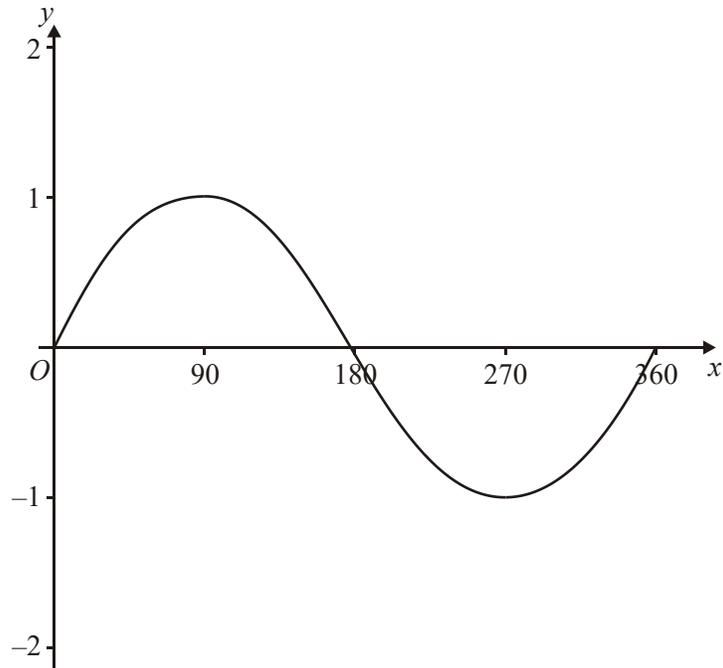
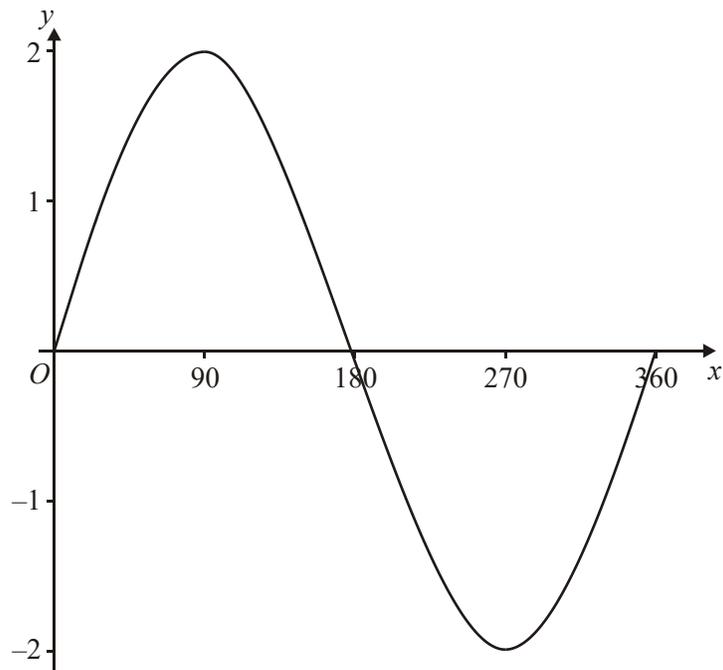


# Trig Graphs

1. A sketch of the curve  $y = \sin x^\circ$  for  $0 \leq x \leq 360$  is shown below.



(a) Using the sketch above, or otherwise, find the equation of the following curve.



(ii) Equation  $y = \dots\dots\dots$

**(2 marks)**

2. Diagram 1 is a sketch of part of the graph of  $y = \sin x^\circ$ .

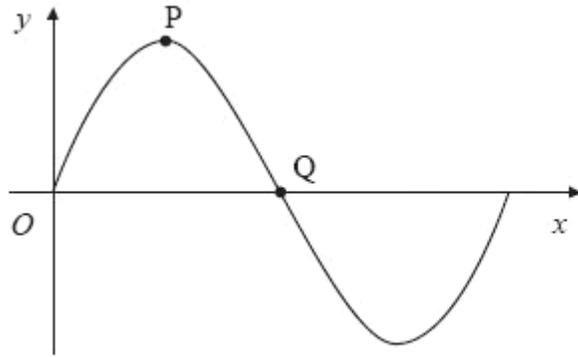


Diagram 1

- (a) Write down the coordinates of

- (i)  $P$ , (....., .....)
- (ii)  $Q$ . (....., .....)

(2)

Diagram 2 is a sketch of part of the graph of  $y = 3 \cos 2x^\circ$ .

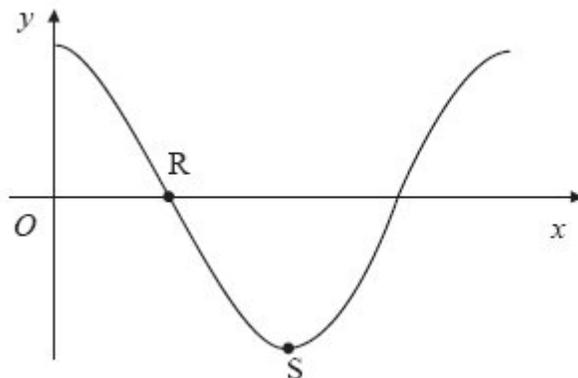


Diagram 2

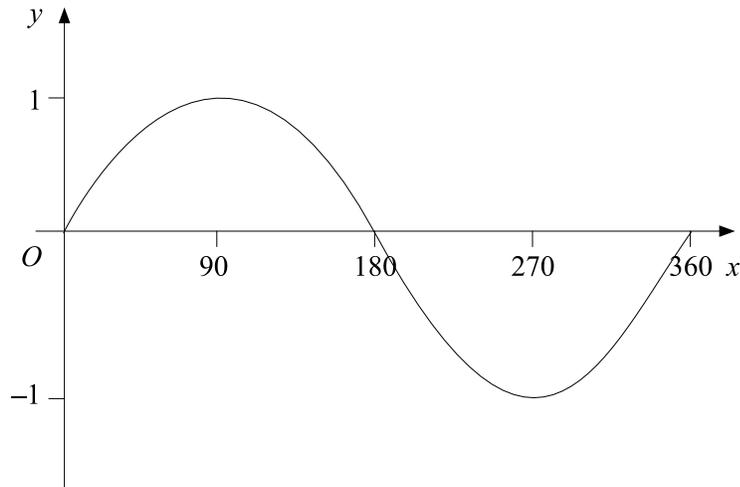
- (b) Write down the coordinates of

- (i)  $R$ , (....., .....)
- (ii)  $S$  (....., .....)

(2)

(Total 4 marks)

4. Here is a sketch of the curve  $y = \sin x^\circ$  for  $0 \leq x \leq 360$ .

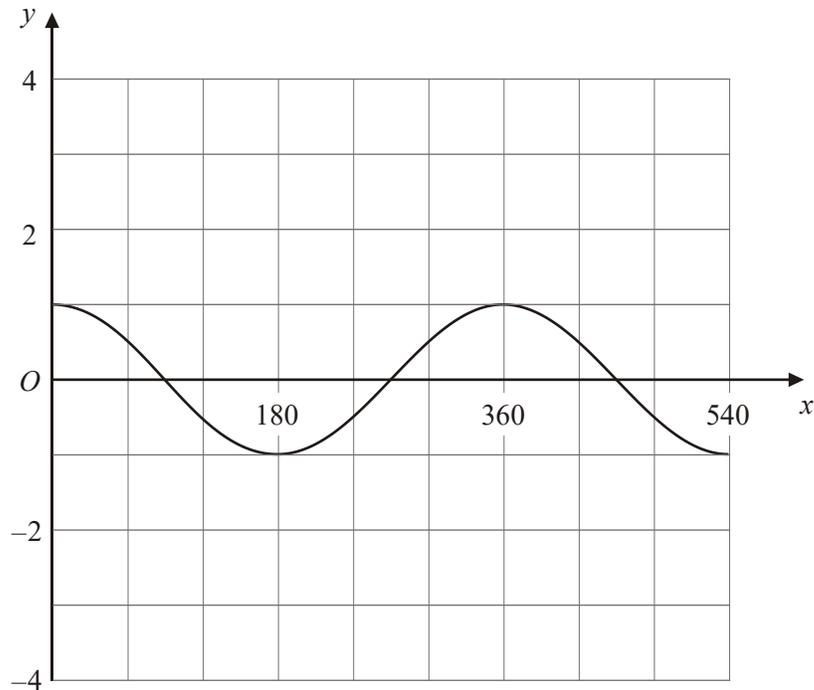


(a) Given that  $\sin 30^\circ = \frac{1}{2}$ , write down the value of

(i)  $\sin 150^\circ$  .....

(ii)  $\sin 330^\circ$  .....

(2)



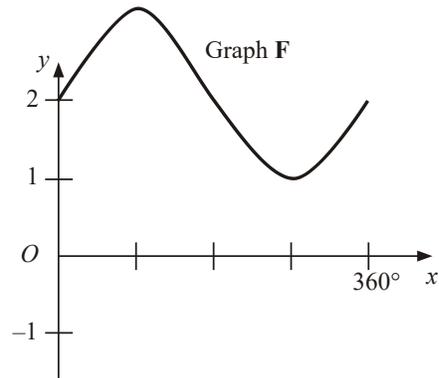
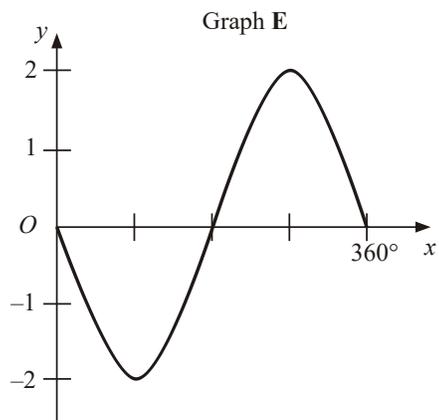
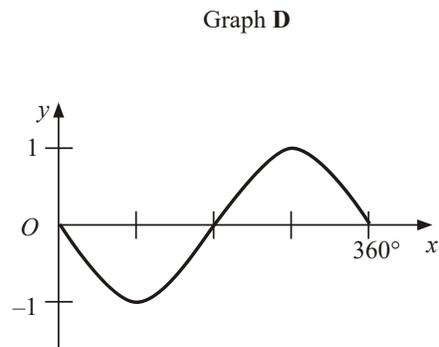
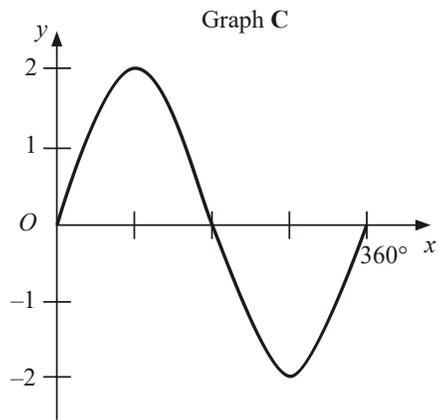
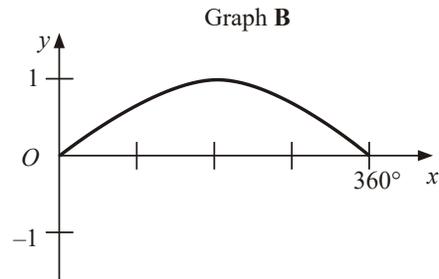
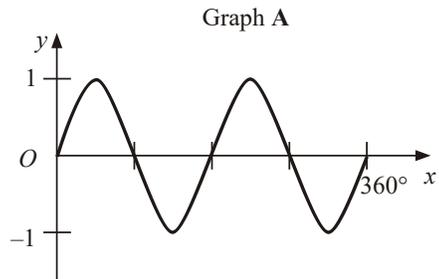
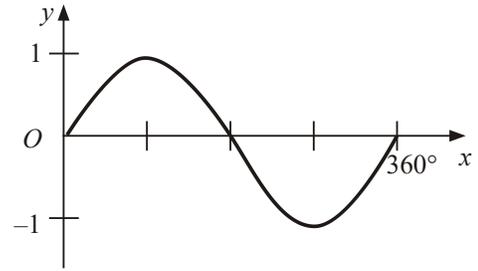
The grid shows the graph of  $y = \cos x^\circ$  for values of  $x$  from 0 to 540

(b) On the grid, sketch the graph of  $y = 3 \cos (2x)$  for values of  $x$  from 0 to 540

(2)

(Total 4 marks)

6. Here is the graph of  $y = \sin x$ , where  $0^\circ \leq x \leq 360^\circ$



Match each of the graphs A, B, C, D, E and F to the equations in the table.

Equation	Graph
$y = 2 \sin x$	
$y = -\sin x$	
$y = \sin 2x$	

Equation	Graph
$y = \sin x + 2$	
$y = \sin \frac{1}{2} x$	
$y = -2\sin x$	

(Total 4 marks)