1 Here are nine graphs.

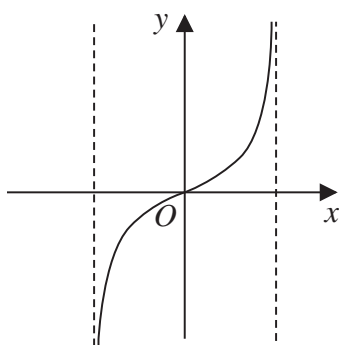**Graph A**
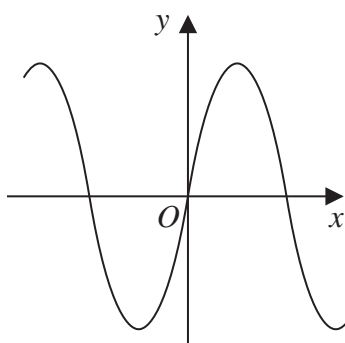
Graph B
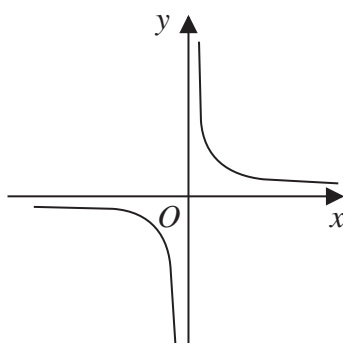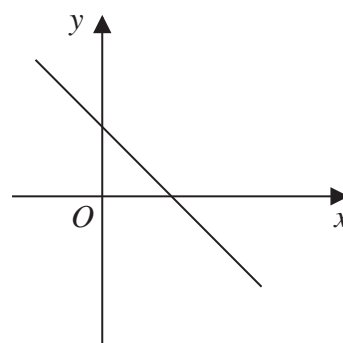
Graph C
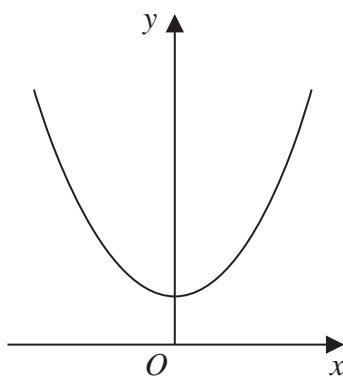
Graph D
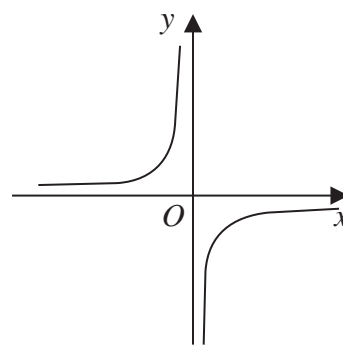
Graph E

Graph F

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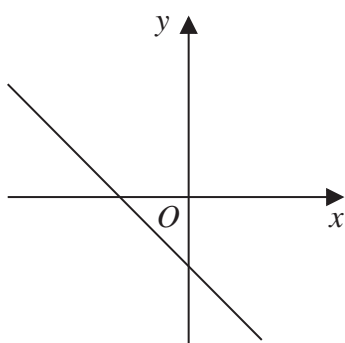
Graph H
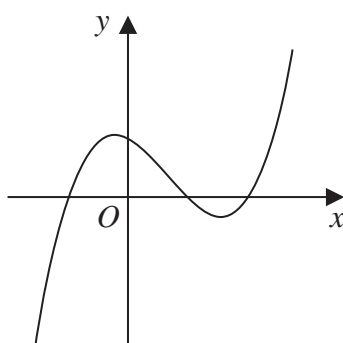
Graph I
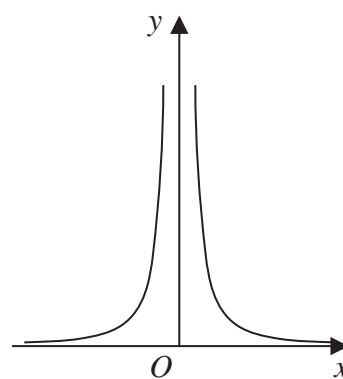
Complete the table below with the letter of the graph that could represent each given equation. Write each answer on the dotted line.

Equation	Graph
$y = -2x + 3$	....
$y = -\dfrac{1}{x}$	....
$y = \tan x°$	....
$y = (x + 1)(x - 1)(x - 2)$	....

(Total for Question 1 is 3 marks)

2. The diagram shows a sketch of the graph of $y = \cos\left(\dfrac{x}{2}\right)^{\circ}$
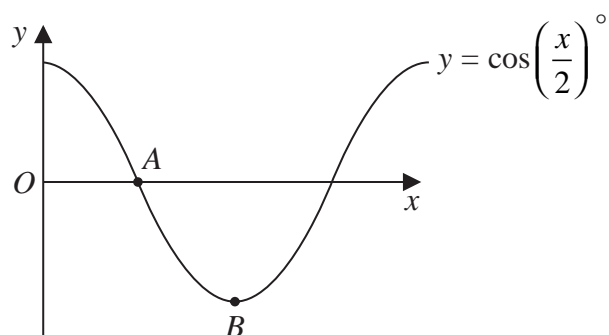
(i) Find the coordinates of the point *A*

(........................ , ...)

(1)

(ii) Find the coordinates of the point *B*

(........................ , ...)

(1)

(Total for Question 2 is 2 marks)

3 Here is a sketch of the curve $y = a\cos(x + b)^\circ$ for $0 \leqslant x \leqslant 360$
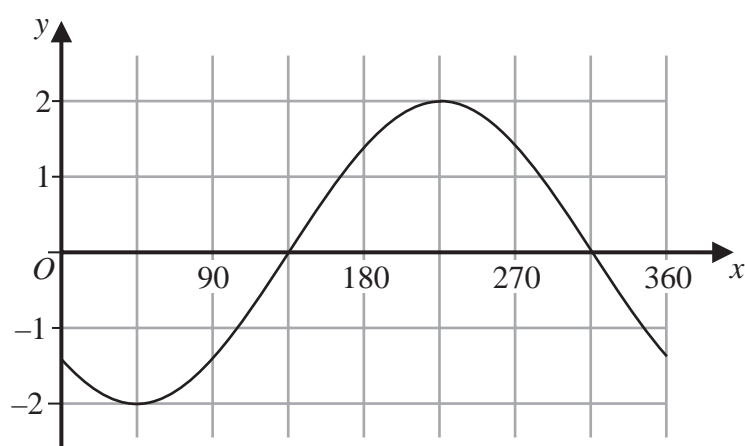
Given that $0 < b < 180$

find the value of a and the value of b

$a = $ ....

$b = $ ....

(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 = $ ....

$b = $ ....
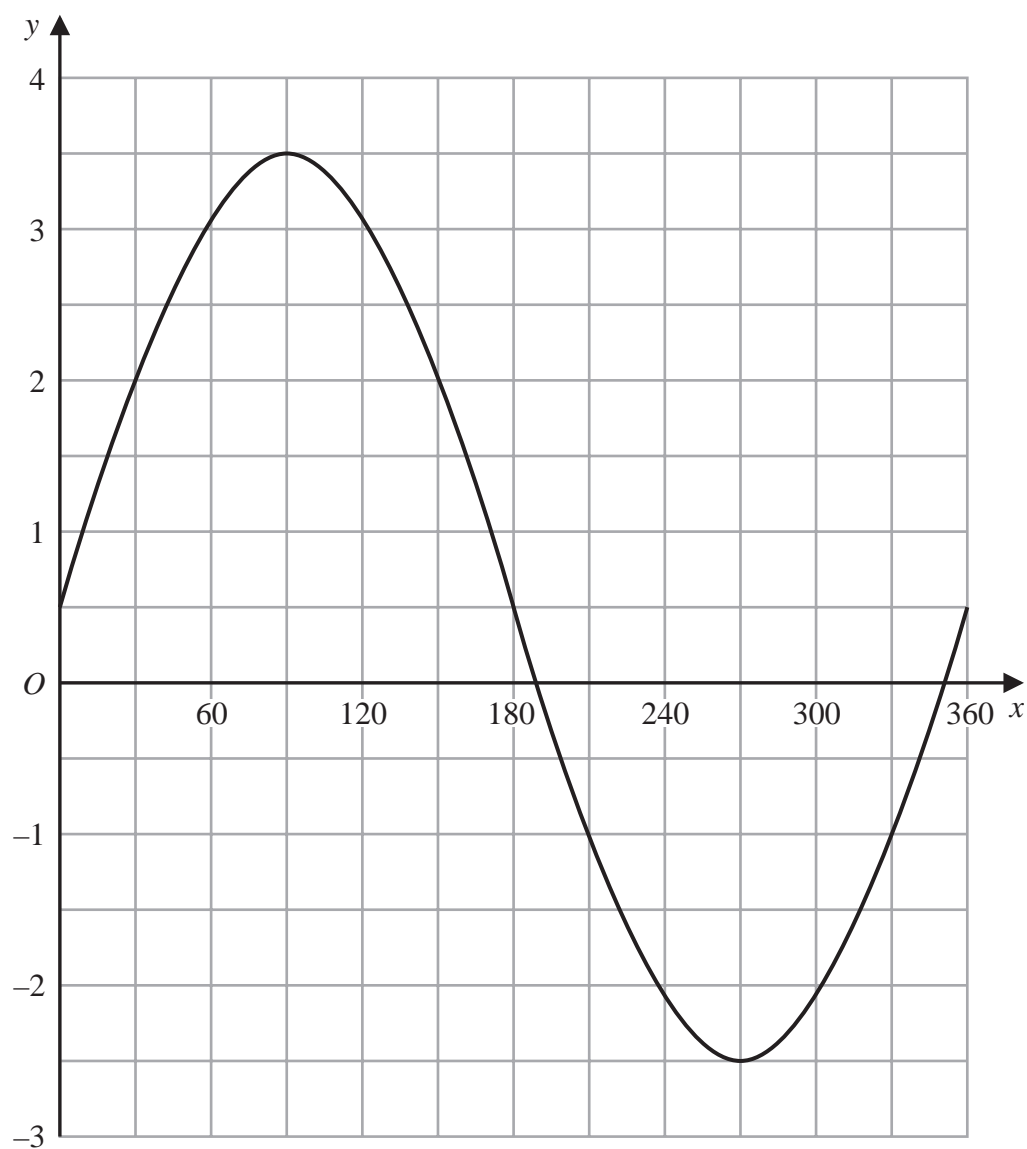
(Total for Question 4 is 2 marks)

5 Here are 6 graphs.
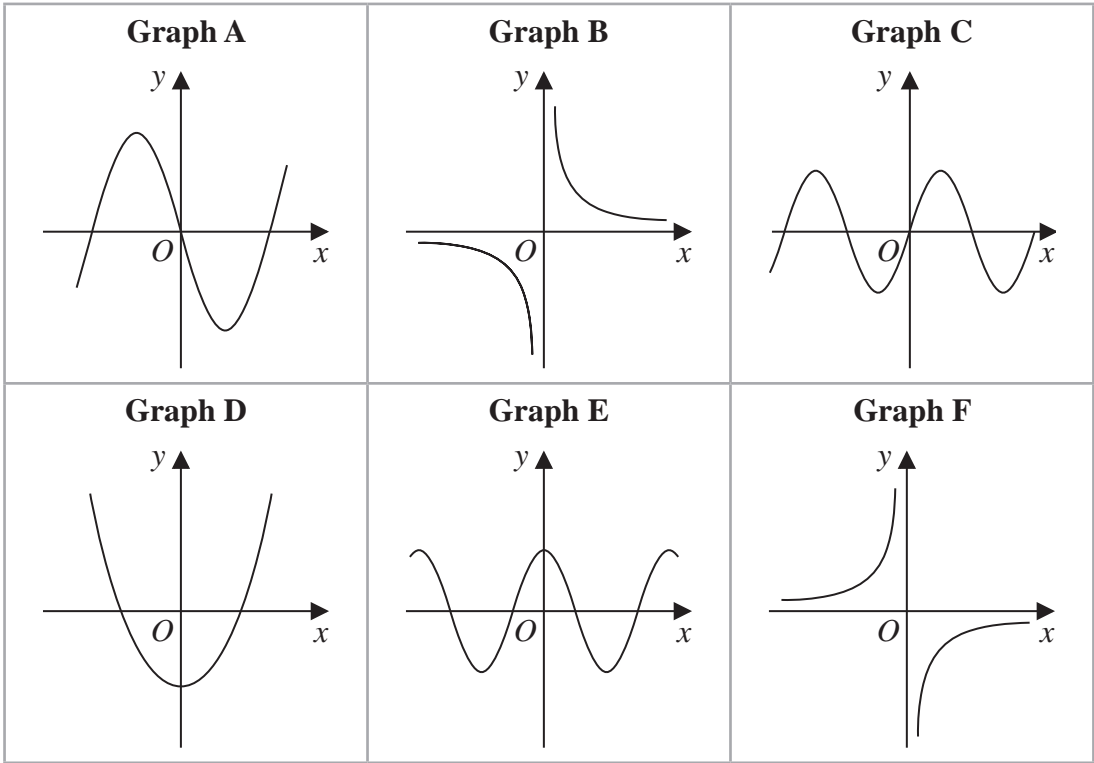
Graph A	Graph B	Graph C
Graph D	**Graph E**	**Graph F**

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
$y = \sin x$	....
$y = -\dfrac{3}{x}$	....
$y = 4x^3 - 5x$	....

(Total for Question 5 is 3 marks)

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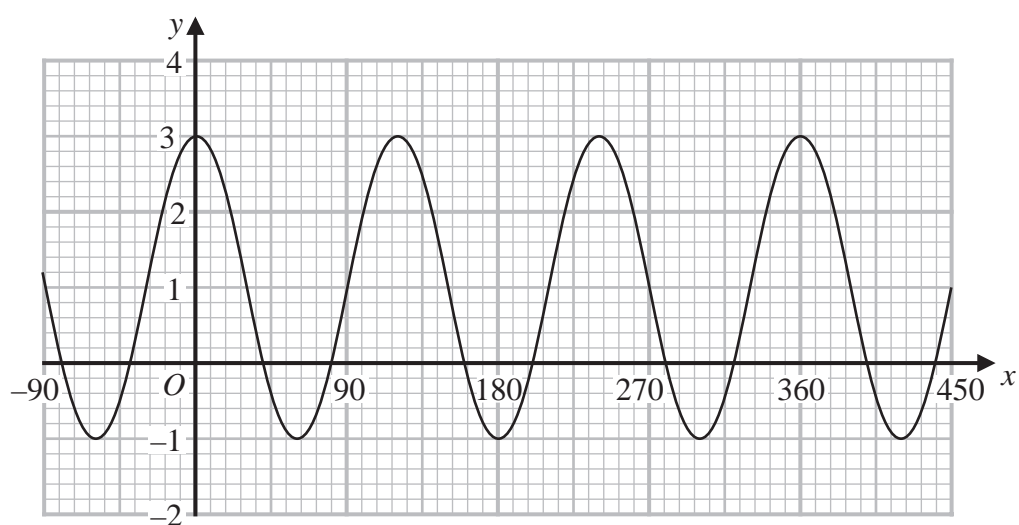

Find the value of a, the value of b and the value of c

$a = $ ....

$b = $ ....

$c = $ ....

(Total for Question 6 is 3 marks)