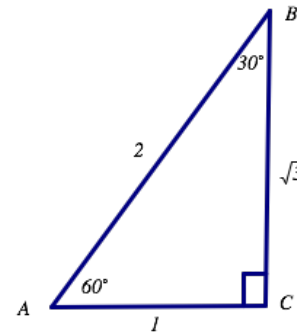


Example 1

Using a 30-60-90° special right triangle, find the sine, cosine and tangent of 30°

Using **SOHCAHTOA**



$$\sin 30^\circ = \frac{\textit{opposite}}{\textit{hypotenuse}} = \frac{1}{2}$$

$$\cos 30^\circ = \frac{\textit{adjacent}}{\textit{hypotenuse}} = \frac{\sqrt{3}}{2}$$

$$\tan 30^\circ = \frac{\textit{opposite}}{\textit{adjacent}} = \frac{1}{\sqrt{3}} = \frac{\sqrt{3}}{3}$$

Example 2

Using the same 30-60-90° special right triangle, find the $\tan 60^\circ$ and the $\cos 60^\circ$.

Using **SOHCAHTOA**

$$\tan 60^\circ = \frac{\textit{opposite}}{\textit{adjacent}} = \frac{\sqrt{3}}{1} = \sqrt{3}$$

$$\cos 60^\circ = \frac{\textit{adjacent}}{\textit{hypotenuse}} = \frac{1}{2}$$