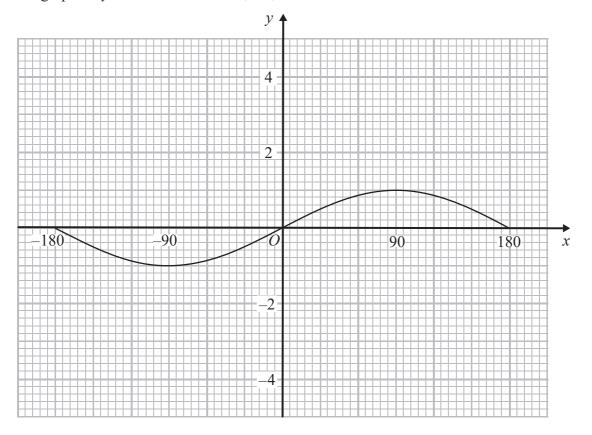
<u>Summer 2018 Paper 1 Q18</u>

1 Here is the graph of $y = \sin x^{\circ}$ for $-180 \leqslant x \leqslant 180$

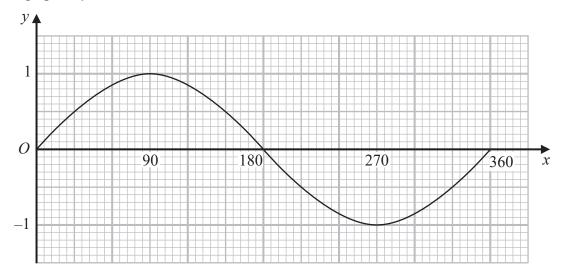


On the grid, sketch the graph of $y = \sin x^{\circ} - 2$ for $-180 \leqslant x \leqslant 180$

(Total for Question 1 is 2 marks)

<u>Summer 2021 Paper 2 Q18</u>

3 Here is a graph of $y = \sin x^{\circ}$ for $0 \leqslant x \leqslant 360$



(a) Using this graph, find estimates of all four solutions of

$$\sin x^{\circ} = 0.6 \quad \text{for } 0 \leqslant x \leqslant 720$$

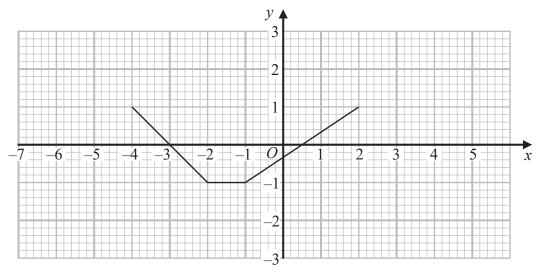
(2)

The graph of $y = \sin x^{\circ}$ is reflected in the *x*-axis.

(b) Write down an equation of the reflected graph.

(1)

Here is a graph of y = f(x)



(c) On the grid, draw the graph of y = f(x - 2)

(1)

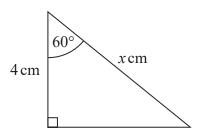
(Total for Question 3 is 4 marks)

4	(a)	Write	down	the	exact	value	of tan	45°
-	()						0 1 00011	

Autumn 2018 Paper 1 Q8

(1)

Here is a right-angled triangle.



 $\cos 60^{\circ} = 0.5$

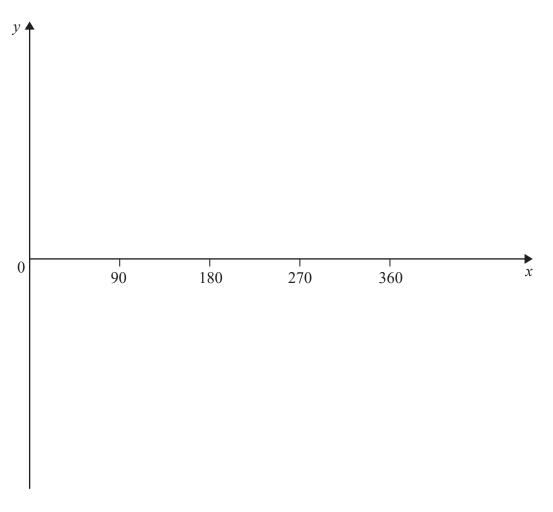
(b) Work out the value of *x*.

(2)

(Total for Question 4 is 3 marks)

Autumn 2018 Paper 3 Q11

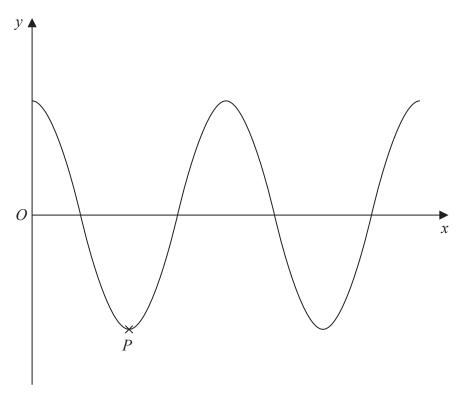
5 Sketch the graph of $y = \tan x^{\circ}$ for $0 \le x \le 360$



(Total for Question 5 is 2 marks)

<u>Autumn 2022 Paper 1 Q21</u>





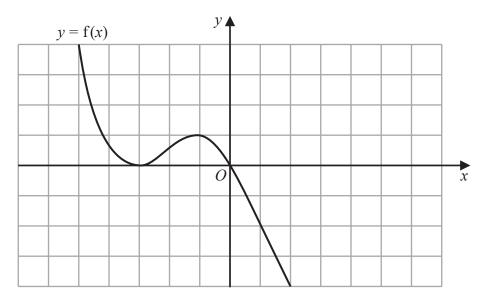
The diagram shows a sketch of part of the curve with equation $y = \cos x^{\circ}$ P is a minimum point on the curve.

Write down the coordinates of P.

(Total for Question 6 is 2 marks)

<u>Summer 2022 Paper 2 Q21</u>

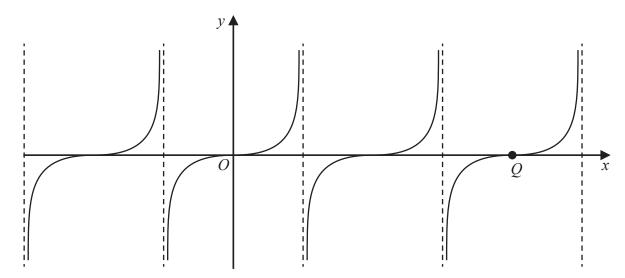
7 The graph of y = f(x) is shown on the grid below.



(a) On the grid above, sketch the graph of y = f(-x)

(1)

Here is a sketch of the graph of $y = \tan x^{\circ}$



The graph of $y = \tan x^{\circ}$ is translated to give the graph of y = g(x)

Following the translation the point Q, shown on the graph above, moves to point R. Point R has coordinates (90, -5)

(b) Find an expression for g(x) in terms of x.

(2)

<u>Autumn 2017 Paper 1 Q20</u>

8 The table shows some values of x and y that satisfy the equation $y = a \cos x^{\circ} + b$

x	0	30	60	90	120	150	180
y	3	$1+\sqrt{3}$	2	1	0	$1-\sqrt{3}$	-1

Find the value of y when x = 45

(Total for Question 8 is 4 marks)