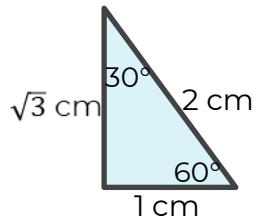


Know the Trigonometry ratios for 0°, 30°, 45°, 60° and 90°

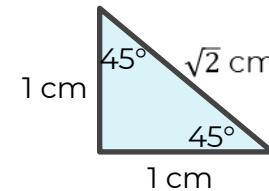


Know the Trigonometry ratios for 0° , 30° , 45° , 60° and 90°

1. Here is a right- angled triangle.



2. Here is a right- angled triangle.



Use the triangle to find the exact values.

- a) $\cos 30^\circ$
- b) $\cos 60^\circ$
- c) $\sin 30^\circ$
- d) $\sin 60^\circ$
- e) $\tan 30^\circ$
- f) $\tan 60^\circ$
- g) Which of the values are the same?

Use the triangle to find the exact values.

- a) $\sin 45^\circ$
- b) $\cos 45^\circ$
- c) $\tan 45^\circ$
- d) Which of the values are the same?



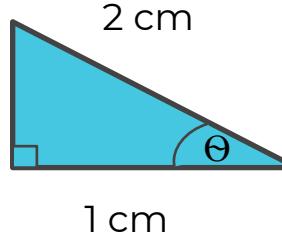
Know the Trigonometry ratios for 0° , 30° , 45° , 60° and 90°

3. Complete the table below.

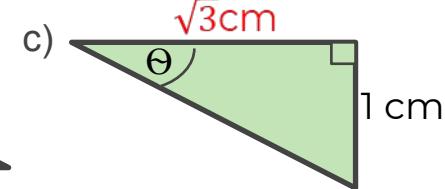
	0°	30°	45°	60°	90°
$\sin(\theta)$					
$\cos(\theta)$					
$\tan(\theta)$					

4. Find the missing angles in the triangles below. Give your answers as exact values.

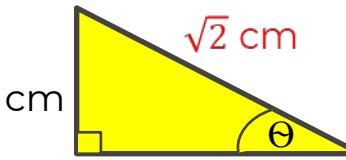
a)



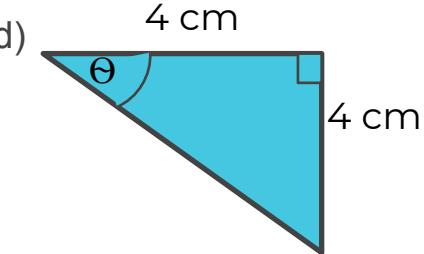
c)



b)



d)

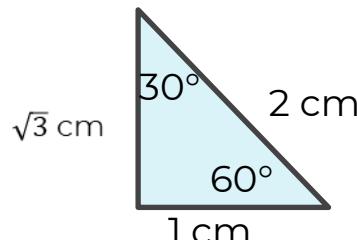


Answers



Know the Trigonometry ratios for 0° , 30° , 45° , 60° and 90°

1. Here is a right- angled triangle.



Use the triangle to find the exact values.

a) $\cos 30^\circ \frac{\sqrt{3}}{2}$

d) $\sin 60^\circ \frac{\sqrt{3}}{2}$

b) $\cos 60^\circ \frac{1}{2}$

e) $\tan 30^\circ \frac{1}{\sqrt{3}}$

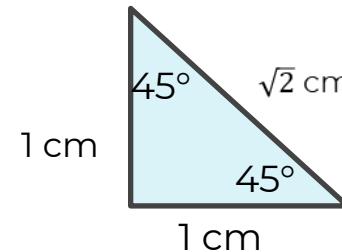
c) $\sin 30^\circ \frac{1}{2}$

f) $\tan 60^\circ \sqrt{3}$

g) Which of the values are the same?

- i) $\cos 30^\circ$ and $\sin 60^\circ$ ii) $\sin 30^\circ$ and $\cos 60^\circ$

2. Here is a right- angled triangle.



Use the triangle to find the exact values.

a) $\sin 45^\circ \frac{1}{\sqrt{2}}$

b) $\cos 45^\circ \frac{1}{\sqrt{2}}$

c) $\tan 45^\circ 1$

d) Which of the values are the same?

$\sin 45^\circ$ and $\cos 45^\circ$



Know the Trigonometry ratios for 0° , 30° , 45° , 60° and 90°

3. Complete the table below.

	0°	30°	45°	60°	90°
$\sin(\theta)$	0	$\frac{1}{2}$	$\frac{1}{\sqrt{2}}$	$\frac{\sqrt{3}}{2}$	1
$\cos(\theta)$	1	$\frac{\sqrt{3}}{2}$	$\frac{1}{\sqrt{2}}$	$\frac{1}{2}$	0
$\tan(\theta)$	0	$\frac{1}{\sqrt{3}}$	1	$\sqrt{3}$	N/A

4. Find the missing angles in the triangles below. Give your answers as exact values.

