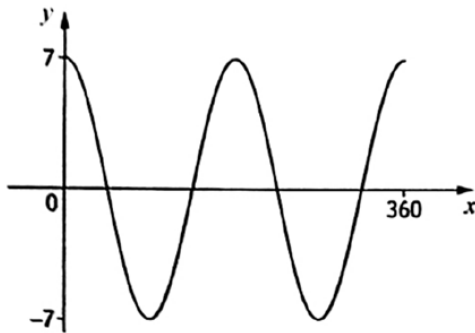


SQA Past paper questions

2024 - Paper 1 - Question 8

The graph of $y = a \cos bx^\circ$, $0 \leq x \leq 360$, is shown.



(a) State the value of a . 1

(b) State the value of b . 1

Click [here](#) for video solution. 

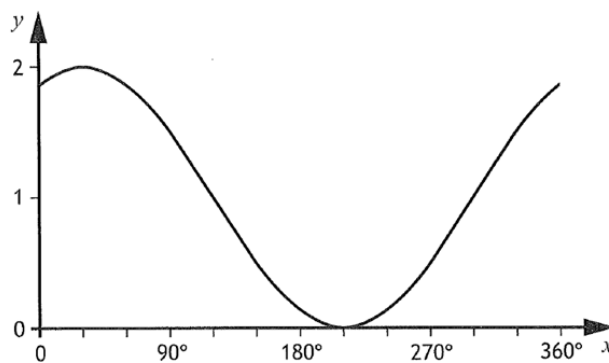
2023 - Paper 1 - Question 11

Given that $\sin 30^\circ = 0.5$, state the value of $\sin 330^\circ$. 1

Click [here](#) for video solution. 

2023 - Paper 1 - Question 13

Part of the graph of $y = \cos(x + a)^\circ + b$ is shown.



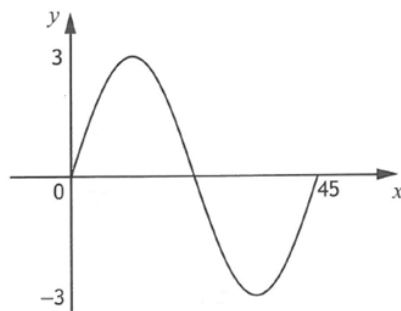
(a) State the value of a . 1

(b) State the value of b . 1

Click [here](#) for video solution. 

2022 - Paper 1 - Question 8

Part of the graph of $y = a \sin bx^\circ$ is shown in the diagram.



(a) State the value of a .

1

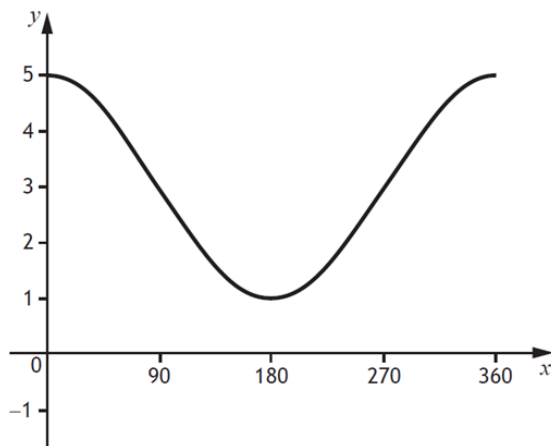
(b) State the value of b .

1

Click [here](#) for video solution. 

2021 - Paper 1 - Question 13

The graph of $y = a \cos x^\circ + b$, $0 \leq x \leq 360$, is shown.



State the values of a and b .

2

Click [here](#) for video solution. 

2021 - Paper 1 - Question 16

The function $f(x)$ is defined by $f(x) = 4 \sin 3x^\circ$.

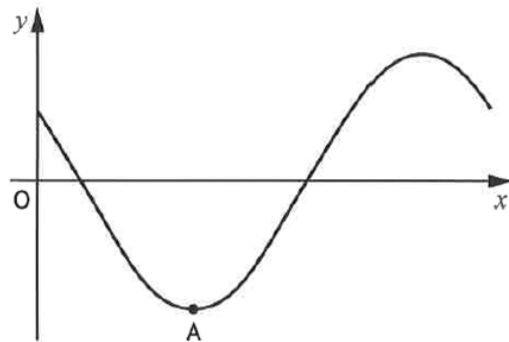
Evaluate $f(90)$.

2

Click [here](#) for video solution. 

2019 - Paper 1 - Question 13

Part of the graph of $y = 3\cos(x + 45)^\circ$ is shown in the diagram.



The graph has a minimum turning point at A.

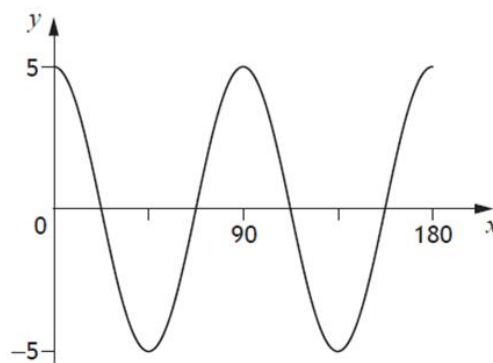
State the coordinates of A.

2

Click [here](#) for video solution. 

2018 - Paper 1 - Question 6

Part of the graph of $y = a\cos bx^\circ$ is shown in the diagram.



State the values of a and b .

2

Click [here](#) for video solution. 

2018 - Paper 1 - Question 12

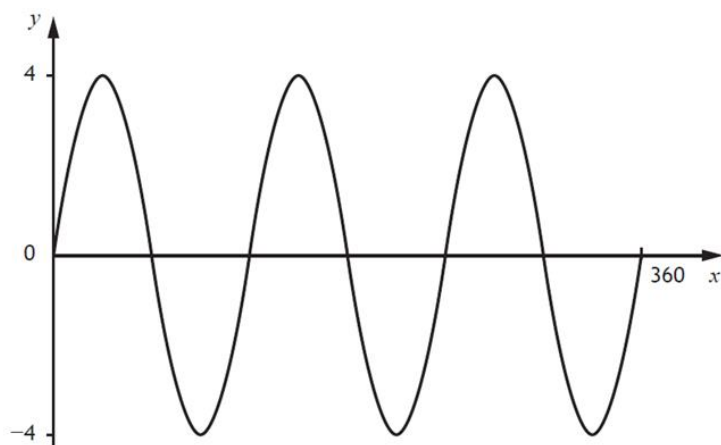
Given that $\cos 60^\circ = 0.5$, state the value of $\cos 240^\circ$.

1

Click [here](#) for video solution. 

2015 - Paper 1 - Question 6

Part of the graph of $y = a \sin bx^\circ$ is shown in the diagram.

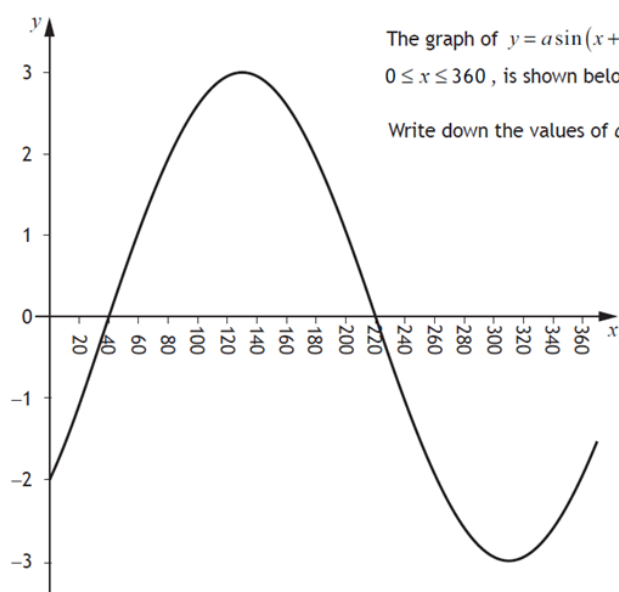


State the values of a and b .

2

Click [here](#) for video solution. 

2014 - Paper 1 - Question 10



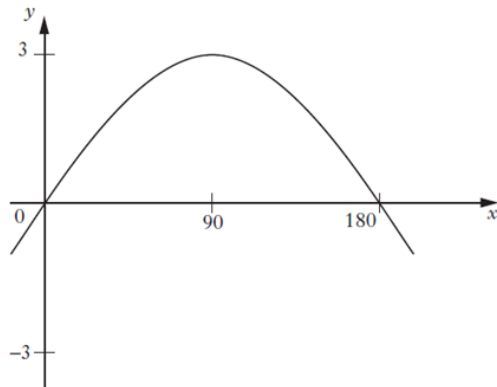
The graph of $y = a \sin(x + b)^\circ$,
 $0 \leq x \leq 360$, is shown below.

Write down the values of a and b .

2

Click [here](#) for video solution. 

2014 - Paper 1 - Question 7



Part of the graph of $y = a \sin bx^\circ$ is shown in the diagram.

State the values of a and b .

2

Click [here](#) for video solution. 

2013 - Paper 1 - Question 8

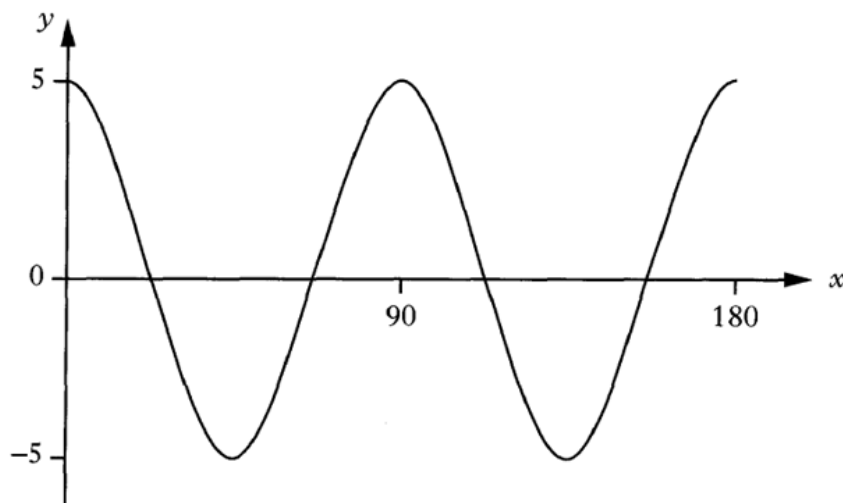
State the period of $y = \sin 2x^\circ$.

1

Click [here](#) for video solution. 

2011 - Paper 1 - Question 7

Part of the graph of $y = a \cos bx^\circ$ is shown in the diagram.



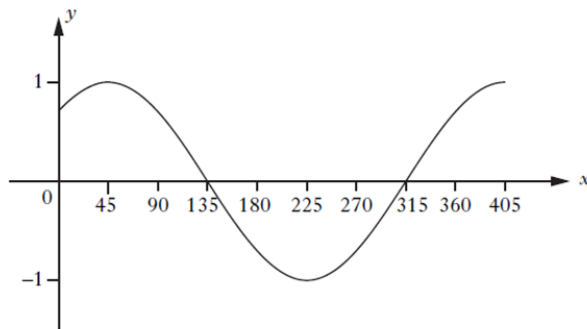
State the values of a and b .

2

Click [here](#) for video solution. 

2010 - Paper 1 - Question 9

The graph shown below has an equation of the form $y = \cos(x - a)^\circ$.



Write down the value of a .

1

Click [here](#) for video solution. 

2009 - Paper 1 - Question 7

An angle, a° , can be described by the following statements.

- a is greater than 0 and less than 360
- $\sin a^\circ$ is negative
- $\cos a^\circ$ is positive
- $\tan a^\circ$ is negative

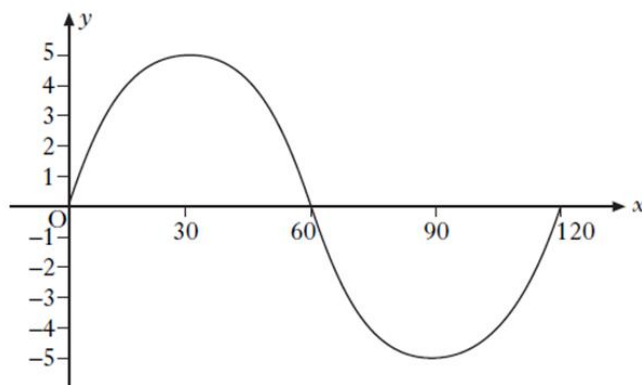
Write down a possible value for a .

1

Click [here](#) for video solution. 

2008 - Paper 1 - Question 8

Part of the graph of $y = a \sin bx^\circ$ is shown in the diagram.



State the values of a and b .

2

Click [here](#) for video solution. 

2007 - Paper 1 - Question 8

Given that

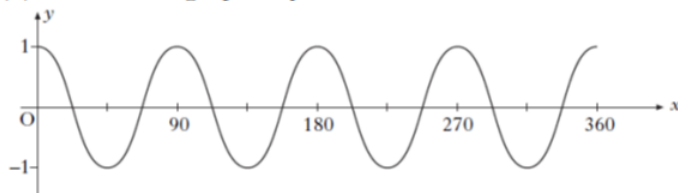
$$\cos 60^\circ = 0.5,$$

what is the value of $\cos 240^\circ$?

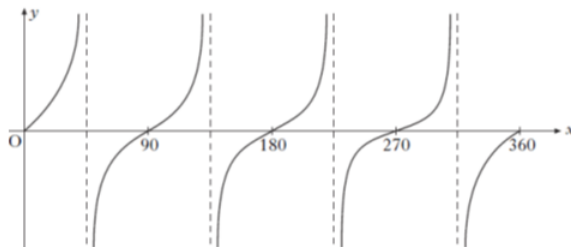
1

Click [here](#) for video solution. 

2007 - Paper 1 - Question 10

(a) Part of the graph of $y = \cos ax^\circ$ is shown below.State the value of a .

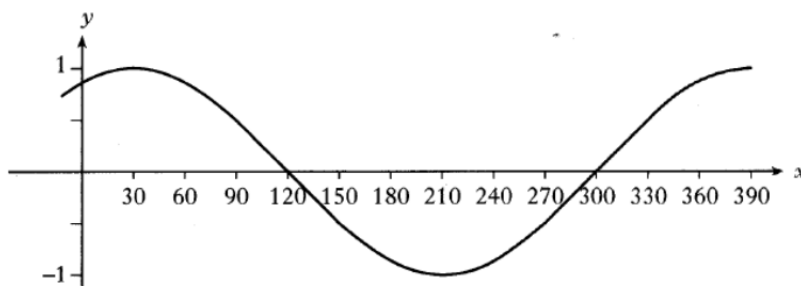
1

(b) Part of the graph of $y = \tan bx^\circ$ is shown below.State the value of b .

1

Click [here](#) for video solution. 

2006 - Paper 1 - Question 8

The graph shown below has an equation of the form $y = \cos(x - a)^\circ$.Write down the value of a .

1

Click [here](#) for video solution. 

2005 - Paper 1 - Question 6

Given that

$$\tan 45^\circ = 1,$$

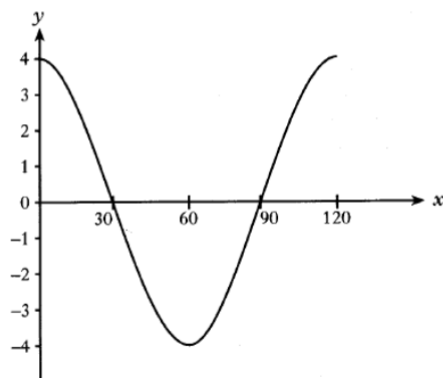
what is the value of $\tan 135^\circ$?

1

Click [here](#) for video solution. 

2004 - Paper 1 - Question 6

Part of the graph of $y = b \cos ax^\circ$ is shown in the diagram.



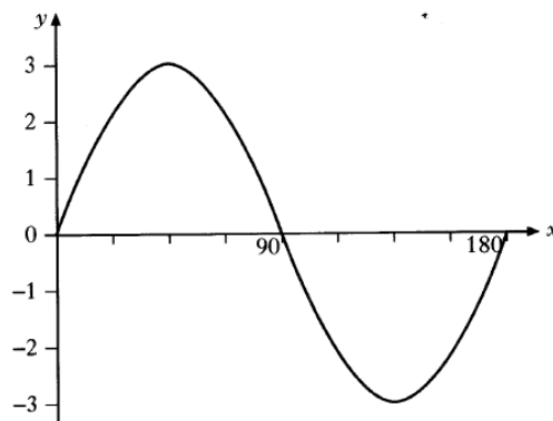
State the values of a and b

2

Click [here](#) for video solution. 

2003 - Paper 1 - Question 5

Part of the graph of $y = a \sin bx^\circ$ is shown in the diagram.

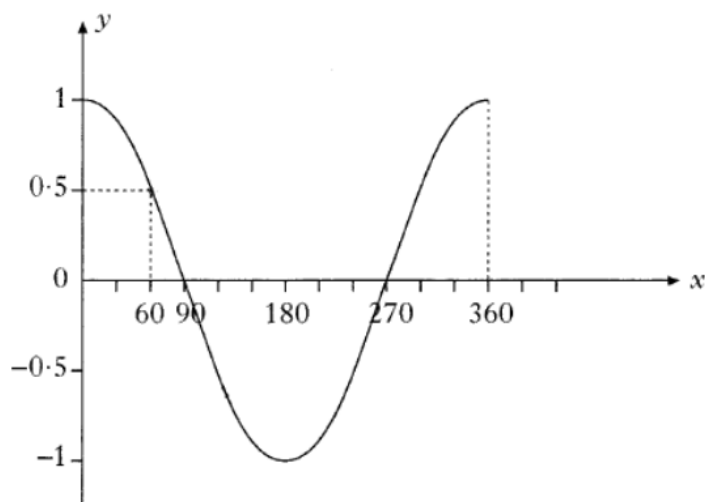


State the values of a and b .

2

Click [here](#) for video solution. 

2002 - Paper 1 - Question 3



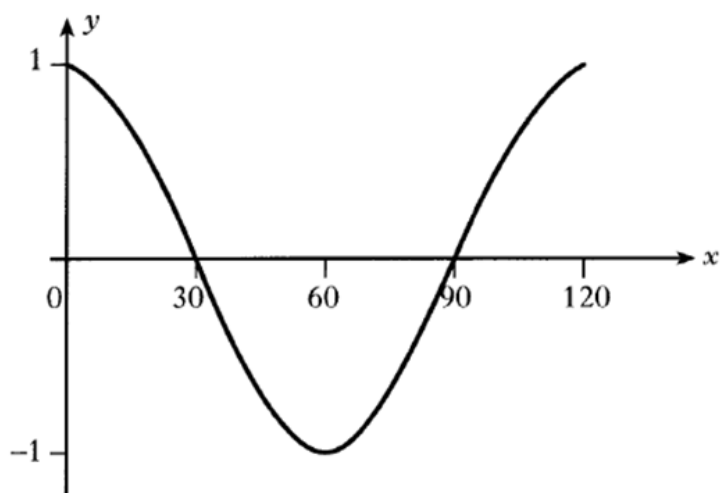
Part of the graph of $y = \cos x^\circ$ is shown above.

If $\cos 60^\circ = 0.5$, state two values for x for which $\cos x^\circ = -0.5$, $0 \leq x \leq 360$.

2

Click [here](#) for video solution. 

2001 - Paper 1 - Question 6



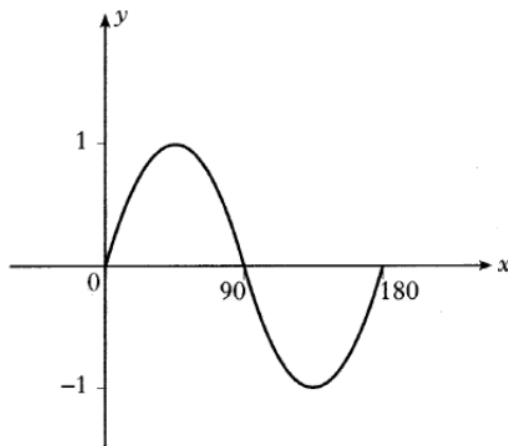
Part of the graph of $y = \cos bx^\circ$ is shown in the diagram.

State the value of b .

1

Click [here](#) for video solution. 

2000 - Paper 1 - Question 7



The graph of $y = \sin bx^\circ$ is shown in the diagram.
State the value of b .

1

Click [here](#) for video solution. 