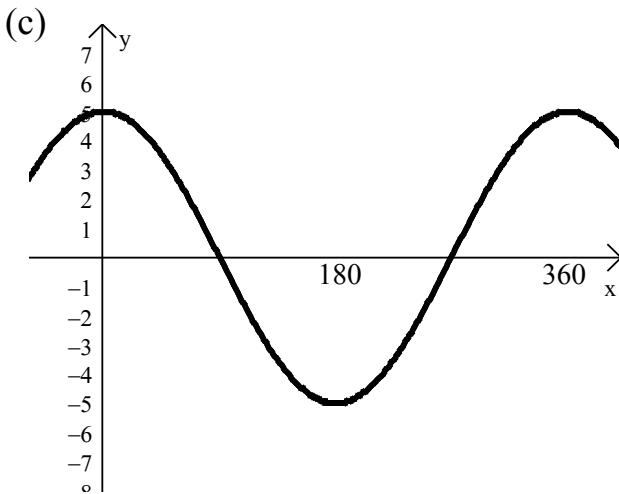
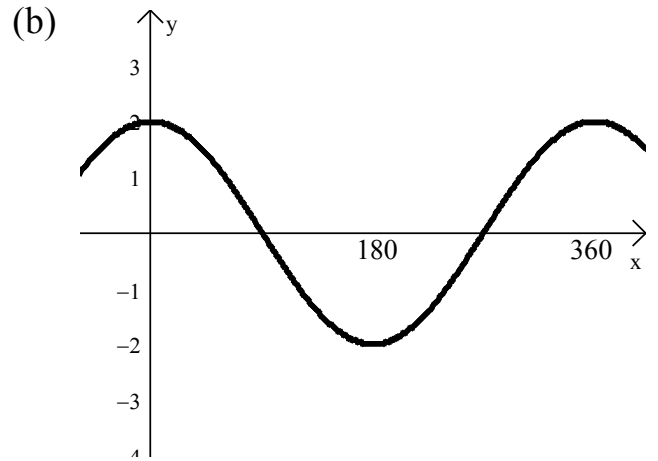
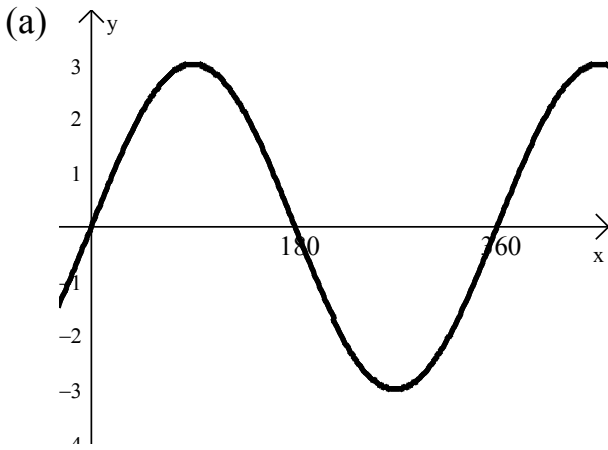
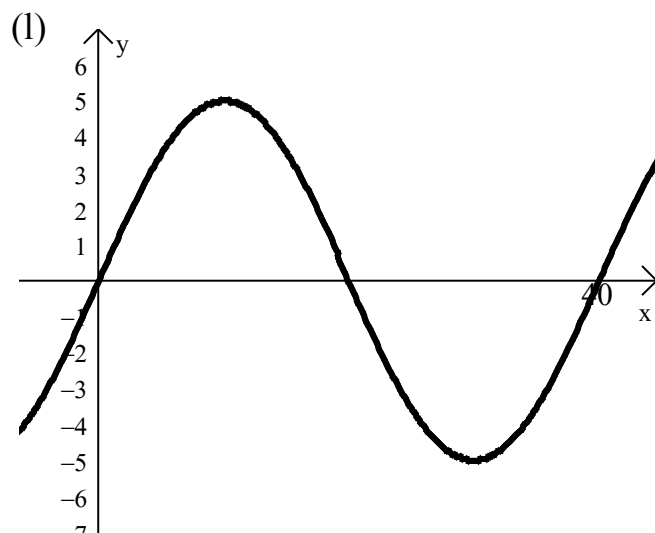
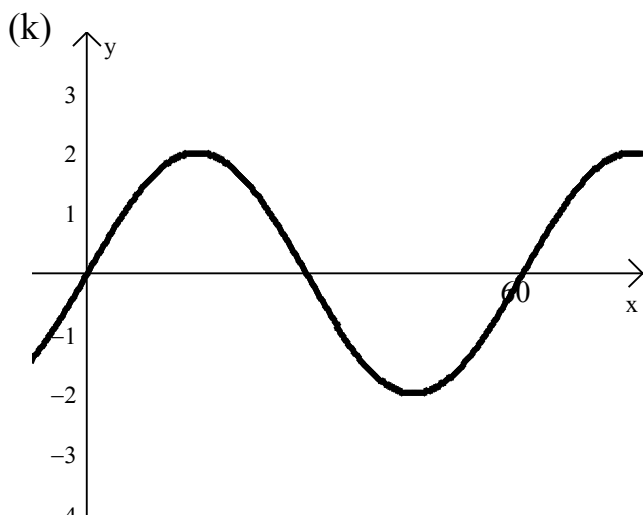
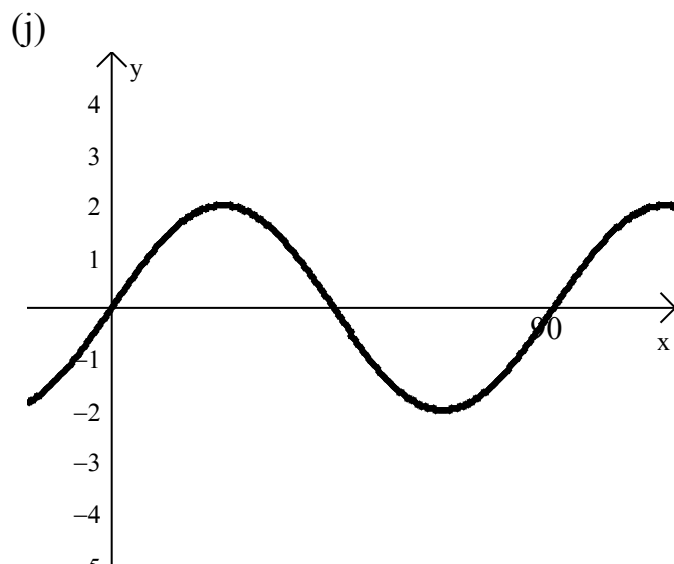
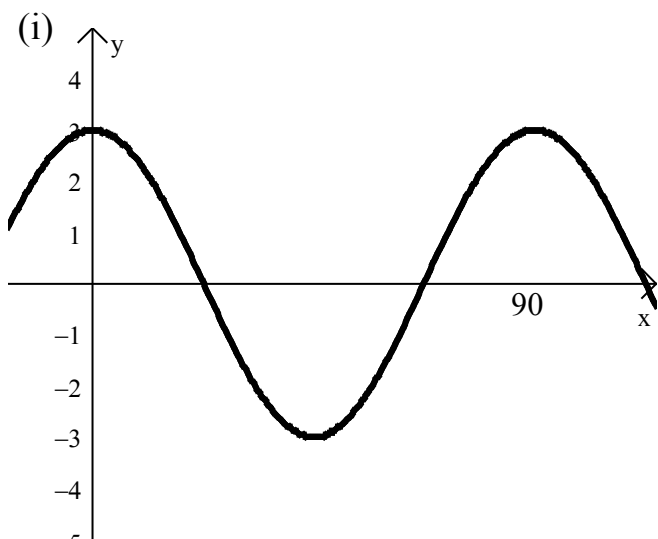
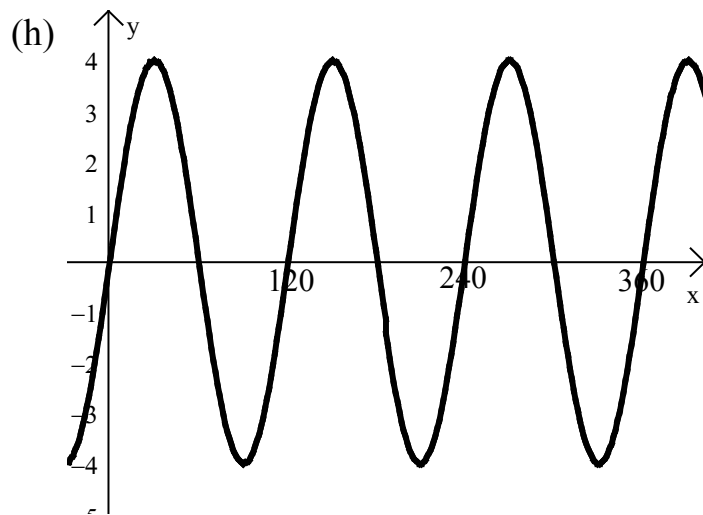
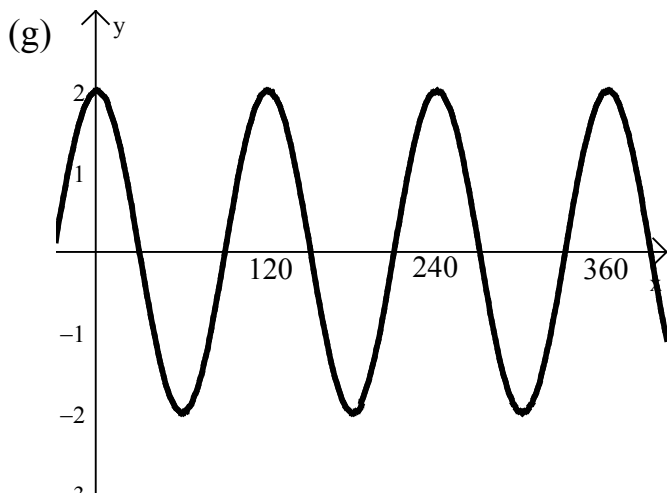


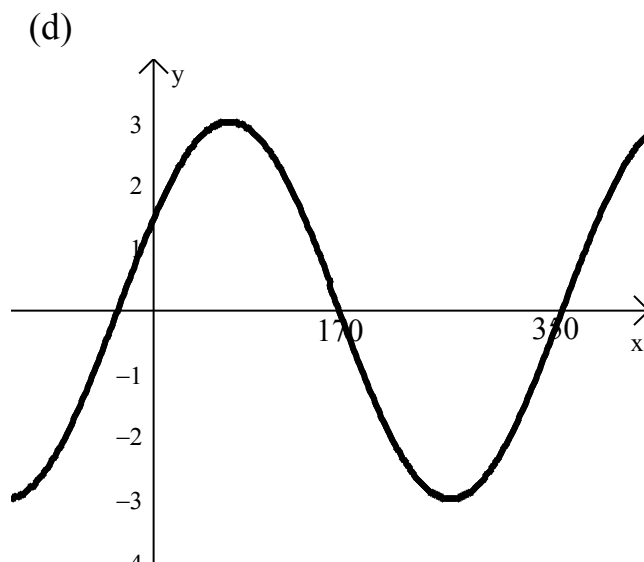
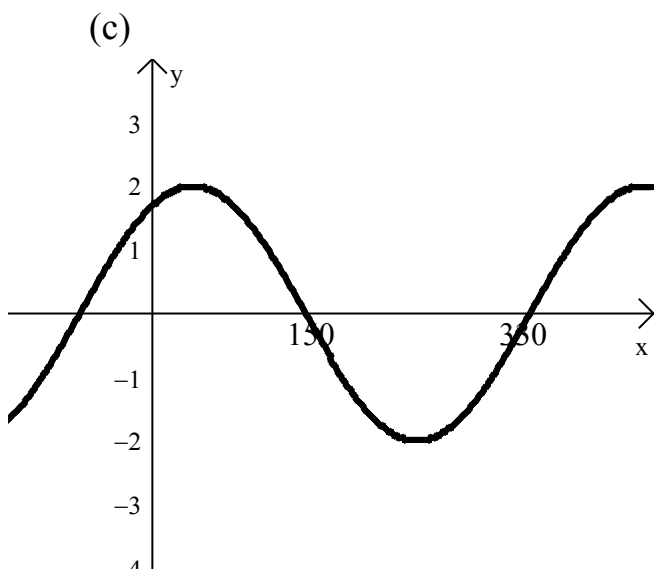
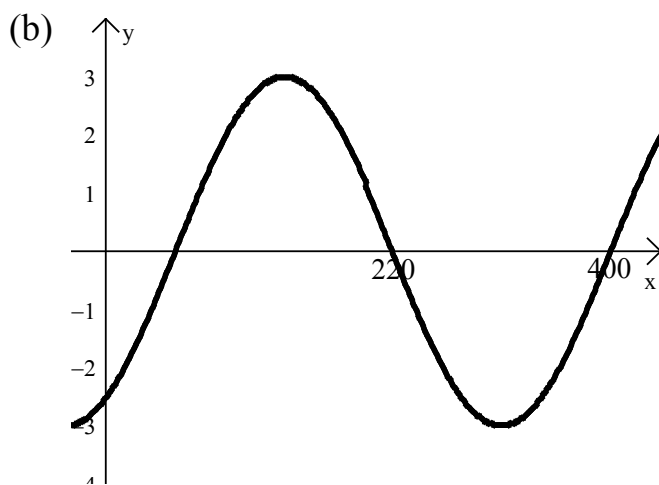
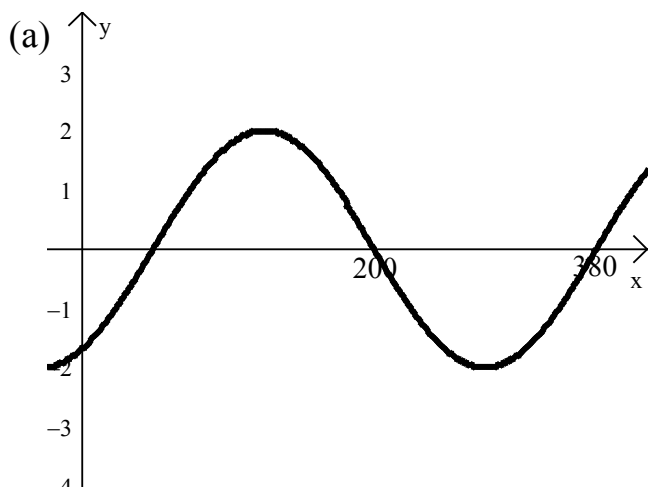
Trigonometric Graphs

1. Each of the graphs below has an equation of the form $y = a \sin bx$ or $y = a \cos bx$. Write down the values of a and b .

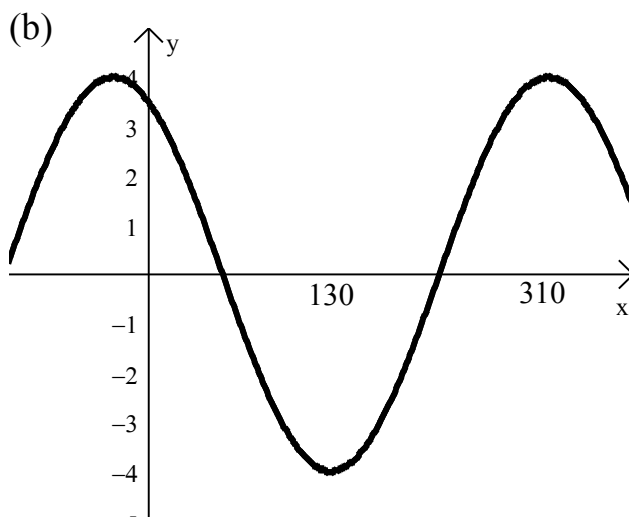
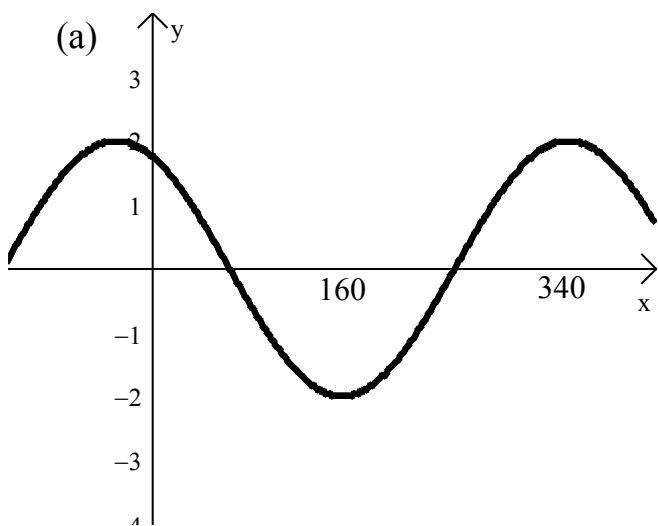


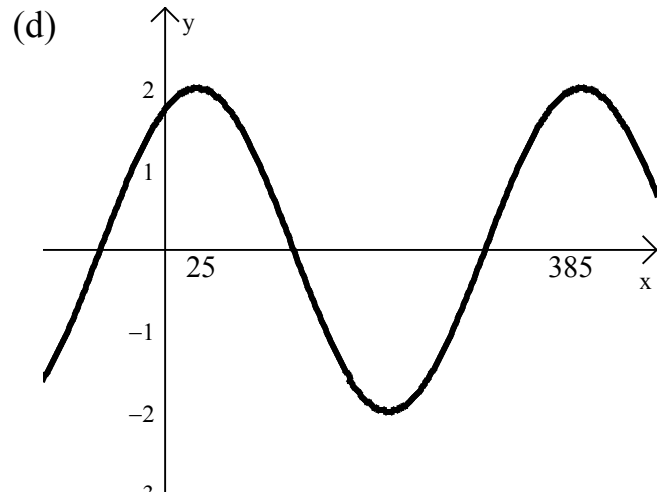
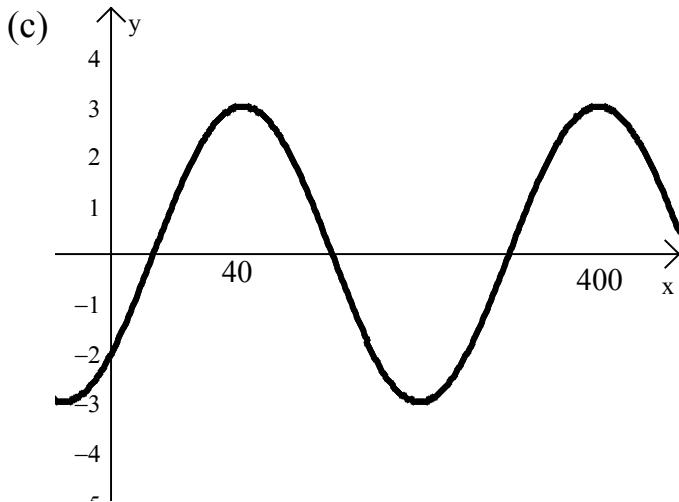


2. Each graph below is of the form $y = a\sin(x \pm b)$.
Write down the equation of each graph.



3. Each graph below is of the form $y = a\cos(x \pm b)$.
Write down the equation of each graph..





4. Make sketches of the following graphs for $0^\circ \leq x^\circ \leq 360^\circ$

(a) $y = 6\sin x$

(b) $y = 4\cos x$

(c) $y = 3\sin 2x$

(d) $y = 4\sin 4x$

(e) $y = 2\cos 3x$

(f) $y = 8\cos 4x$

(g) $y = 2.5\cos 3x$

(h) $y = 1.2\sin 5x$

(i) $y = 4\cos(x - 45)$

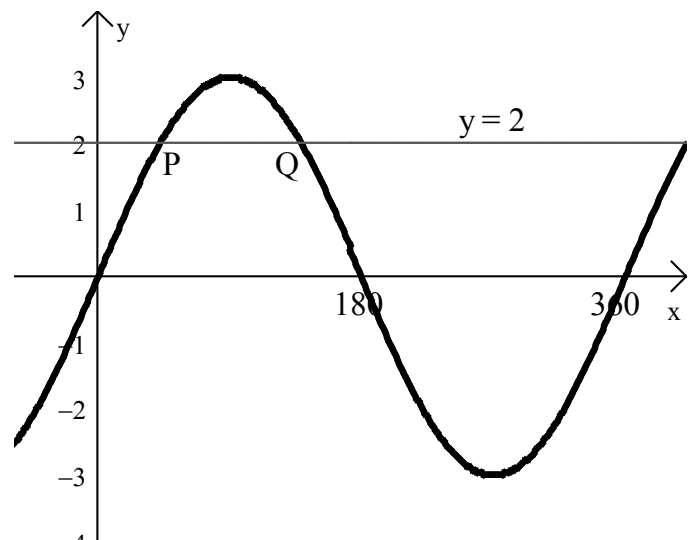
(j) $y = 2\sin(x - 30)$

(k) $y = 5\cos(x + 20)$

(l) $y = 3\sin(x + 60)$

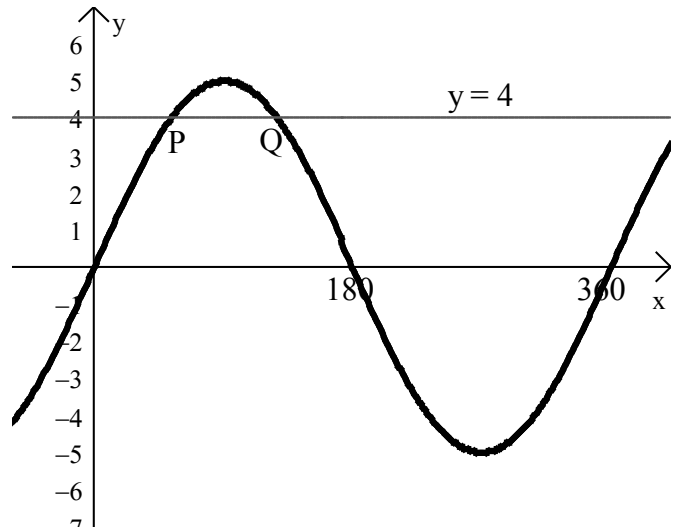
5. (a) Write down the equation of the graph opposite in the form $y = a\sin x$.

(b) The line $y = 2$ meets this graph at the points P and Q. Find the coordinates of P and Q.



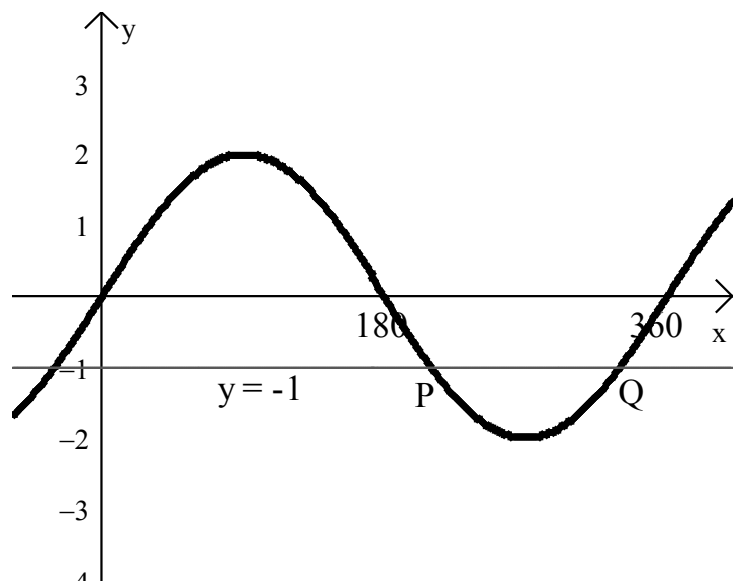
6. (a) Write down the equation of the graph opposite in the form $y = a \sin x$.

(b) The line $y = 4$ meets this graph at the points P and Q. Find the coordinates of P and Q.



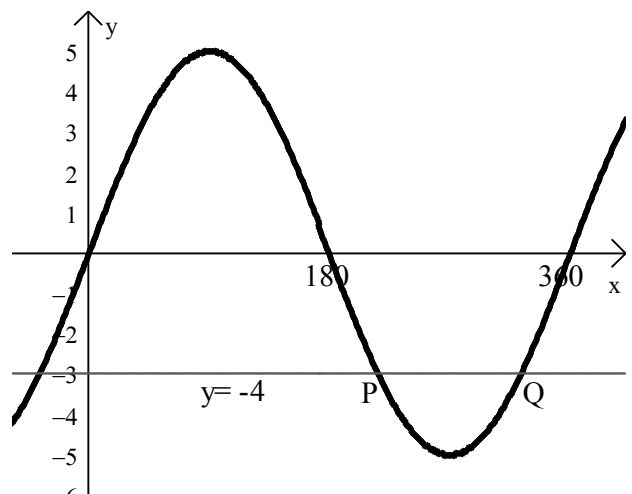
7. (a) Write down the equation of the graph opposite in the form $y = a \sin x$.

(b) The line $y = -1$ meets this graph at the points P and Q. Find the coordinates of P and Q.



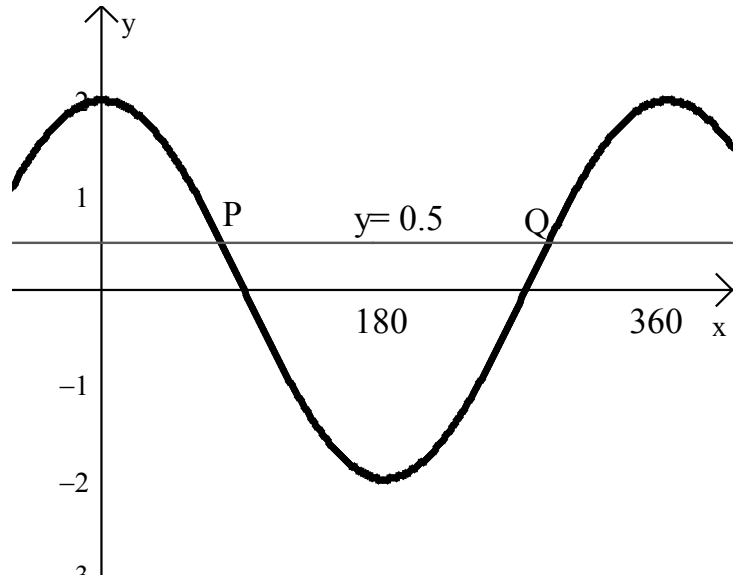
8. (a) Write down the equation of the graph opposite in the form $y = a \sin x$.

(b) The line $y = -4$ meets this graph at the points P and Q. Find the coordinates of P and Q.



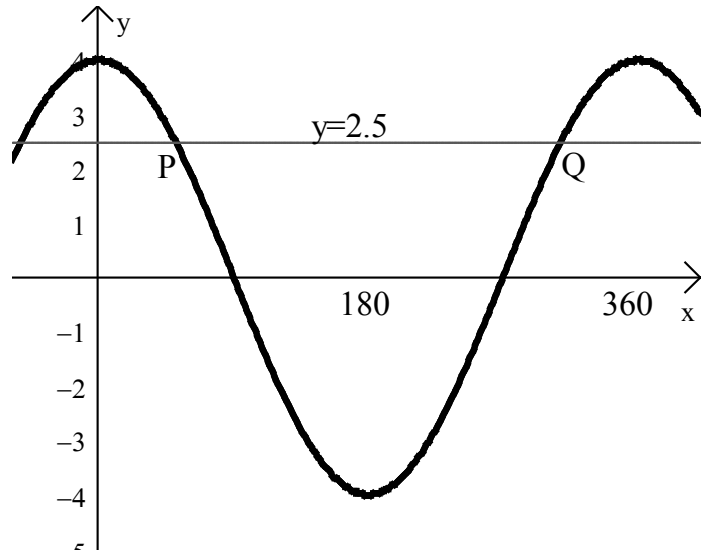
9. (a) Write down the equation of the graph opposite in the form $y = a \cos x$.

(b) The line $y = 0.5$ meets this graph at the points P and Q. Find the coordinates of P and Q.



10. (a) Write down the equation of the graph opposite in the form $y = a \cos x$.

(b) The line $y = 2.5$ meets this graph at the points P and Q. Find the coordinates of P and Q.



11. (a) Write down the equation of the graph opposite in the form $y = a \cos x$.

(b) The line $y = -3.5$ meets this graph at the points P and Q. Find the coordinates of P and Q.

