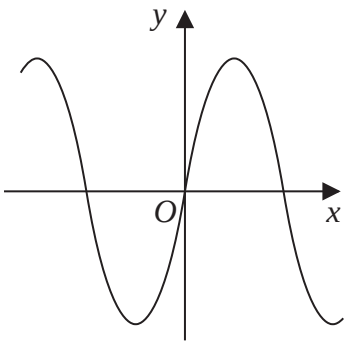
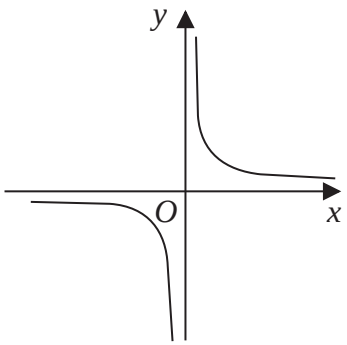
1 Here are nine graphs.

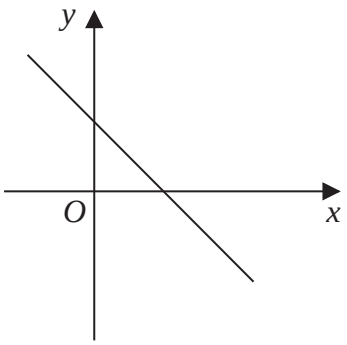
Graph A



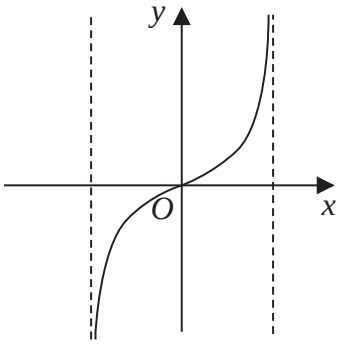
Graph B



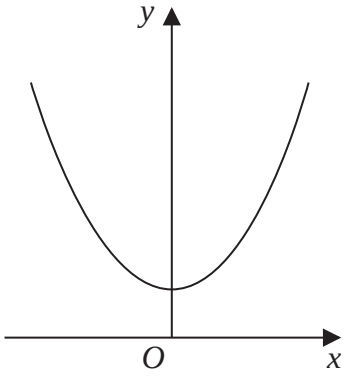
Graph C



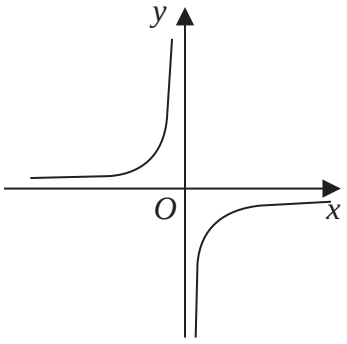
Graph D



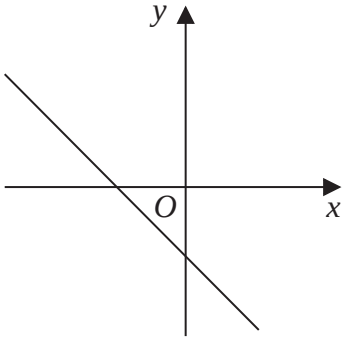
Graph E



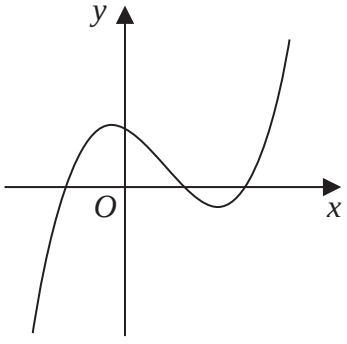
Graph F



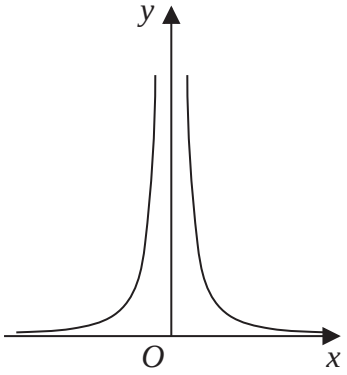
Graph G



Graph H



Graph I



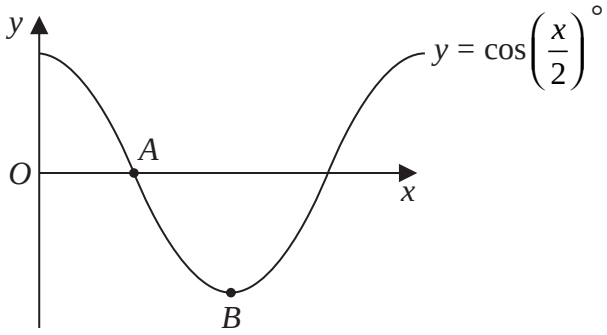
Complete the table below with the letter of the graph that could represent each given equation.
Write each answer on the dotted line.

Equation	Graph
$y = -2x + 3$ y-intercept at 3	C
$y = -\frac{1}{x}$	F
$y = \tan x°$	D
$y = (x + 1)(x - 1)(x - 2)$	H

3

(Total for Question 1 is 3 marks)

2 The diagram shows a sketch of the graph of $y = \cos\left(\frac{x}{2}\right)^\circ$



(i) Find the coordinates of the point A

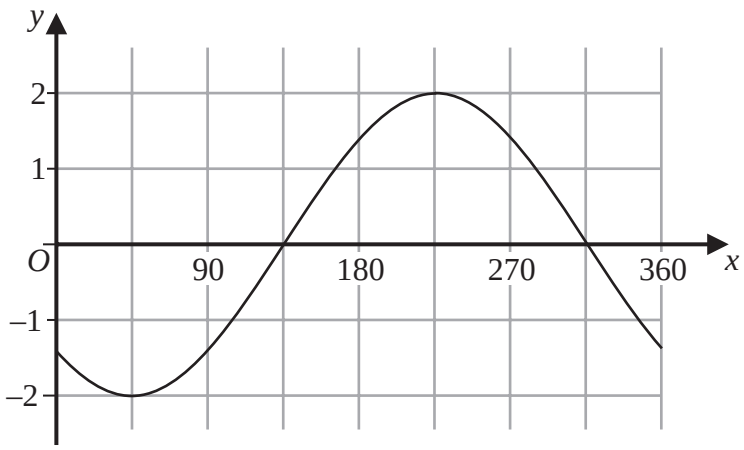
(180 , 0) (1)

(ii) Find the coordinates of the point B

(360 , −1) (1)

(Total for Question 2 is 2 marks)

3 Here is a sketch of the curve $y = a\cos(x + b)°$ for $0 \leqslant x \leqslant 360$



Given that $0 < b < 180$

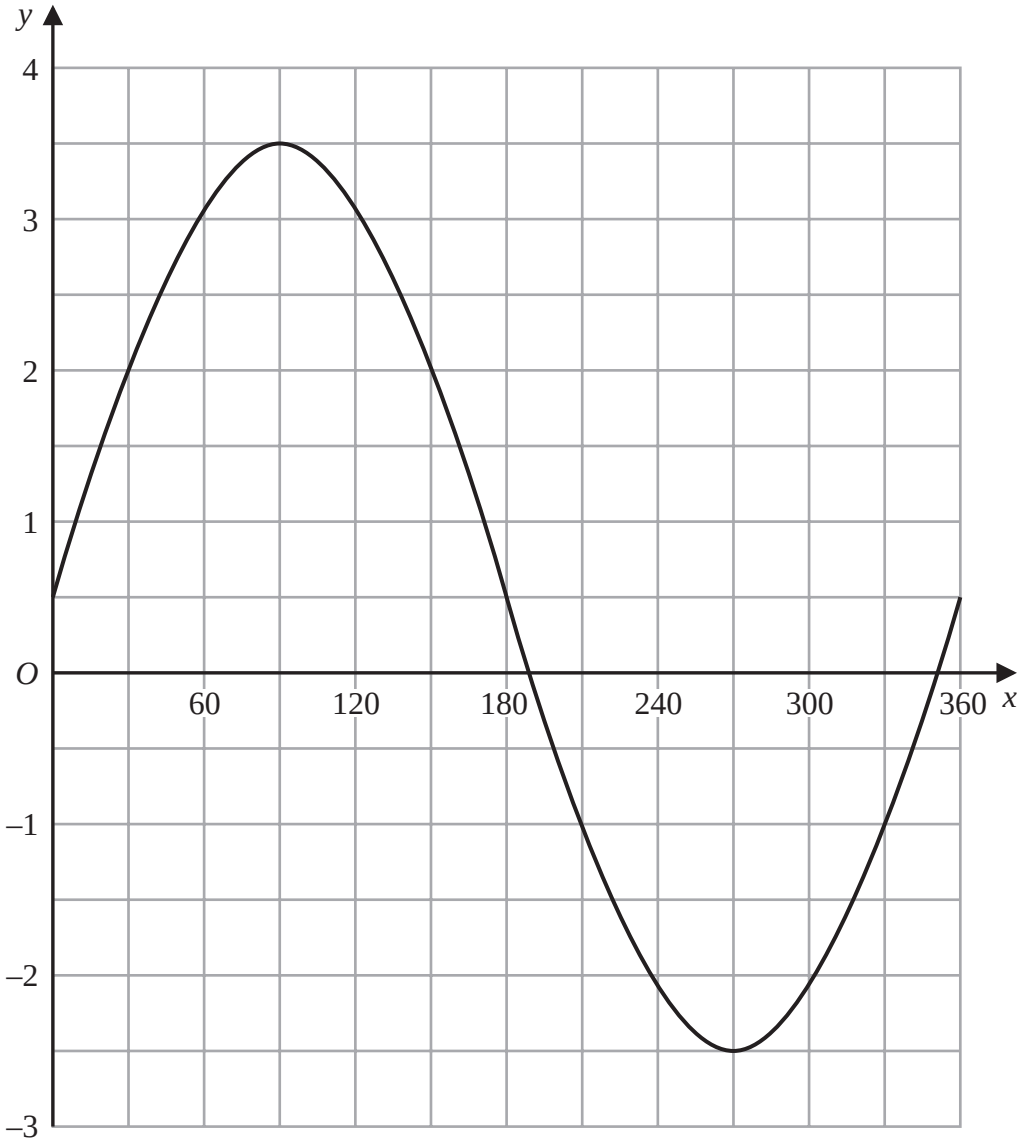
find the value of a and the value of b

$a =$ 2 (2)

$b =$ 135

(Total for Question 3 is 2 marks)

4 The graph of $y = a\sin x° + b$ is drawn on the grid.



Find the value of a and the value of b

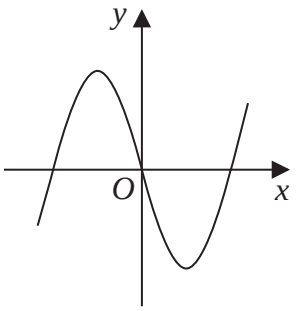
$a =$ 3 (1)

$b =$ 0.5 (1)

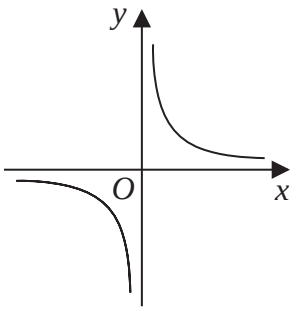
(Total for Question 4 is 2 marks)

5 Here are 6 graphs.

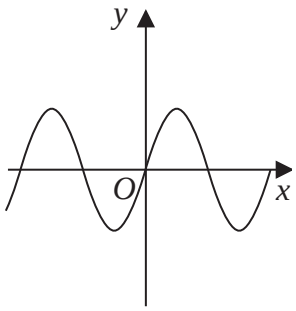
Graph A



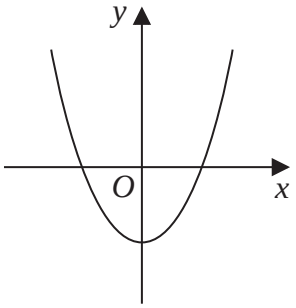
Graph B



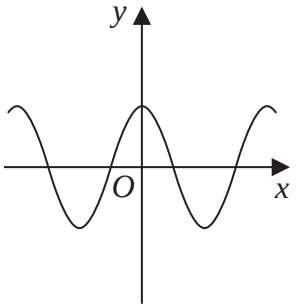
Graph C



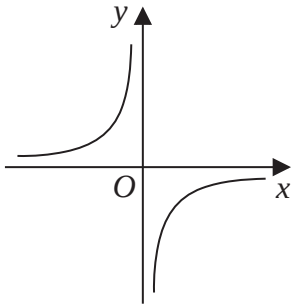
Graph D



Graph E



Graph F



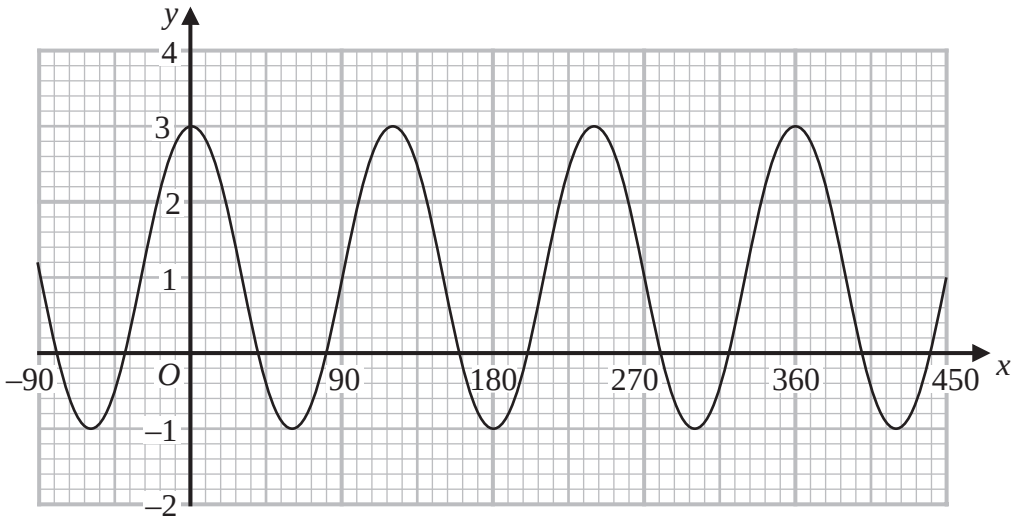
Complete the table below with the letter of the graph that could represent each given equation.

Write your answers on the dotted lines.

Equation	Graph
$y = \sin x$	C ..... (1)
$y = -\frac{3}{x}$	F ..... (1)
$y = 4x^3 - 5x$	A ..... (1)

(Total for Question 5 is 3 marks)

6 Here is a sketch of the curve with equation $y = a\cos bx° + c$ where $-90 \leqslant x \leqslant 450$



Find the value of a, the value of b and the value of c

$a =$ 2 (1)

$b =$ 3 (1)

$c =$ 1 (1)

(Total for Question 6 is 3 marks)