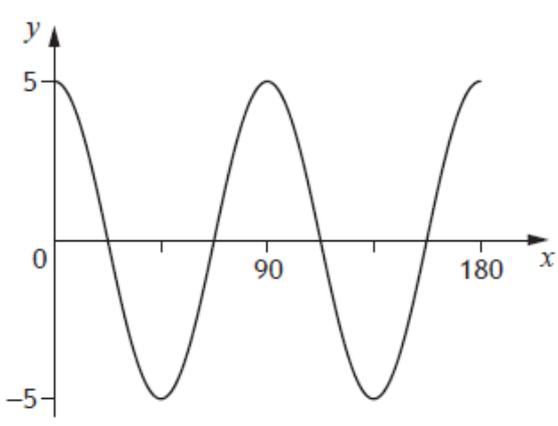
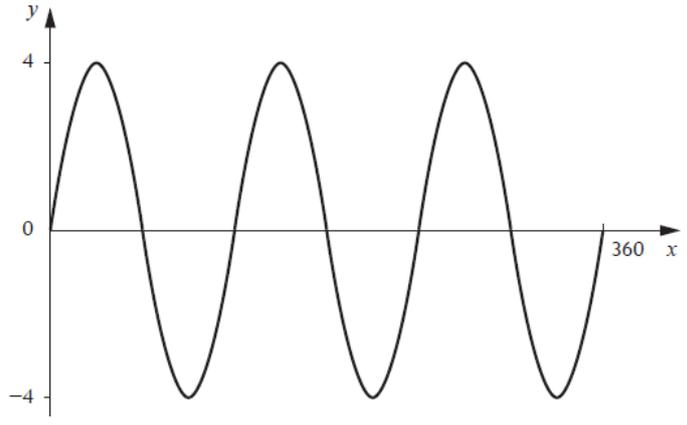
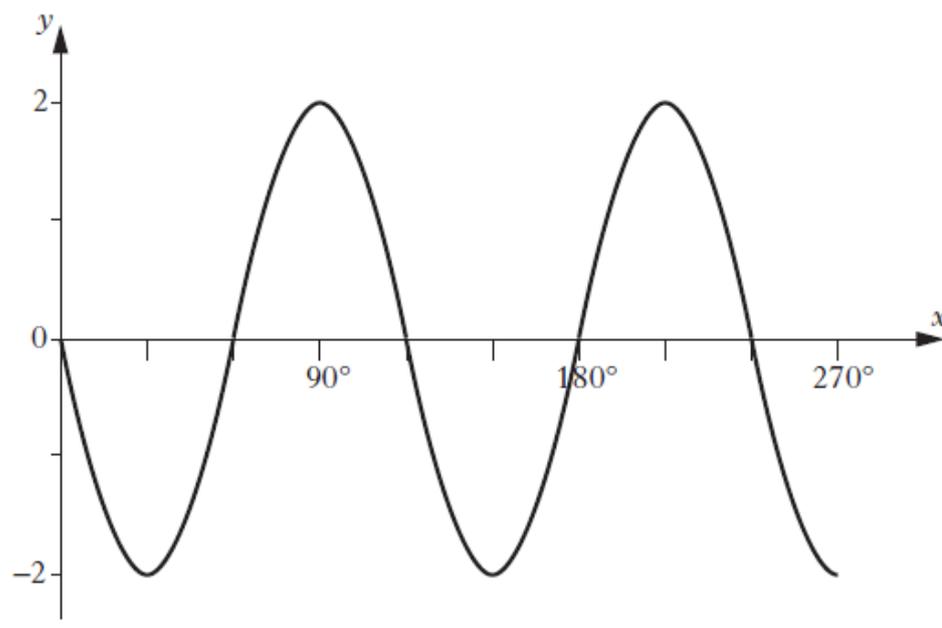
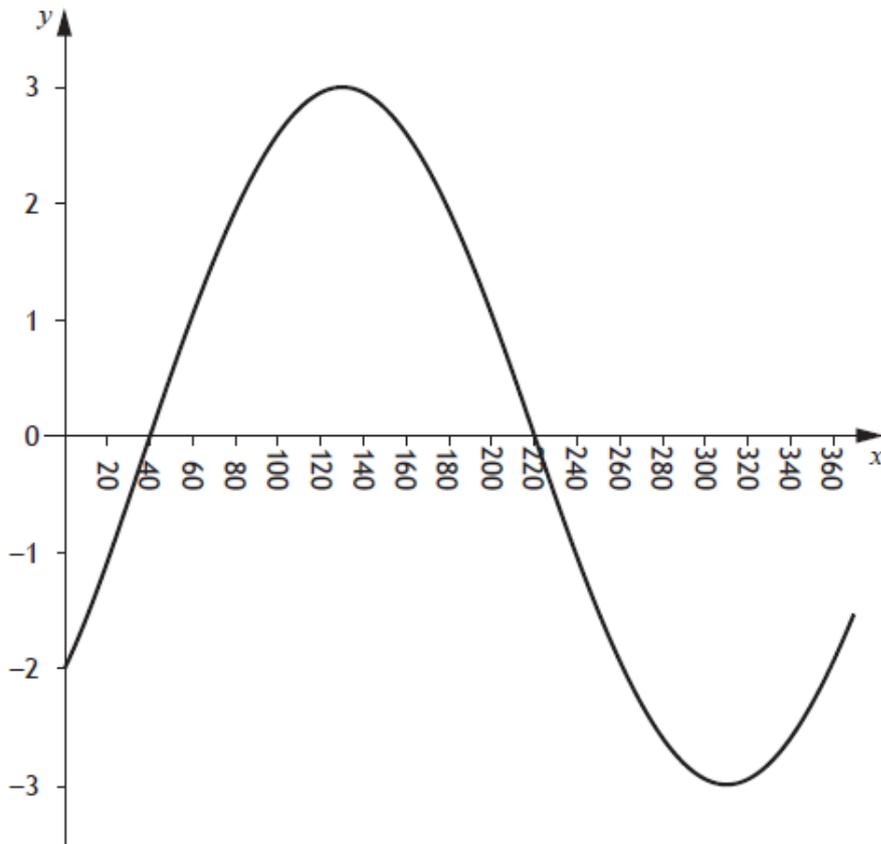


<p>2018 P1 Q6</p>	<p>Part of the graph of $y = a \cos bx^\circ$ is shown in the diagram.</p>  <p>State the values of a and b.</p>	<p>2</p>
<p>Ans</p>	<p>$a = 5$, $b = 4$</p>	
<p>2018 P1 Q12</p>	<p>Given that $\cos 60^\circ = 0.5$, state the value of $\cos 240^\circ$.</p>	<p>2</p>
<p>Ans</p>	<p>-0.5</p>	
<p>2015 P1 Q6</p>	<p>Part of the graph of $y = a \sin bx^\circ$ is shown in the diagram.</p>  <p>State the values of a and b.</p>	<p>2</p>
<p>Ans</p>	<p>$a = 4$, $b = 3$</p>	

2015 P1 Q9	<p>Write the following in order of size starting with the smallest.</p> <p>$\cos 90^\circ$ $\cos 100^\circ$ $\cos 300^\circ$</p> <p>Justify your answer.</p>	2
Ans	<p>$\cos 100$, $\cos 90$, $\cos 300$ Demonstrate that $\cos 100 < 0$, $\cos 90 = 0$ and $\cos 300 > 0$ using either the trig. graph or the ASTC diagram.</p>	
2015 P2 Q8	<p>Part of the graph of a trigonometric function is shown below.</p>  <p>State the period, in degrees, of this function.</p>	1
Ans	<p>120°</p>	

2014 P1 Q10

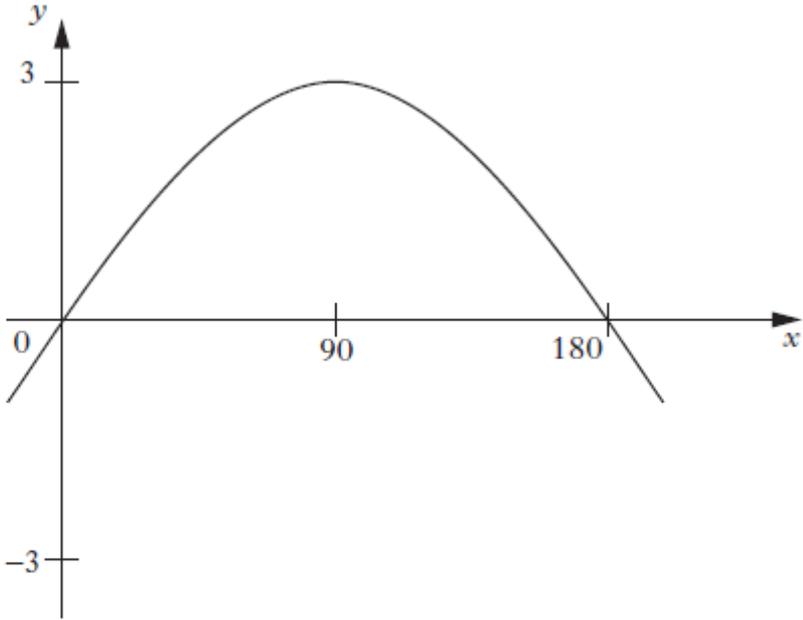
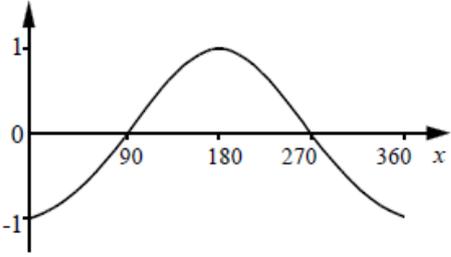
The graph of $y = a \sin(x + b)^\circ$, $0 \leq x \leq 360$, is shown below.



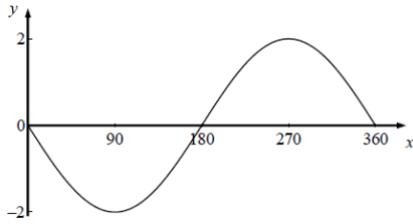
Write down the values of a and b .

2

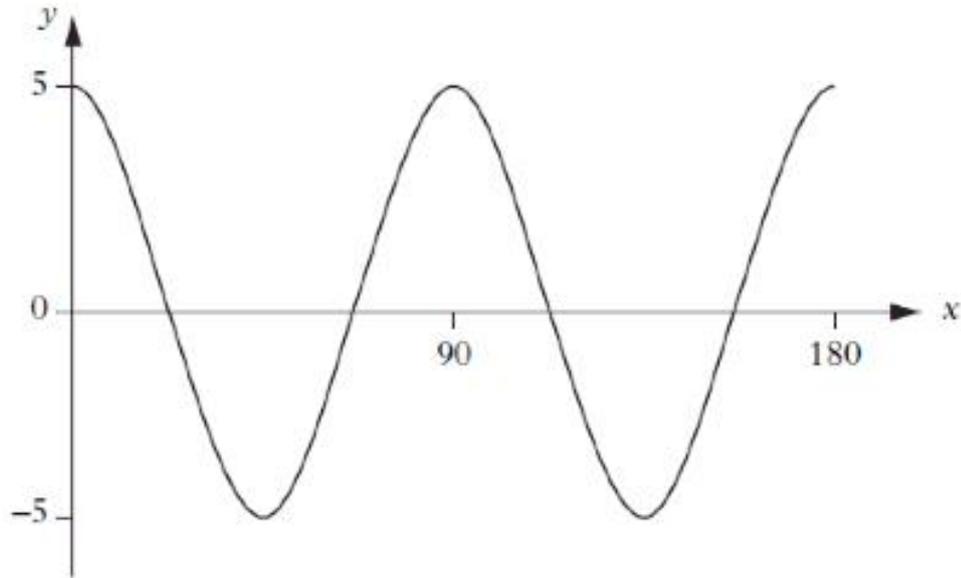
Ans $a = 3$, $b = -40$

2014 P1 Q7	 <p>Part of the graph of $y = a \sin bx^\circ$ is shown in the diagram. State the values of a and b.</p>	2
Ans	$a = 3 \quad b = 1$	
2013 P1 Q8	State the period of $y = \sin 2x^\circ$.	1
Ans	180°	
2013 P1 Q10	Sketch the graph of $y = \sin (x - 90)^\circ$, $0 \leq x \leq 360$.	3
Ans		
2012 P1 Q9	Sketch the graph of $y = -2 \sin x^\circ$, $0 \leq x \leq 360$.	3

Ans



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

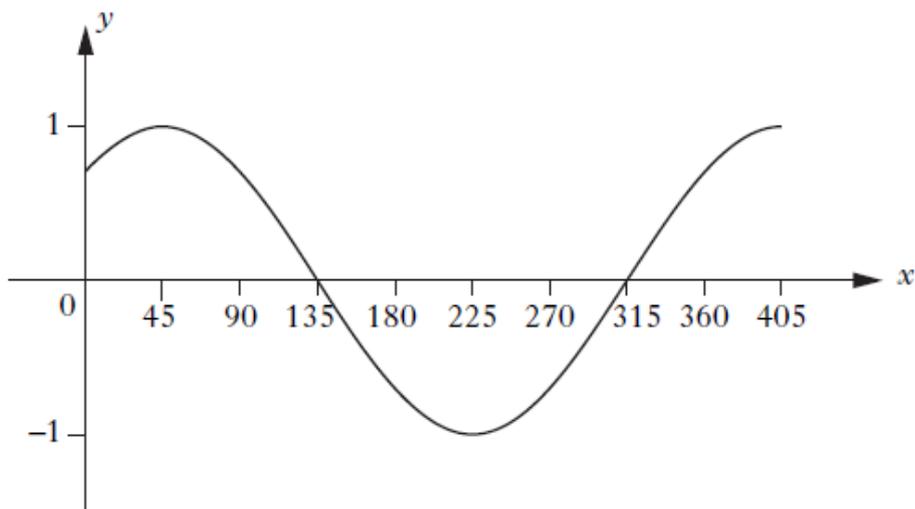


State the values of a and b .

2

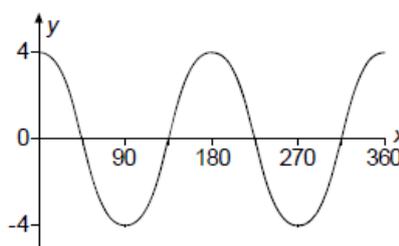
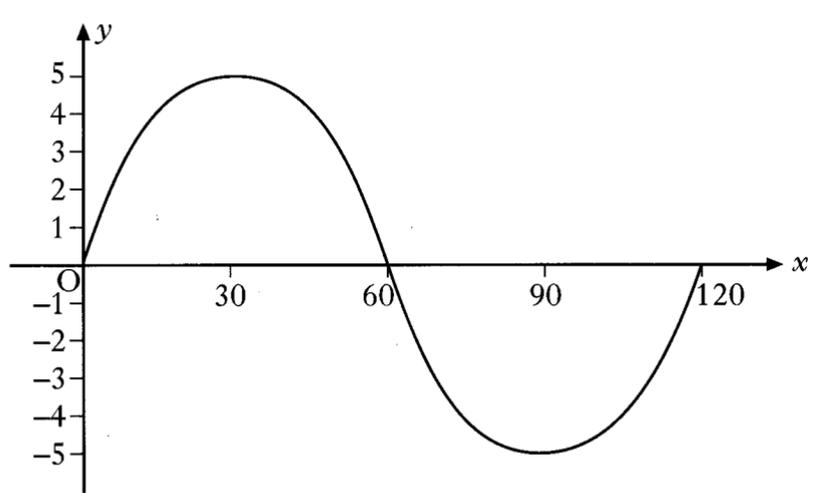
Ans $a = 5, b = 4$

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

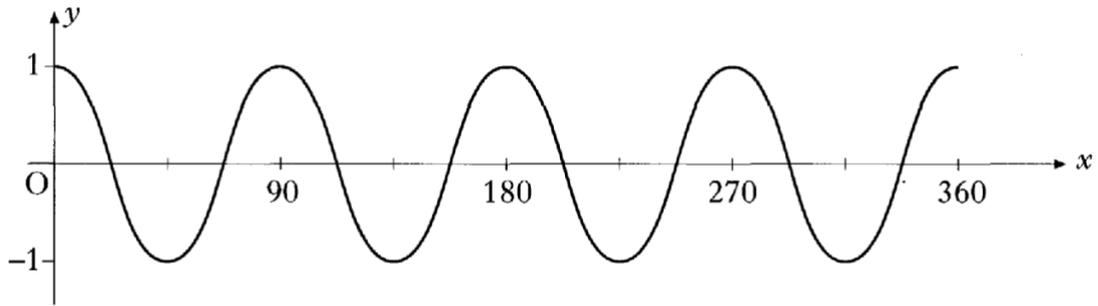


Write down the value of a .

1

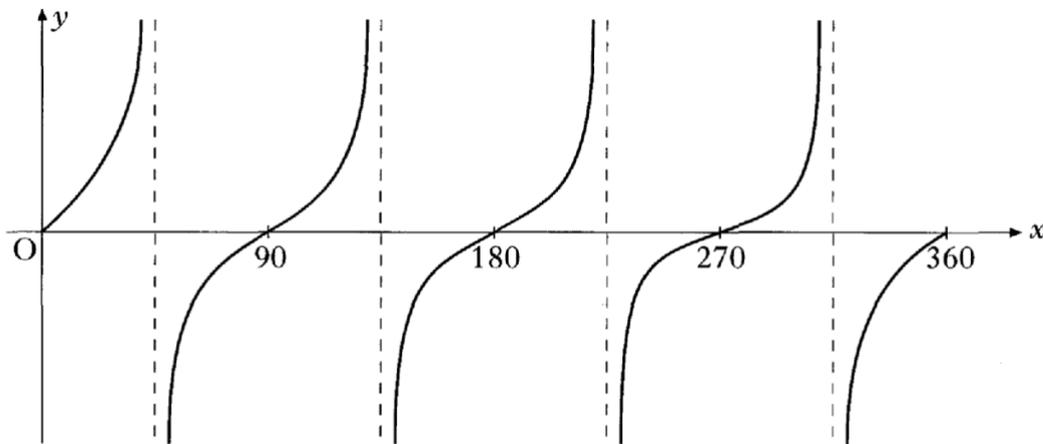
Ans	$a = 45^\circ$	
2009 P1 Q8	Sketch the graph of $y = 4 \cos 2x^\circ$, $0 \leq x \leq 360$.	3
Ans		
2008 P1 Q8	<p>Part of the graph of $y = a \sin bx^\circ$ is shown in the diagram.</p>  <p>State the values of a and b.</p>	2
Ans	$a = 5$ $b = 3$	

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



State the value of a .

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



State the value of b .

1

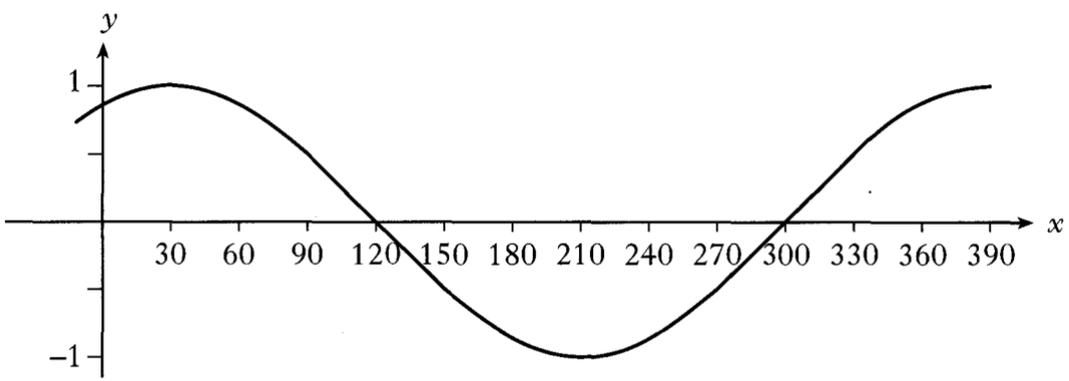
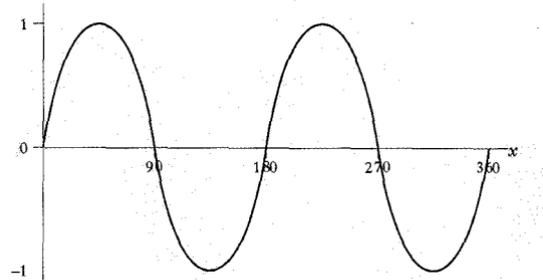
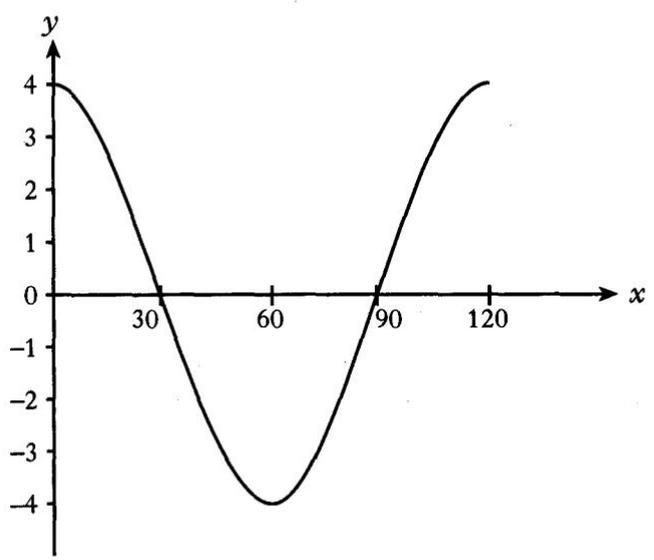
1

2007 P1 Q10

Ans (a) $a = 4$ (b) $b = 2$

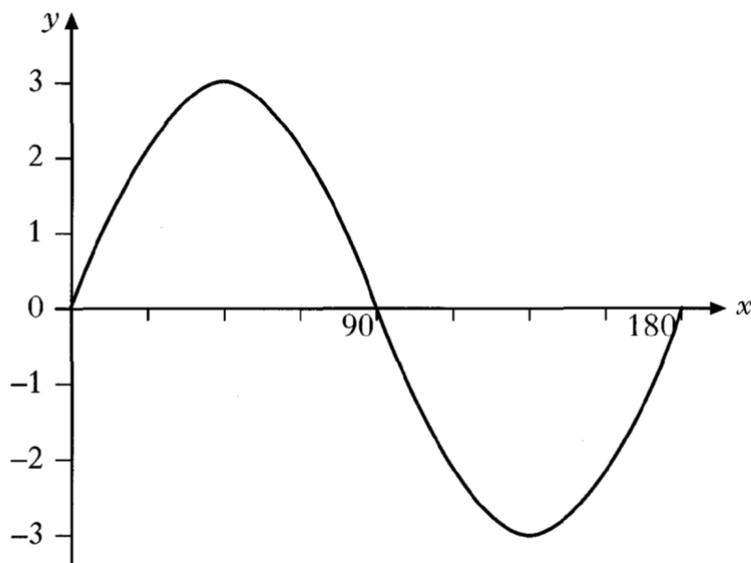
2006 P1 Q6

Ans

2006 P1 Q8	<p>The graph shown below has an equation of the form $y = \cos(x - a)^\circ$.</p>  <p>Write down the value of a.</p>	1
Ans	$a = 30$	
2005 P1 Q7	<p>Sketch the graph of</p> $y = \sin 2x^\circ, \quad 0 \leq x \leq 360.$	3
Ans		
2004 P1 Q6a	<p>(a) Part of the graph of $y = b \cos ax^\circ$ is shown in the diagram.</p>  <p>State the values of a and b</p>	2

Ans $a = 3$ $b = 4$

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



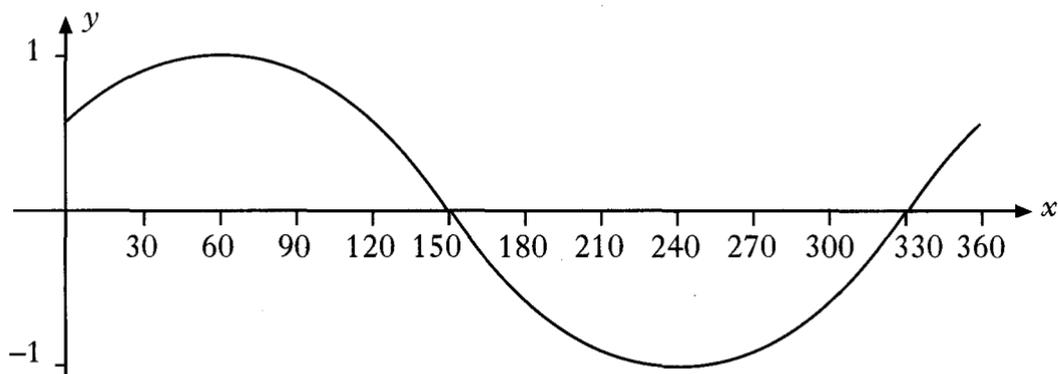
2003 P1 Q5

State the values of a and b .

2

Ans $a = 3$ $b = 2$

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



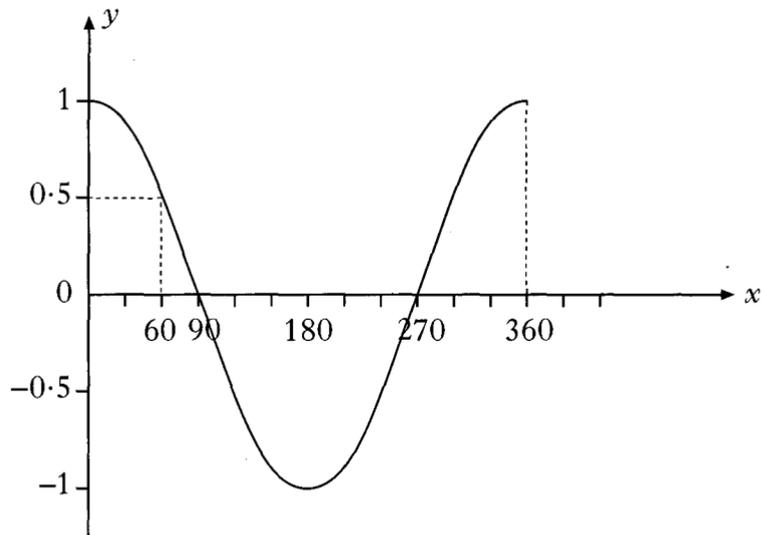
2002W P1 Q6

Write down the value of b .

1

Ans $b = 60$

2002 P1 Q3



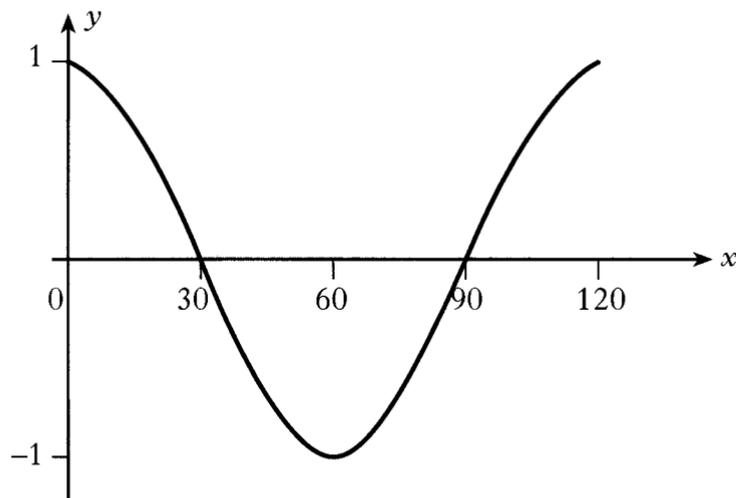
Part of the graph of $y = \cos x^\circ$ is shown above.

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

2

Ans $120^\circ, 240^\circ$

2001 P1 Q6



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

State the value of b .

1

Ans $b = 3$