

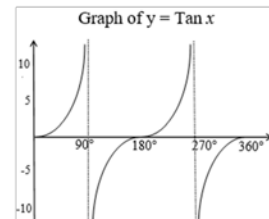
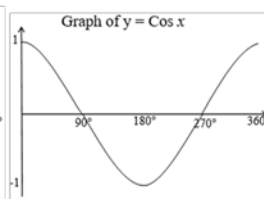
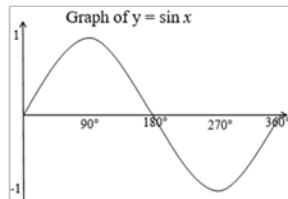


Starter

Using the graphs or otherwise, which of the following are true.

1. $\text{Cos}60^\circ = \text{Sin}30^\circ$
2. $\text{Sin}10^\circ = \text{Cos}80^\circ$
3. $\text{Tan}90^\circ = 1$
4. $\text{Cos}45^\circ = \text{Sin}45^\circ$
5. $\text{Tan}45^\circ = \text{Cos}90^\circ$

Top Tips! Don't forget Max and Min 1 to -1 for Sin and Cos
 Sin start at 0 Cos start at 1
 Tan -infinity to +infinity

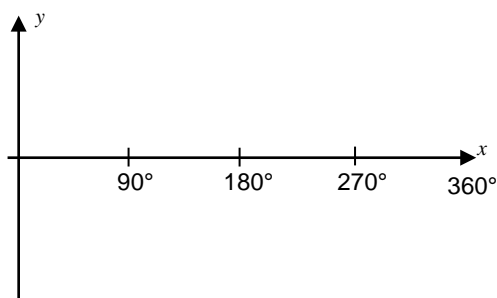


Skills:

1. Complete the table for $y = \cos x$

x	0°	15°	30°	45°	60°	75°	90°
y	1		0.87		0.5		

2. Sketch the graph of $y = \sin x + 2$
 (label the y-axis appropriately)



3. Given the value of

$\text{Sin } 30^\circ = \frac{1}{2}$ $\text{Sin}60^\circ = \frac{\sqrt{3}}{2}$

Write down the value of:

- a. $\text{Sin } -30^\circ = \dots\dots\dots$
- b. $\text{Sin } 210^\circ = \dots\dots\dots$
- c. $\text{Sin } 330^\circ = \dots\dots\dots$

4. Given that $\text{Tan}45^\circ = 1$. Write down as many values as you can for x between 400° and 600° such that $\tan x = 1$

Examination Question:

2014 November Linear P1 Higher Q15

A	$\sin 46^\circ$	E	$\sin 44^\circ$
B	$\sin 146^\circ$	F	$\sin 316^\circ$
C	$\sin 134^\circ$	G	$\sin 224^\circ$
D	$\sin 314^\circ$	H	$\sin 136^\circ$

Sallie and Bethan are playing a game by matching cards of equal value.
 Sallie matches card A with card D.
 Bethan matches card E with card H.
 Who is correct? You must sketch a graph to explain your answer. [3]

Assessment for Learning

Video / QR code

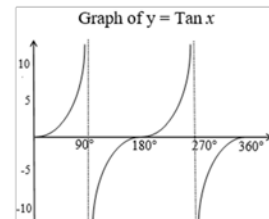
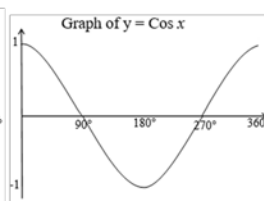
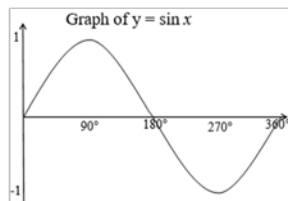


Starter

Using the graphs or otherwise, which of the following are true.

1. $\cos 60^\circ = \sin 30^\circ$ **True (0.5)**
2. $\sin 10^\circ = \cos 80^\circ$ **True (0.17)**
3. $\tan 90^\circ = 1$ **False**
4. $\cos 45^\circ = \sin 45^\circ$ **True (0.707)**
5. $\tan 45^\circ = \cos 90^\circ$ **False**

Top Tips! Don't forget Max and Min 1 to -1 for Sin and Cos
 Sin start at 0 Cos start at 1
 Tan -infinity to +infinity

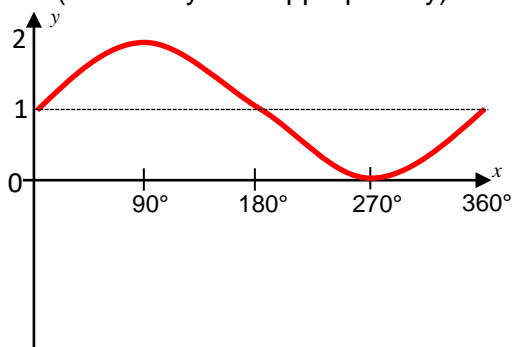


Skills:

5. Complete the table for $y = \cos x$

x	0°	15°	30°	45°	60°	75°	90°
y	1	0.97	0.87	0.71	0.5	0.26	0

6. Sketch the graph of $y = \sin x + 1$
 (label the y-axis appropriately)



7. Given the value of

$$\sin 30^\circ = \frac{1}{2} \quad \sin 60^\circ = \frac{\sqrt{3}}{2}$$

Write down the value of:

a. $\sin -30^\circ = -\frac{1}{2}$

b. $\sin 120^\circ = \frac{\sqrt{3}}{2}$

c. $\sin 300^\circ = -\frac{\sqrt{3}}{2}$

8. Given that $\tan 45^\circ = 1$. Write down as many values as you can for x between 400° and 600° such that $\tan x = 1$ **$405^\circ \dots \text{and} \dots 585^\circ$**

Examination Question:

2014 November Linear P1 Higher Q15

A $\sin 46^\circ$

E $\sin 44^\circ$

B $\sin 146^\circ$

F $\sin 316^\circ$

C $\sin 134^\circ$

G $\sin 224^\circ$

D $\sin 314^\circ$

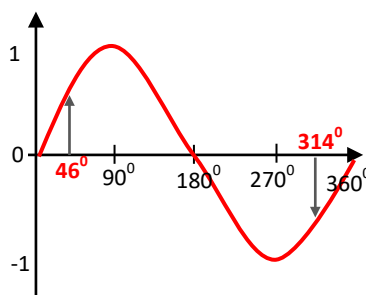
H $\sin 136^\circ$

Sallie and Bethan are playing a game by matching cards of equal value.

Sallie matches card A with card D.

Bethan matches card E with card H.

Who is correct? You must sketch a graph to explain your answer. [3]

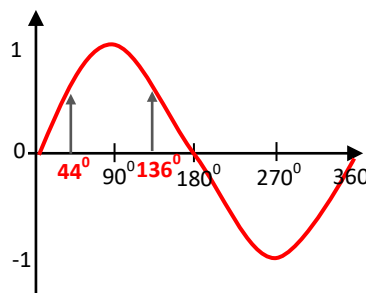


Sallie

A $\sin 46^\circ$ and D $\sin 314^\circ$

Not Correct $\sin 46^\circ$ is a positive value

$\sin 314^\circ$ is a negative value



Bethan

E $\sin 44^\circ$ and H $\sin 136^\circ$

Correct $\sin 44^\circ = \sin 136^\circ$

Equal values - Reflection

Assessment for Learning

Video / QR code