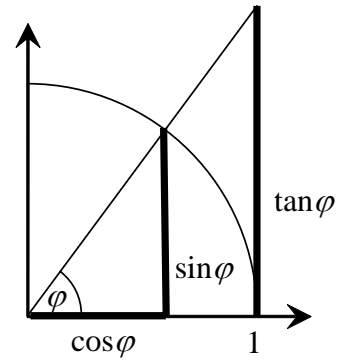


Trigonometry

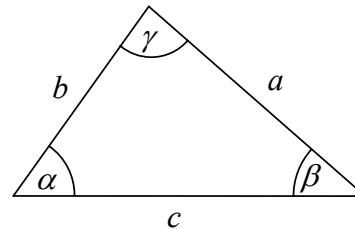
$$\sin^2 \varphi + \cos^2 \varphi = 1, \quad \tan \varphi = \frac{\sin \varphi}{\cos \varphi}, \quad \cot \varphi = \frac{1}{\tan \varphi}$$

φ	0°	30°	45°	60°	90°	120°	150°	180°
$\sin \varphi$ $= \cos(90^\circ - \varphi)$	0	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$	1	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	0



$$\frac{a}{\sin \alpha} = \frac{b}{\sin \beta} = \frac{c}{\sin \gamma} \quad (\text{Law of Sines})$$

$$c^2 = a^2 + b^2 - 2ab \cos \gamma \quad (\text{Law of Cosine})$$



The illustrations are merely included as a visualisation aid and are not true to scale.