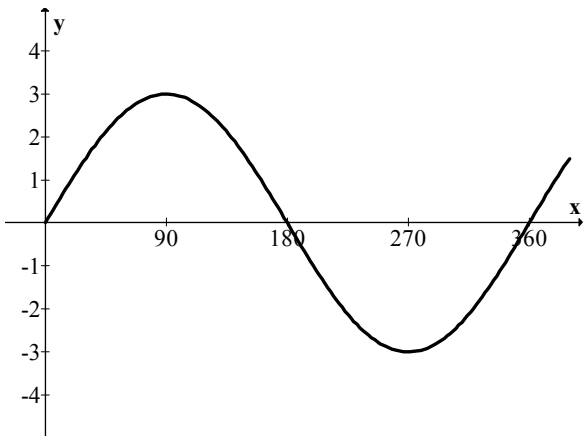


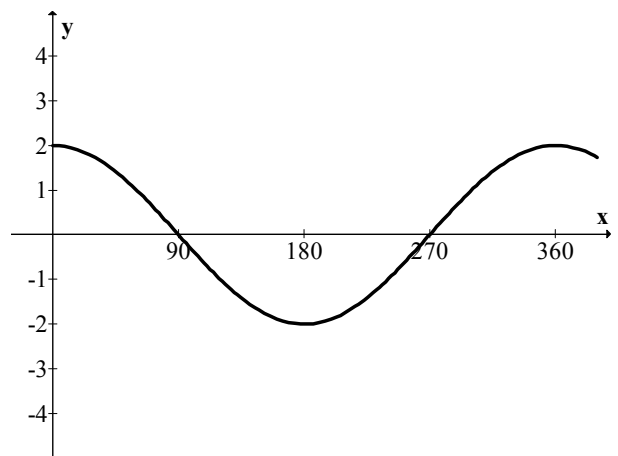
Trigonometric Graphs

1. Each graph below is of the form $y = a \sin bx$ or $y = a \cos bx$.
Write down the values of a and b in each question.

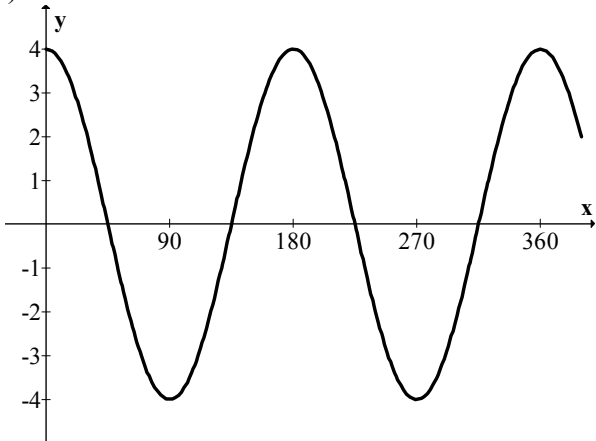
(a)



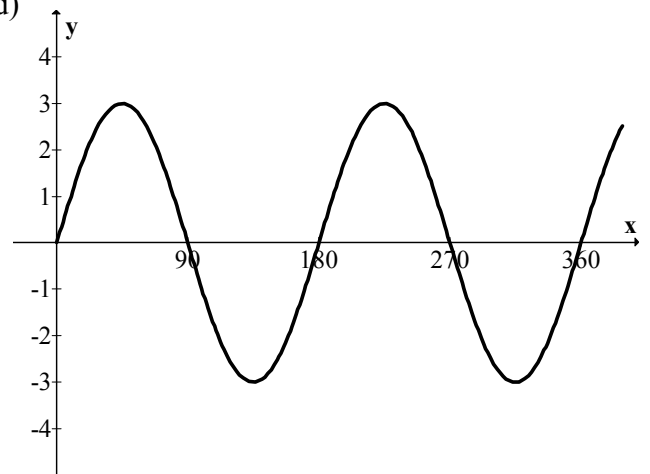
(b)



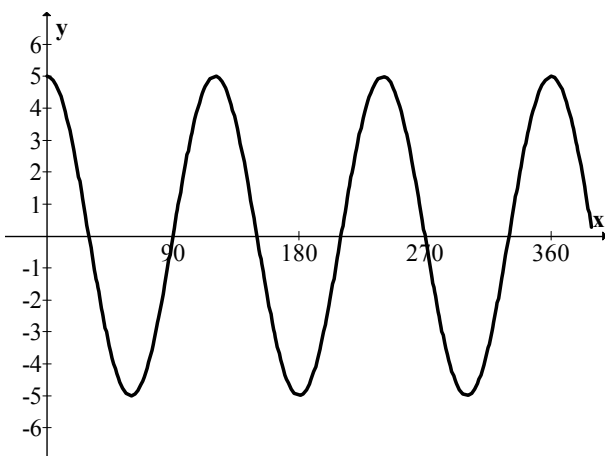
(c)



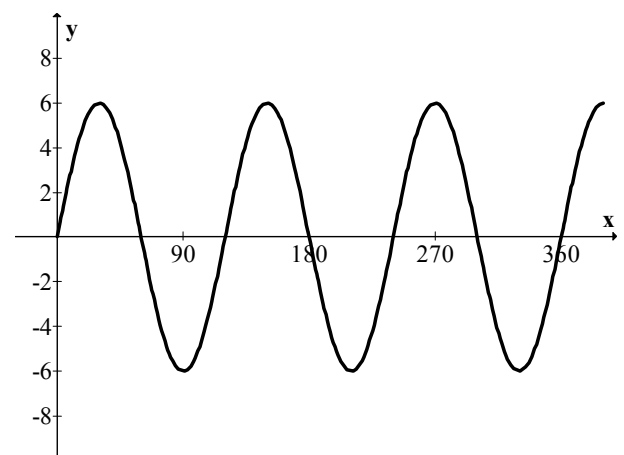
(d)



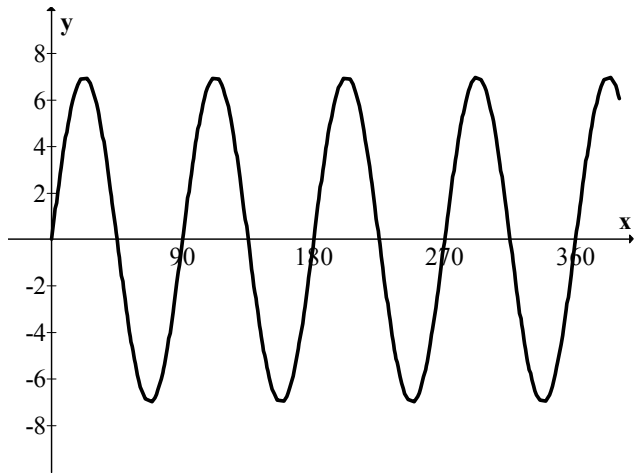
(e)



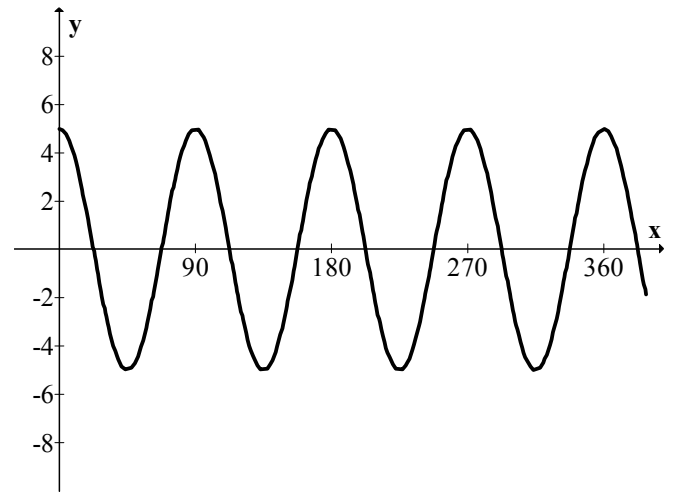
(f)



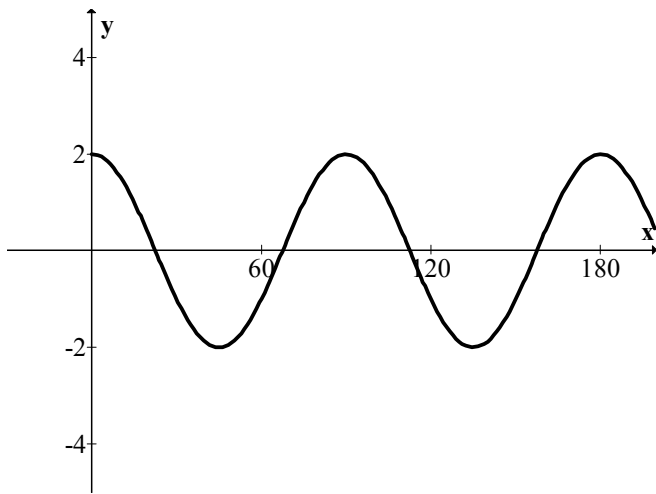
(g)



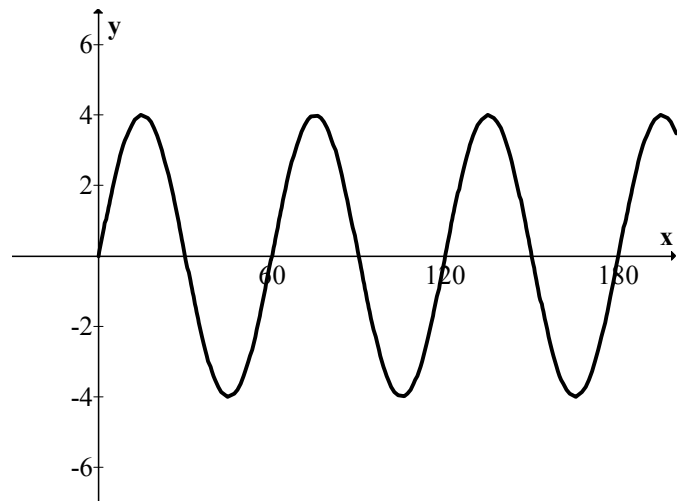
(h)



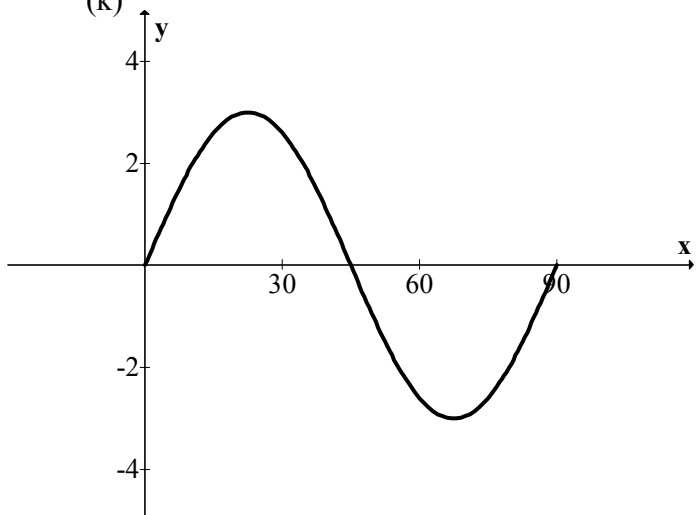
(i)



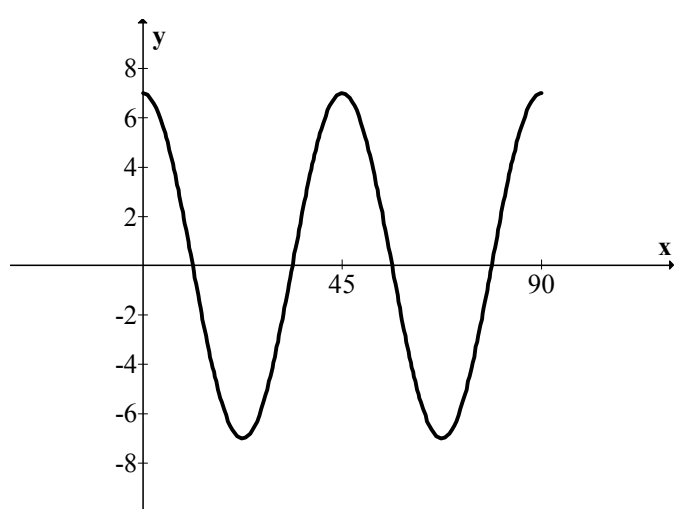
(j)



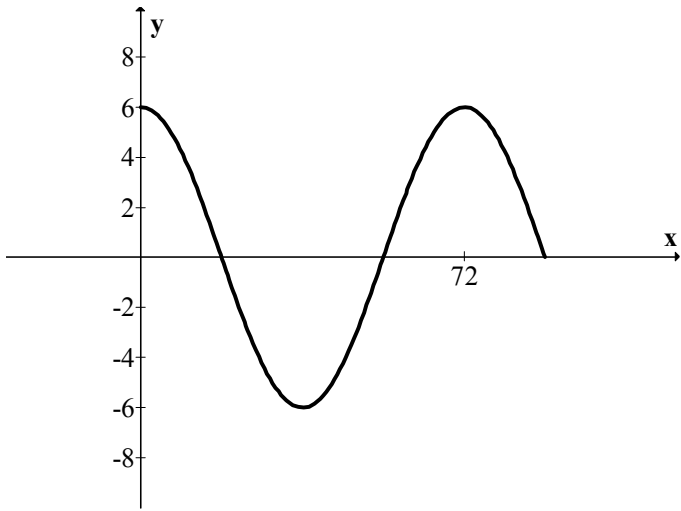
(k)



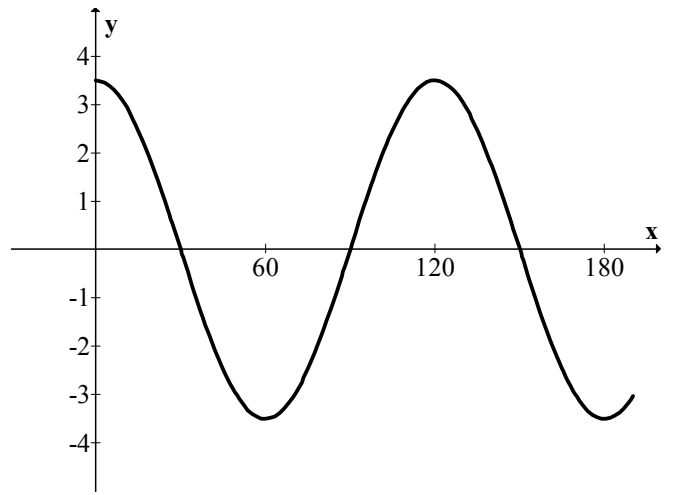
(l)



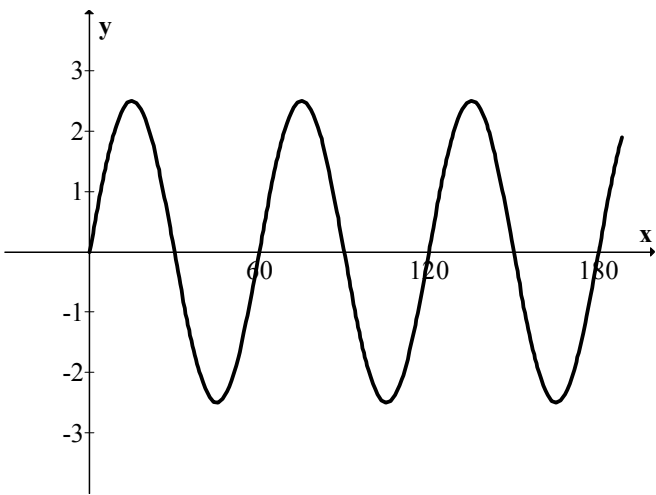
(m)



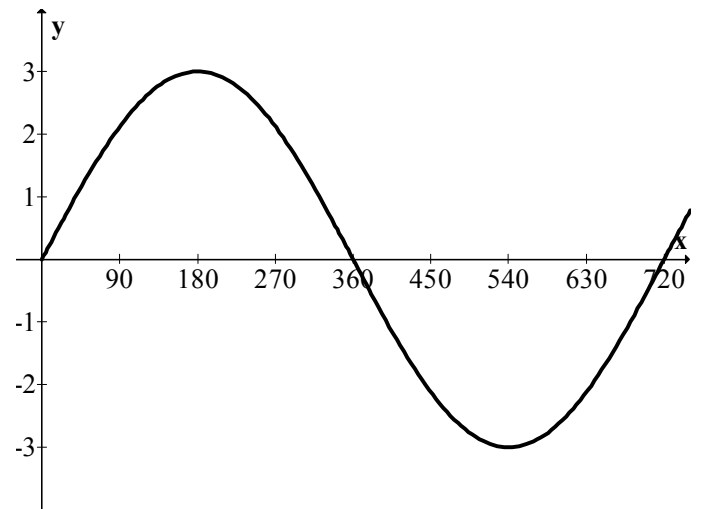
(n)



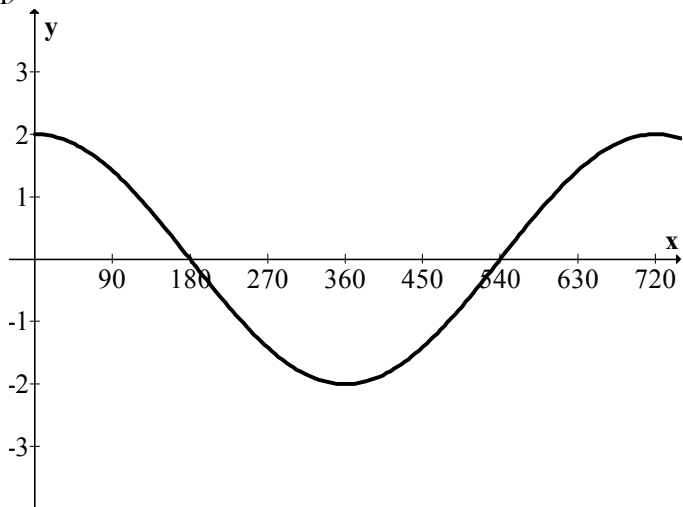
(o)



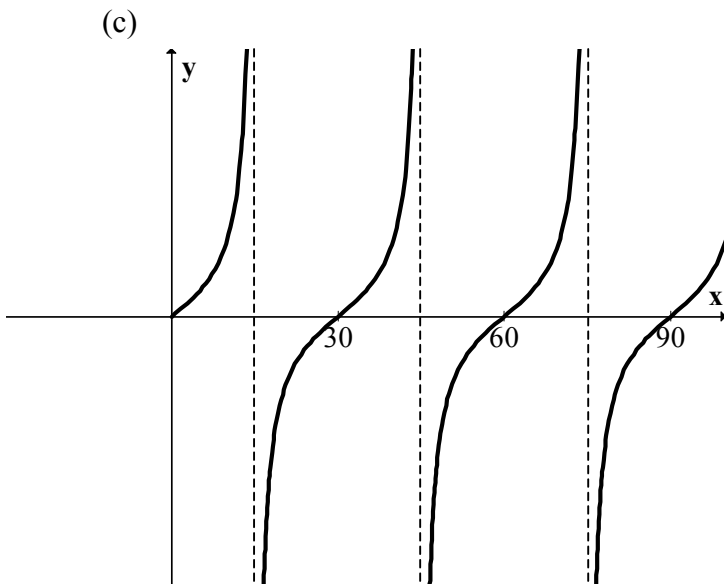
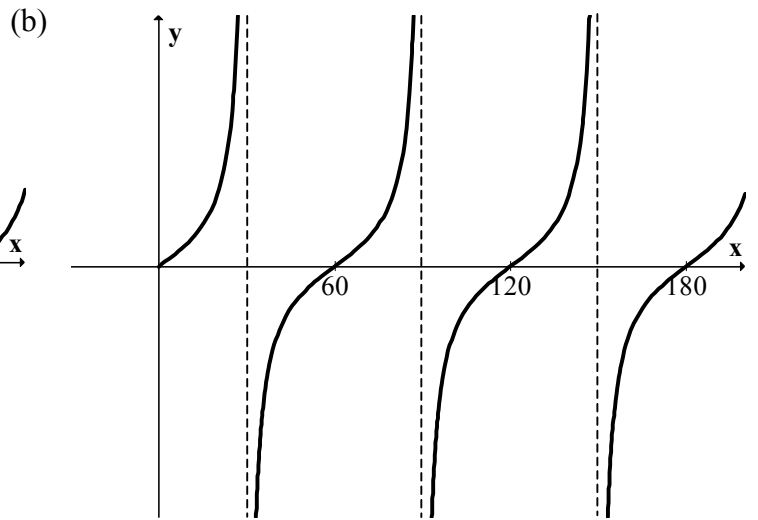
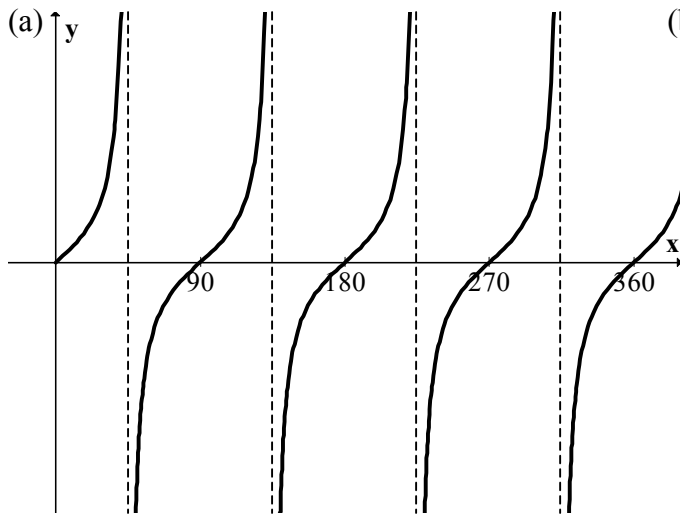
(p)



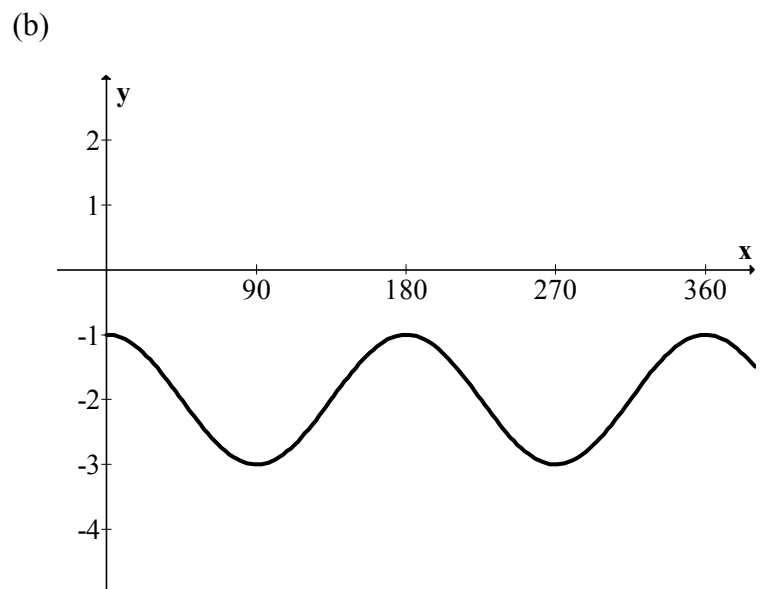
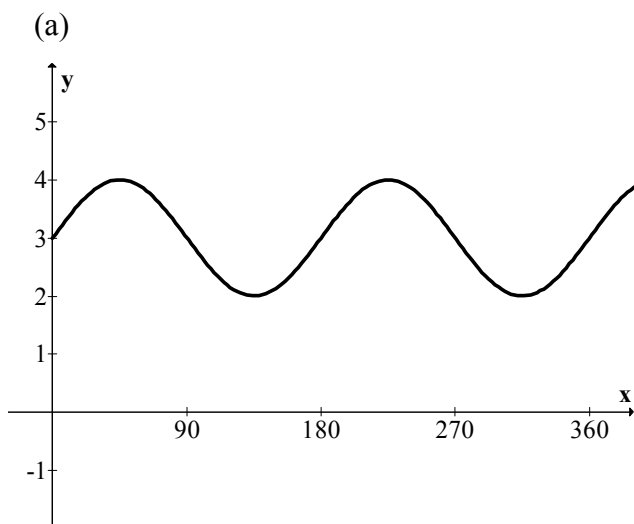
(q)

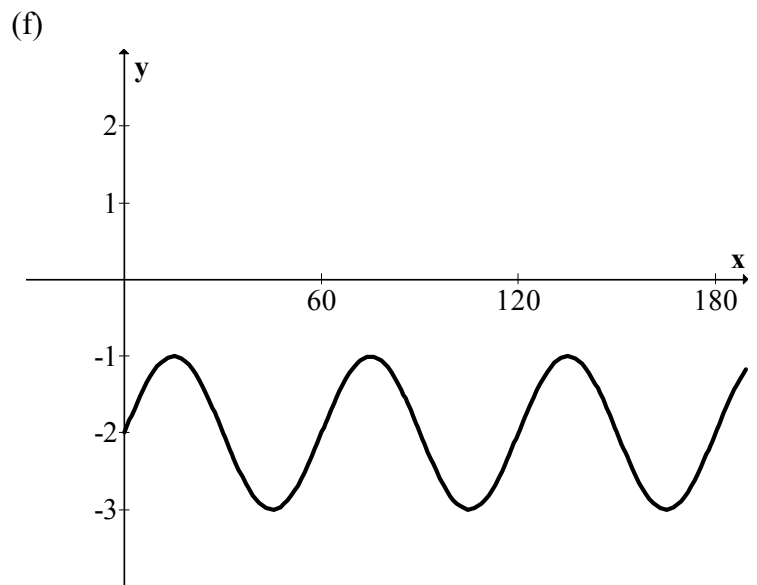
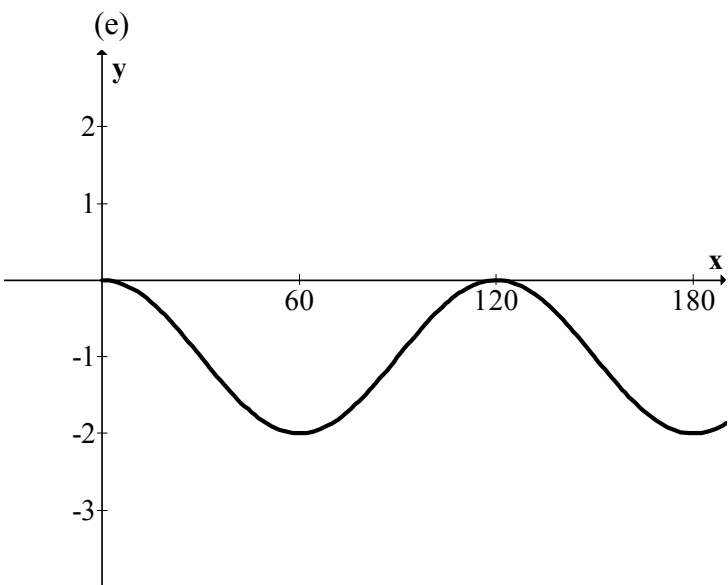
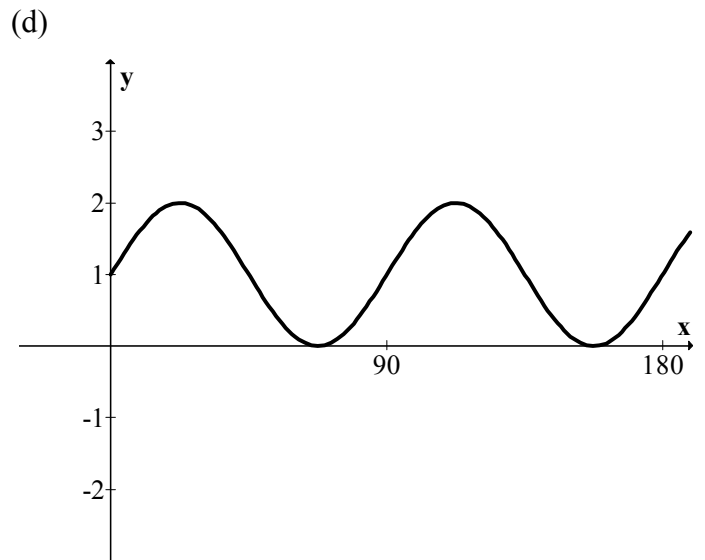
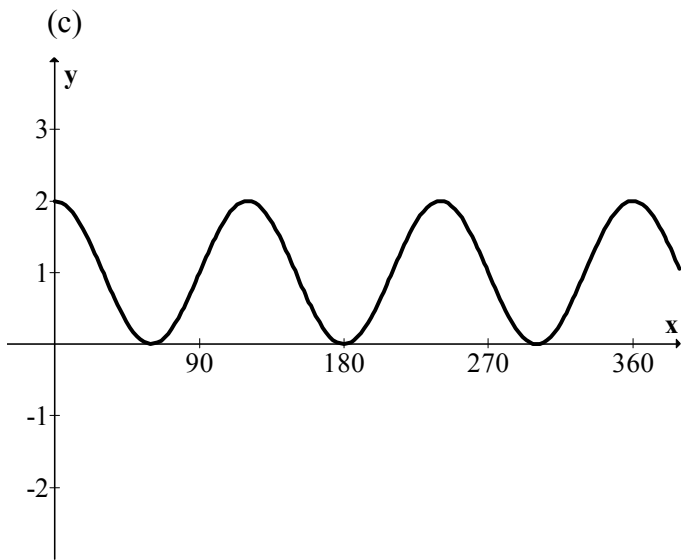


2. Each graph below is of the form $y = \tan bx$. Write down the value of b .

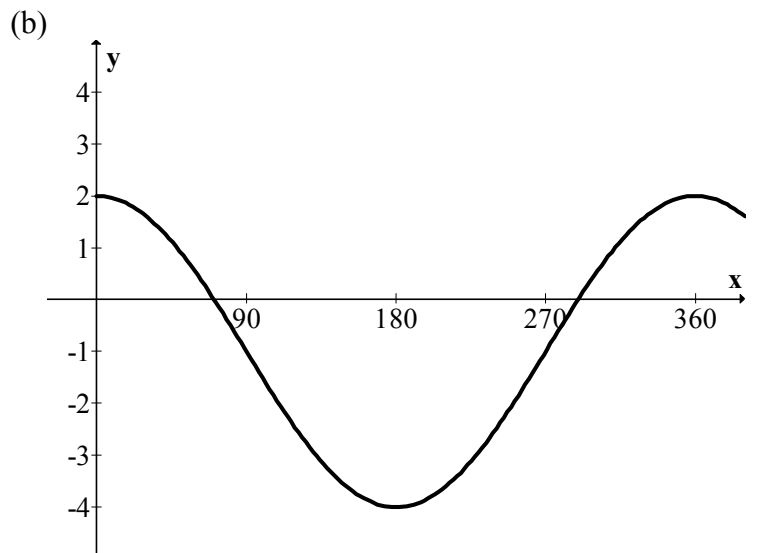
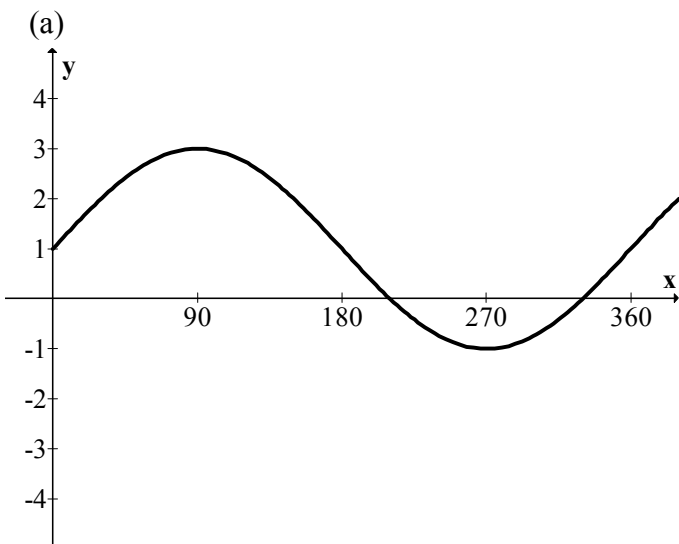


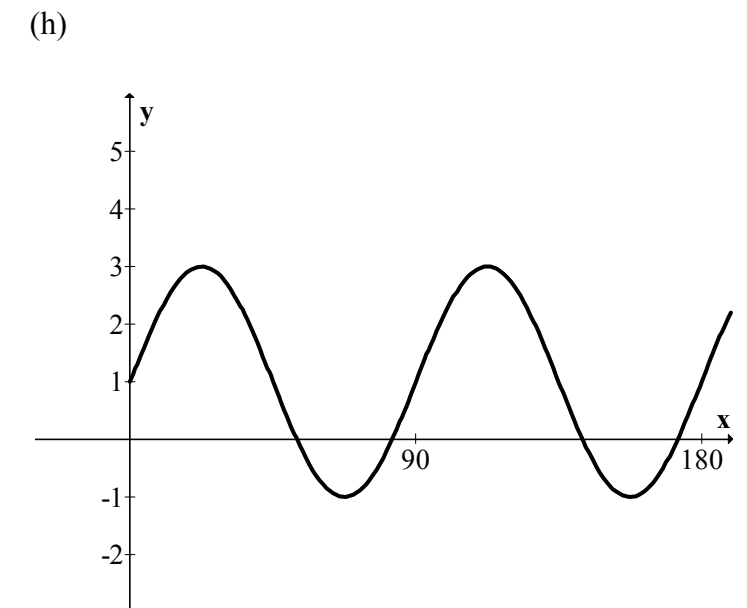
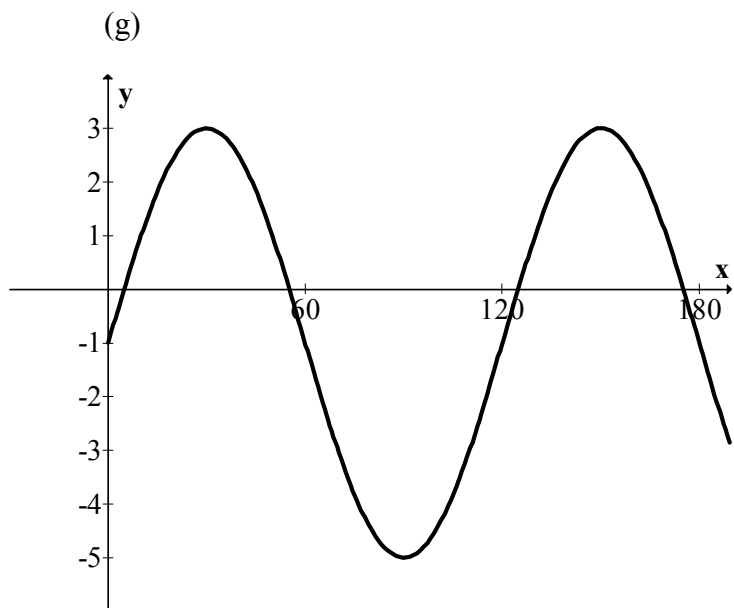
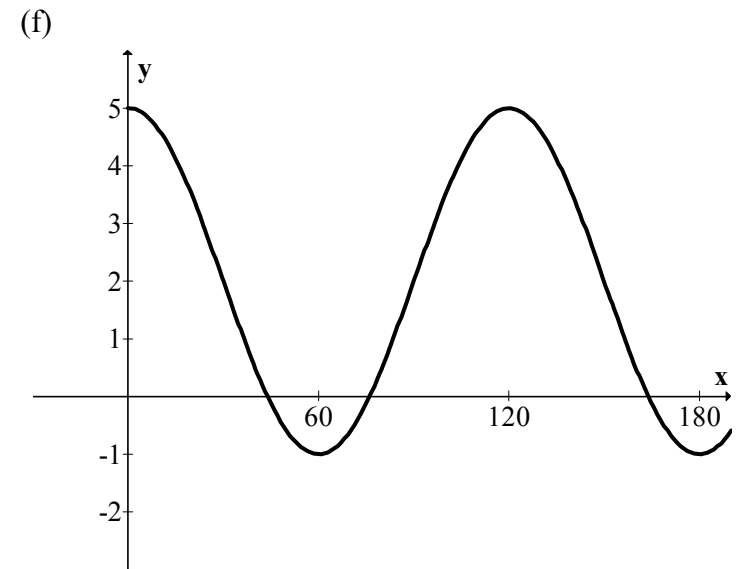
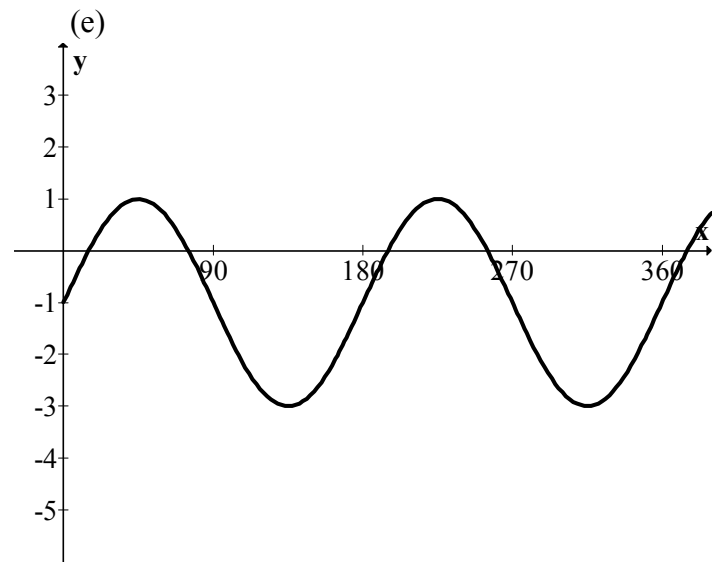
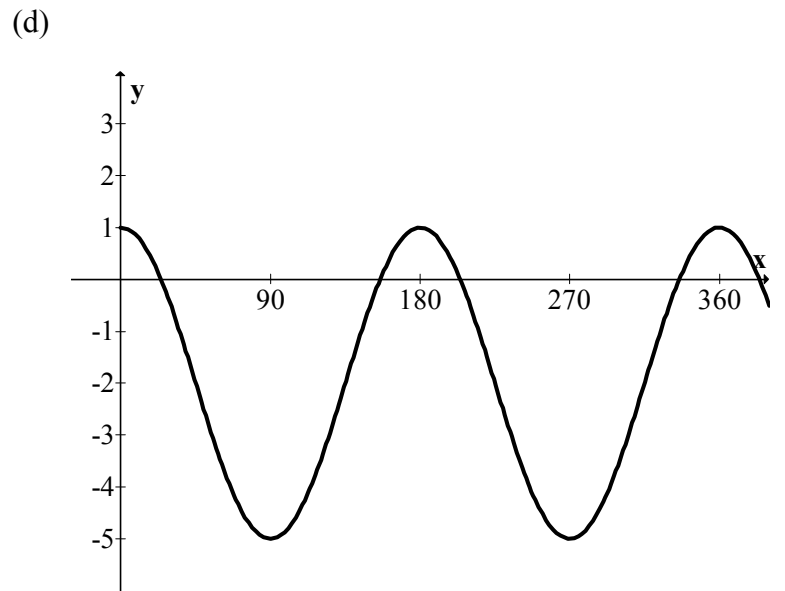
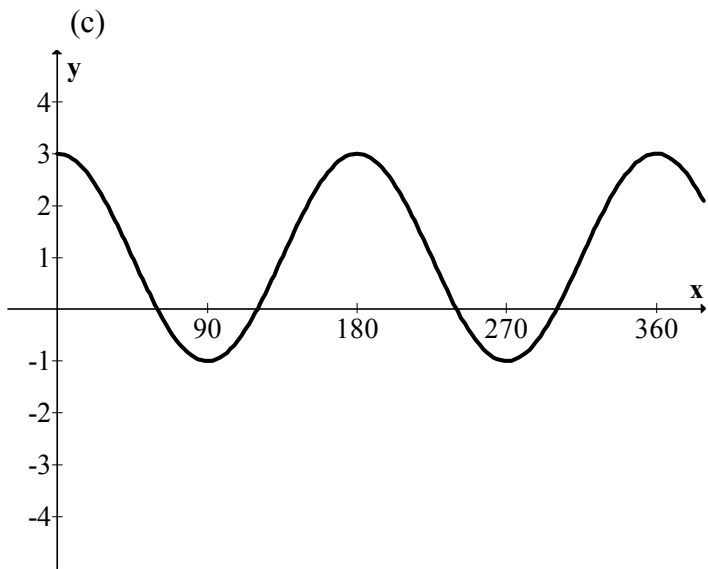
3. The graphs below are of the form $y = \sin bx + c$ or $y = \cos bx + c$.
In each case write down the values of b and c .



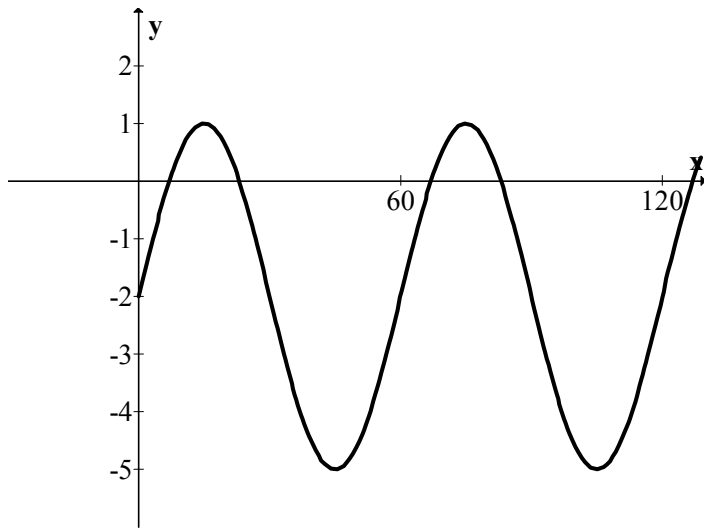


4. Each graph below is of the form $y = a \sin bx + c$ or $y = a \cos bx + c$.
For each question write down the values of a , b and c .

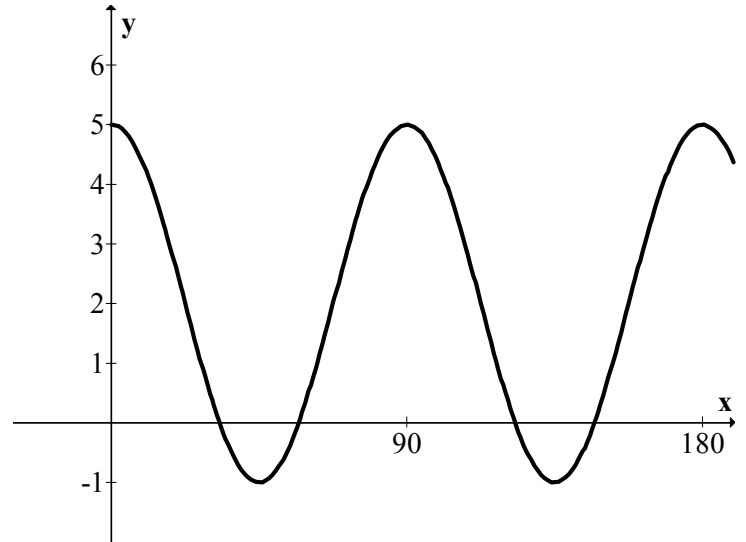




(i)

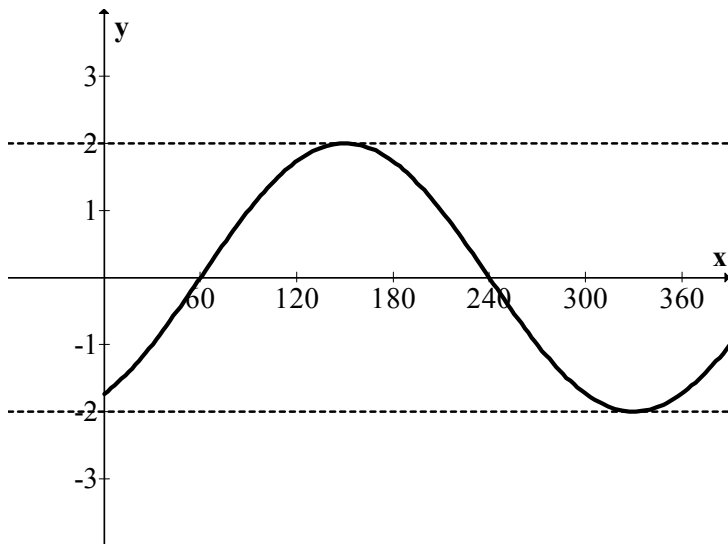


(j)

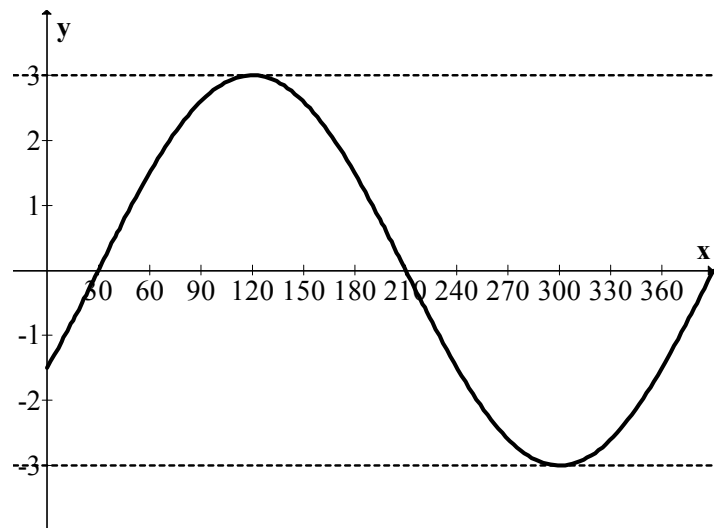


5. Each graph below is of the form $y = a \sin(x + b)$.
In each case write down the values of a and b .

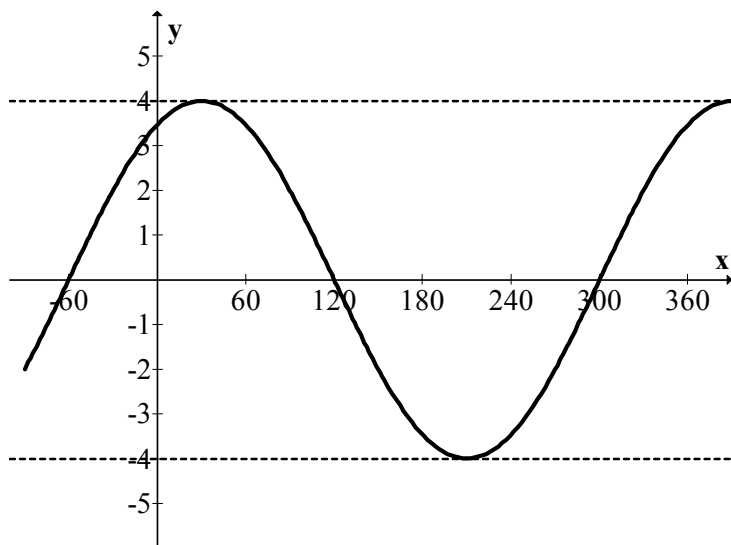
(a)



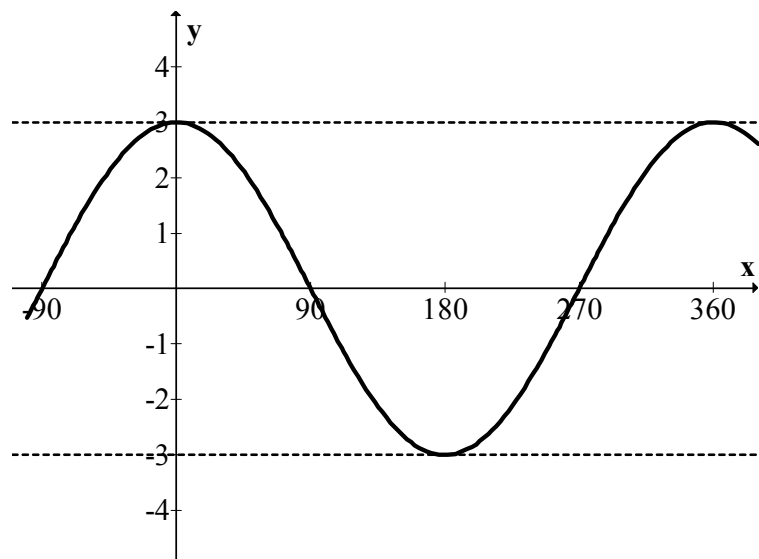
(b)



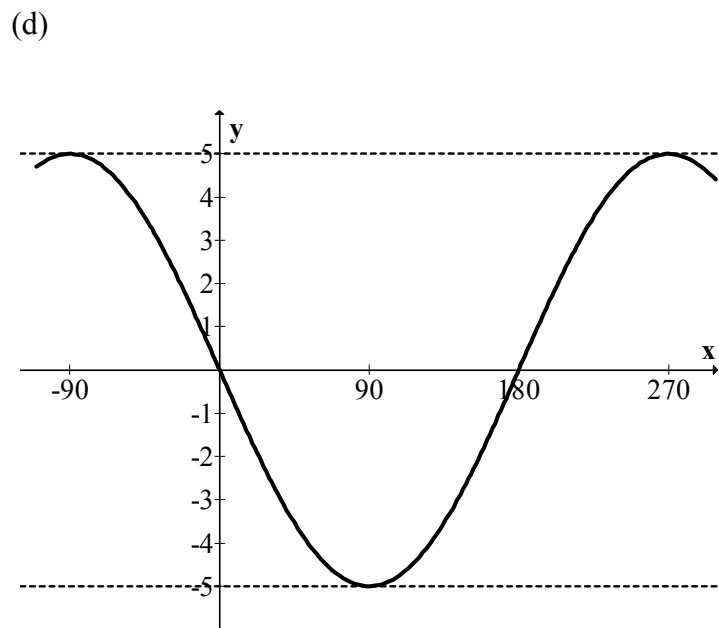
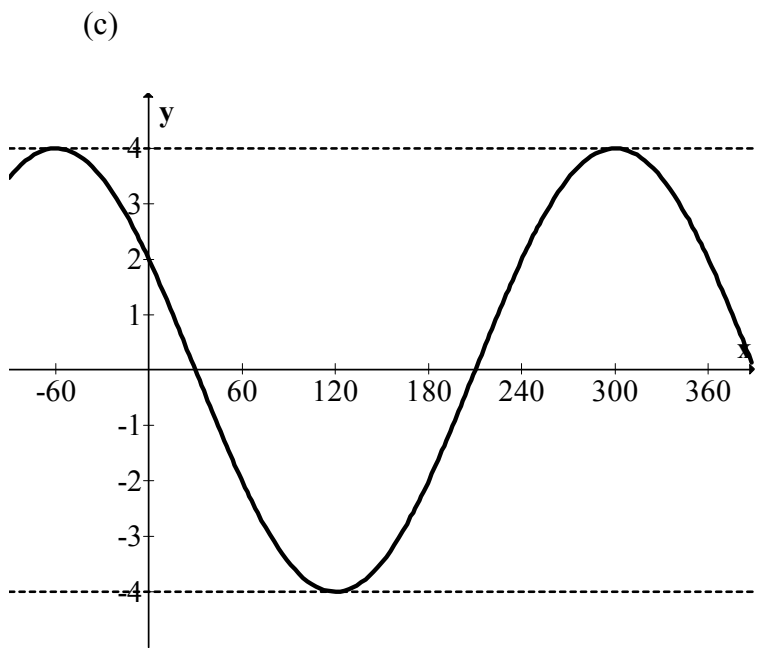
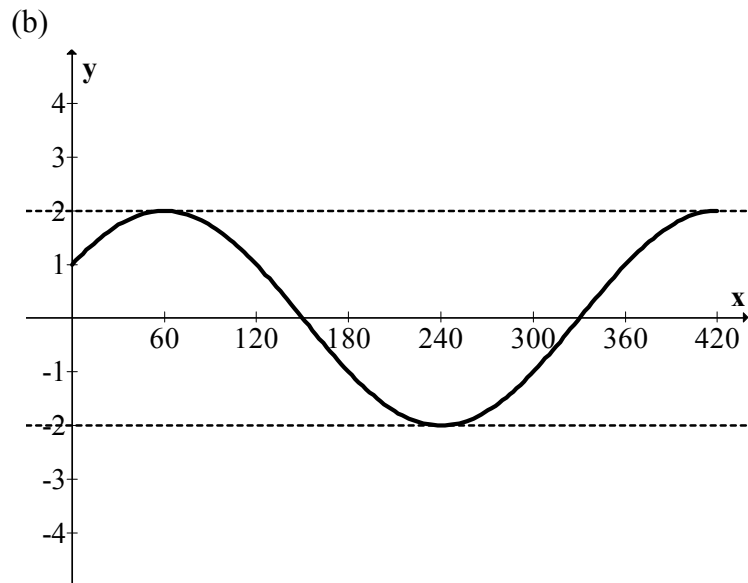
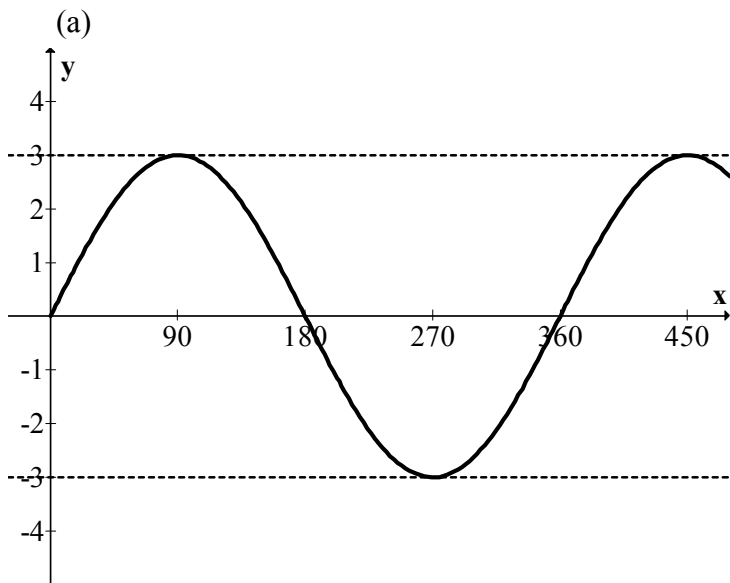
(c)



(d)



6. Each graph below is of the form $y = a \cos(x + b)$.
In each case write down the values of a and b .



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

(a) $y = 3 \cos x$

(b) $y = 2 \sin x$

(c) $y = \tan x$

(d) $y = 2 \sin 2x$

(e) $y = 4 \cos 2x$

(f) $y = 3 \sin 4x$

(g) $y = 5 \cos 3x$

(h) $y = 4 \sin 3x$

(i) $y = \tan 2x$

(j) $y = 3 \cos(x - 40)$

(k) $y = 4 \sin(x + 20)$

(l) $y = 4 \sin(x - 10)$